



Department of Otorhinolaryngology, Head and Neck Surgery & Institute of Human Communicative Research  
The Chinese University of Hong Kong

Lecture on Transcranial Magnetic Stimulation (TMS)  
2<sup>nd</sup> August, 2015 (Sunday)

Transcranial magnetic stimulation (TMS) is a non-invasive, neurophysiologic method used to stimulate regions of the human brain. It is also an established therapeutic and diagnostic technique in clinical practice. TMS has been used to study intra-cortical, cortico-cortical, and cortico-subcortical interactions, assess causal relations between brain activity and behavior, and investigate the neurophysiologic substrate of the symptoms and pathophysiology of various neurological and psychiatric disorders. In addition, repetitive transcranial magnetic stimulation (rTMS) is able to modulate brain activity beyond the duration of application and to treat different kinds of neuropsychiatric conditions, such as major depression, chronic pain, and epilepsy. In recent years, two TMS devices and protocols have received FDA (Food and Drug Administration, USA) for the treatment of medication-refractory depression and one TMS device has been approved for pre-surgical motor and speech mapping.

Invited guest speaker: Dr. Sebastian Doeltgen

***About the speaker:***

Dr Sebastian Doeltgen is a Lecturer in the Discipline of Speech Pathology and Audiology, Flinders University, Adelaide and Visiting Research Fellow at the School of Paediatrics and Reproductive Health, University of Adelaide, Australia. A speech pathologist with an interest in neurophysiology and former NHMRC Postdoctoral Research Fellow, Sebastian heads a swallowing neurorehabilitation research programme investigating the effects of exercise and experimental brain stimulation on the neural and biomechanical substrates of swallowing. Sebastian was conferred his PhD in 2009 from the University of Canterbury, Christchurch, New Zealand and was awarded the New Zealand Speech Therapy Association's (NZSTA) Doctoral Award (2007) and runner up Dysphagia Research Society (DRS) Young Investigator Award (2008). He is passionate about the development, evaluation and dissemination of evidence-based interventions for use in real world rehabilitation settings. To date, he has published 20 original research articles and contributed to several invited reviews and book chapters. Sebastian is involved in professional education through professional development courses and teaches neuroanatomy and dysphagia sciences to speech pathology students at Flinders University, Adelaide, Australia.

***Organisers:***

Department of Otorhinolaryngology, Head and Neck Surgery, Faculty of Medicine, &  
Institute of Human Communicative Research,  
The Chinese University of Hong Kong

***Target participants:***

Speech Therapists, Audiologist, Physiotherapist, Occupational Therapist, Psychiatrist, Psychologist, Medical Doctor, Nurse, and others.



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***Learning Objectives:***

The objectives of the 1-day lecture are to present:

- Introduction of neuroplasticity, including underlying mechanisms and principles, role of synapses and relevance to health professionals
- Introduction to TMS, rTMS, tDCS paradigms
- Practical consideration of TMS, including risk factors and side effects, subject selection, safety consideration and practical issues
- TMS in human motor control and in cognition

***Proposed Activities:***

- Lecture and presentation
- Video demonstration of TMS

***Date:***

- 2<sup>nd</sup> August, 2015 (Sunday)

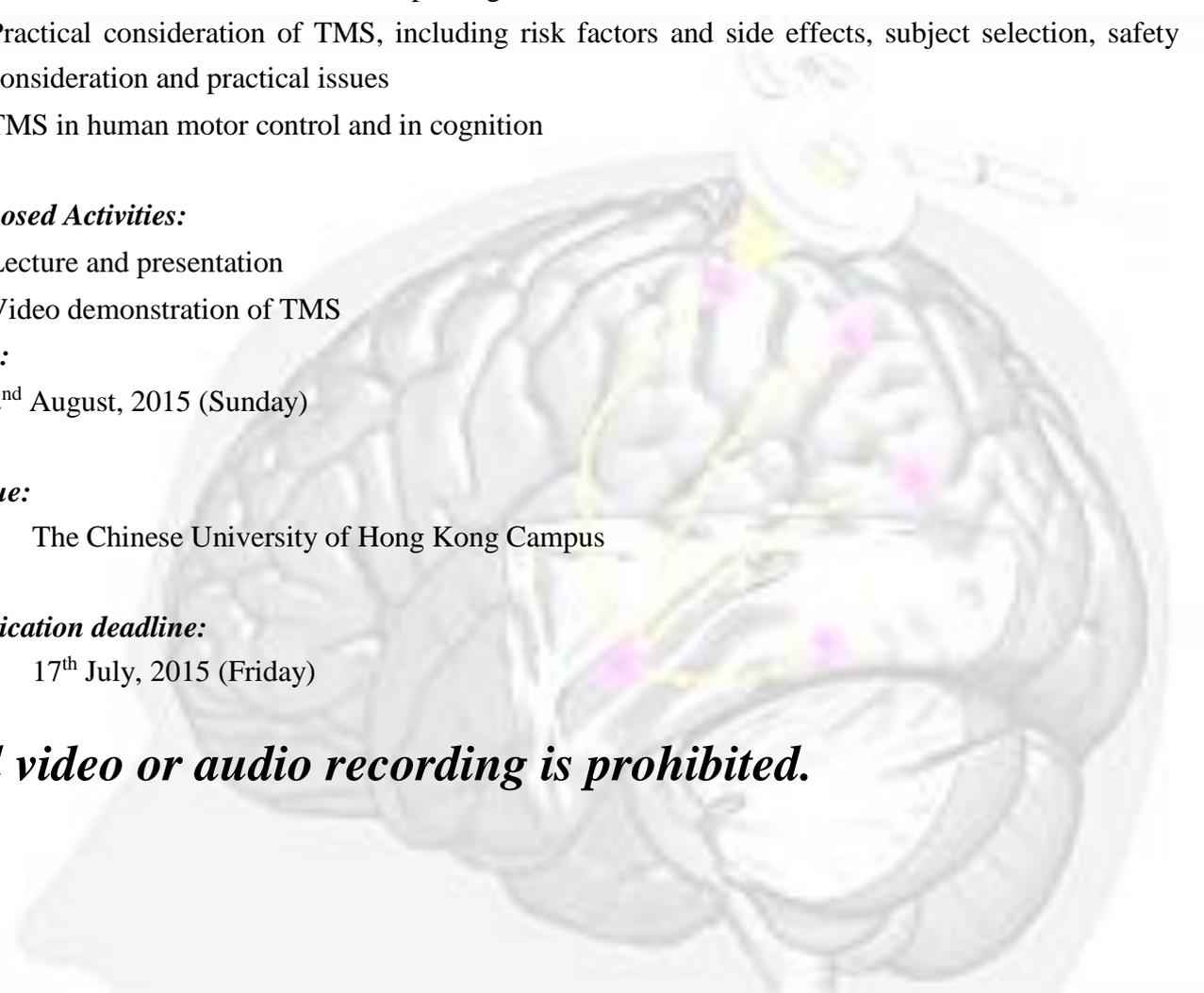
***Venue:***

- The Chinese University of Hong Kong Campus

***Application deadline:***

- 17<sup>th</sup> July, 2015 (Friday)

***All video or audio recording is prohibited.***





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**Enrollment Scheme**

*(Remarks: the lecture will be conducted in English only.)*

|                                     |   |                        |
|-------------------------------------|---|------------------------|
| Date                                | 2 <sup>nd</sup> August, 2015 (Sunday)   |                        |
| Time                                | 8:45am – 5:30pm   |                        |
| Course Fee                          | HK \$1,200 (on or before 6 <sup>th</sup> July, 2015)<br>HK \$1,800 (after 6 <sup>th</sup> July, 2015)   |                        |
| On-line registration                | <a href="https://goo.gl/FajLVf">https://goo.gl/FajLVf</a><br>(please click on this link and register now)   |                        |
| Payment Policy                      | <p>Please note that full payment must be received with the completed registration form.</p> <ul style="list-style-type: none"> <li>All cancellation requests must be made in writing to the Secretariat. The following refund policy will be applied:             <ol style="list-style-type: none"> <li>Postmarked, faxed or email on or before 20<sup>th</sup> July, 2015:                 <ul style="list-style-type: none"> <li>- Refund of registration fee less an administration charge of HK\$450</li> </ul> </li> <li>Postmarked, faxed or email after 20<sup>th</sup> July, 2015:                 <ul style="list-style-type: none"> <li>- No refund</li> </ul> </li> </ol> </li> <li>Should the lecture on TMS scheduled have to be cancelled due to unforeseeable circumstances, the organiser will try and reschedule the programme whenever possible. There will be no refund if a delegate cannot attend the re-scheduled programme. If, for reasons beyond the control of the Organizing Committee, the lecture on TMS is cancelled, registration fees will be refunded after deduction of lecture and workshop expenses already incurred.</li> </ul> |                        |
| Continuous Professional Development | The Hong Kong Association of Speech Therapists  | (To be announced soon) |
|                                     | Hong Kong Hospital Authority Speech Therapists  |                        |
|                                     | Hong Kong Academy of Medicine (Surgeons)  |                        |
|                                     | The Hong Kong College of Psychiatrists  |                        |
|                                     | Hong Kong Psychological Society (CP)  |                        |
|                                     | Hong Kong Academy of Medicine (Physicians)  |                        |
|                                     | Hong Kong Psychological Society (EP)  |                        |
|                                     | Hong Kong Physiotherapists Union  |                        |
| Secretariat                         | <p>Ms. Rina To<br/>Phone: (852) 3943 9609<br/>Fax: (852) 3942 0969<br/>Email: <a href="mailto:speechtherapy@ent.cuhk.edu.hk">speechtherapy@ent.cuhk.edu.hk</a></p>  |                        |