

## Registration

Limited to the first 100 registered participants  
Registration fee (non-refundable) is 250 euro/participant  
(accommodation is not included)  
**Reduced fee for EANS members: 175 euro**  
*(please attach copy of EANS membership certification)*

**TO REGISTER, PLEASE E-MAIL YOUR CONFIRMATION TO [nbssymposium@gmail.com](mailto:nbssymposium@gmail.com),**  
including your NAME, INSTITUTION, ADDRESS, EMAIL and PHONE NUMBER

For more information on the Symposium, please contact:  
Dr. med. Thomas Picht  
E-mail: [thomas.picht@charite.de](mailto:thomas.picht@charite.de)

## Venue Sunday

The Nordic Embassies, Felleshus  
Rauchstrasse 1  
D-10787 Berlin

As part of the program, a get-together dinner with  
Scandinavian specialties will be held on Sunday



## Venue Monday

Hotel Pestana Berlin Tiergarten, Stülerstraße 6, 10787, Berlin

As part of the program on Monday lunch will be served; also  
coffee and refreshments are included in the registration fee.

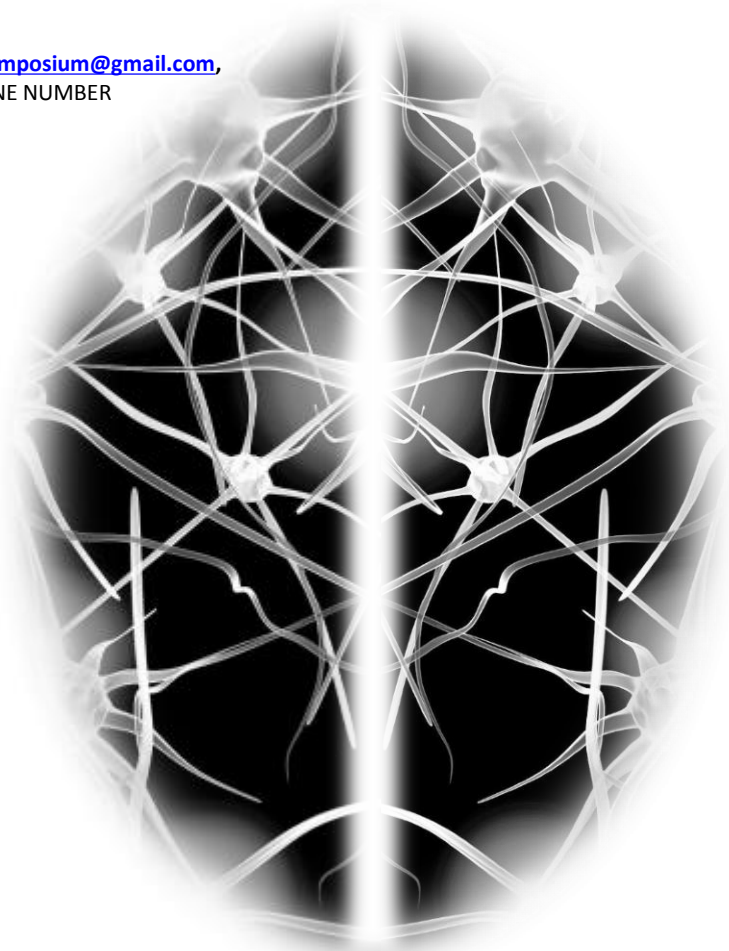
## Accommodation:

Rooms are reserved at special prices at the following hotel until 31.09.2015:  
Hotel Pestana Berlin Tiergarten, Stülerstraße 6, 10787, Berlin, single room 119 euro, double  
room 129 euro (both including breakfast). Please send your reservation request to  
[nbssymposium@gmail.com](mailto:nbssymposium@gmail.com).

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Nexstim

# Navigated Brain Stimulation Neurosurgery & Neuromodulation



# 7<sup>th</sup>

# International Symposium

11<sup>th</sup> – 12<sup>th</sup> October, 2015  
Berlin, Germany

**Second Announcement**



Dear colleagues,

It is our pleasure to invite you to Berlin for the 7<sup>th</sup> International Symposium on Navigated Brain Stimulation in Neurosurgery. Within the last year more scientific evidence was published that improved surgical planning by presurgical navigated TMS mapping offers a clinical benefit to some of our most challenging patients. nTMS mapping does not merely add “more” data, it allows for preoperative risk-benefit balancing based on objective data and improves patient counseling and compliance. Using nTMS data to standardize DTI tractography has vastly improved the clinical value of this technique and supports not only orientation during subcortical tumor resection but also interpretation of intraoperative neurophysiological phenomena. The scientific data strongly support the notion that nTMS motor mapping should be part of standard care for patients with tumors in presumed eloquent location. Also, several papers on nTMS language mapping have further improved our understanding of nTMS language mapping and have addressed the clinical value of this intriguing technique. We have appreciated the increasing relevance of rTMS as a therapeutic tool not only by reserving more time for related presentations but also by including neuromodulation for the first time into the title of the symposium.

As in previous years, we are eager to share our practical experiences with those of you who may not yet have had practical access to the nTMS technology. There will be time for “hands-on” demonstrations and mapping protocol discussions. The Symposium is supported by Nexstim Oyj.

**Welcome to Berlin!**

**Faculty:**

Thomas Picht, Charité/Berlin  
Anna Roethe, HU/Berlin  
Peter Vajkoczy, Charité/Berlin

Florian Ringel, TU Munich  
Sandro Krieg, TU Munich  
Bernhard Meyer, TU Munich

**Call for posters:** A poster session will be held at the Symposium The best three posters will be awarded (500 euro for winner, and 300 and 100 euro each for the runner-ups).

**Please submit your poster by 31.09.2015 to [nbssymposium@gmail.com](mailto:nbssymposium@gmail.com).**

**Hands-on demonstrations of the NBS System with the experts**

You are welcome to bring your own MR-image in DICOM on CD/DVD. Requirements: T1, 3D-MP-Rage, sagittal 1 mm slice thickness, 0 mm slice gap, nose (tip not cropped), forehead, eyes, ears. Angulation < ±10 degrees, if +ve or -ve values are used, do not alter during scan).

**Invited Speakers**

Chervyakov, A (Moscow, Russia)  
Frank, B (Liverpool, UK)  
Islam, M (Stockholm, Sweden)  
Massimini, M (Milan, Italy)  
Mäkelä, T (Helsinki, Finland)  
Naros, G (Tübingen, Germany)  
Nurmikko, T (Liverpool, UK)  
Ostherr, K (Houston, USA)  
Papanicolaou, A (Memphis, USA)

Pulvermüller, F (Berlin, Germany)  
Raffa, G (Messina, Italy)  
TBA (Turku, Finland)  
Senger S (Homburg, German)  
Seidel, K (Bern, Switzerland)  
Szelenyi, A (Düsseldorf, Germany)  
Tarapore, P (San Francisco, USA)  
TBA (Liege, Belgium)  
Ziemann, U (Tübingen, Germany)

**Sunday, October 11 (The Nordic Embassies, Felleshus)**

11.30-12.00  
12.00-12.10  
12.10-12.15

Registration  
Welcome by a Representative of the Finnish Embassy  
Opening of the Symposium (Picht)

**Prologue**

12.15-12.45  
12.45-13.30

**How to Bring Technologies of Tomorrow into Hospitals of Yesterday (Ostherr)**  
NBS Data Integration: Challenges and Solution Strategies  
Karolinska Hospital, Stockholm, Sweden (Islam)  
Helsinki Univ. Hospital, Helsinki, Finland (Mäkelä)  
Charité Hospital, Berlin, Germany (Roethe)

13.30-14.00

Break

**Deciphering Cortico-Subcortical Connectivity**

**Session I: Motor System (Vajkoczy)**

14.00-14.20  
14.20-14.40  
14.40-15.00  
15.00-15.20  
15.20-15.40  
15.40-16.20

IOM Motor – Current Practice (Seidel)  
Individualized Treatment Based on nTMS (Picht)  
The Role of nTMS in Pediatric Neurosurgery (Papanicolaou)  
Latest Experiences of NBS Motor Mapping at UCSF (Tarapore)  
nTMS Impact on Surgical Planning of Intracranial Lesions (Senger)  
3 Selected Poster Abstracts

16.20-16.50

Break

**Session II: Language System (Tarapore)**

16.50-17.20  
17.20-17.40  
17.40-18.00  
18.00-18.20  
18.20-19.00

Language Mapping – the Linguist’s View (Pulvermüller)  
IOM Language – Current Practice (Szelenyi)  
Clinical value of nTMS Language Mapping in Neurosurgery (Krieg)  
TMS-based Tracking of Language Pathways (Raffa)  
3 Selected Poster Abstracts

19.00

**Get-together Dinner**

**Monday, October 12 (Hotel Pestana Berlin Tiergarten)**

**Therapeutic Applications (Massimini, Ziemann)**

09.00-09.30  
09.30-09.50  
09.50-10.10  
10.10-10.30  
10.30-11.00  
11.00-11.20

**TMS in Combination with Other Techniques (Ziemann)**  
TMS-EEG: a reliable read-out of the state of cortical circuits (Massimini)  
Modulation of the Brain Measured by TMS-EEG (TBA)  
Pain Therapy: Mechanisms and Best Practice (Frank)  
rTMS for Stroke Rehabilitation and Pain Management – Patient Stratification (Nurmikko)  
nTMS Therapy for Chronic Tinnitus (TBA)

11.30-12.30

**Lunch**

12.30-12.50  
12.50-13.10  
  
13.10-14.10  
14.10-14.30  
  
14.30-14.45

Closed-loop TMS for Inducing Neuroplasticity of the Motor Cortex (Naros)  
Different types of Navigated rTMS in Treatment of Pharmacoresistant Spasticity (Chervyakov)  
Digital Poster Session  
Join our multicentric work group (Krieg)  
Update on the Contrastim Stroke Study: (Laine)  
Presentation of “Best Poster” Awards and Concluding Remarks (Picht)