



Department of Neurology, University Medical Centre Ljubljana,  
Zaloška cesta 2, SI-1000 Ljubljana, Slovenia

July 1st - July 3rd 2016

## SHORT SYNOPSIS

During an intensive 3-day course 32 participants will receive in-depth theoretical and practical training in different research applications of EEG in cognitive science and neuroscience. In addition to theoretical lectures, each participant will be instructed in EEG recording methodology by conducting a research-oriented EEG experiment in groups of four participants. Recording subjects will be provided by the organisers. The entire last day will be devoted to hands-on EEG analysis of the gathered data with the BrainVision Analyzer 2 software package. Participants (two per PC workstation) will be guided through the basics of EEG analysis: Artifact rejection, Ocular artifact correction, Filtering, Event Related Potentials, Spectral Analysis and more. The workshop is intended for beginners and complete novices in EEG methodology but intermediate users will find it informative as well.

ONLINE REGISTRATION: <http://howeeg.com/registration>

## ORGANIZERS

**Chair of Neurology, Medical Faculty,**  
University of Ljubljana  
**Laboratory for Cognitive Neuroscience,**  
Department of Neurology,  
University Medical Centre Ljubljana



# SCHEDULE: OVERVIEW

32 participants divided into 4 groups of 8 participants (A, B, C, D)

		A	B	C	D	
1st DAY JULY 1st	08:00	REGISTRATION				
	09:00	LECTURE SERIES 1				
	10:00					
	11:00					
	12:00					
	13:00	LUNCH WITH Q&A				
	14:00	LECTURE SERIES 2				
	15:00					
	16:00					
	17:00					
	18:00					
	19:00					
	20:00	EVENING SOCIAL				
21:00						
2nd DAY JULY 2nd	08:00			EEG RECORDING		
	09:00	LECTURE SERIES 3-A		EEG RECORDING	TMS & EEG	
	10:00					
	11:00	LECTURE SERIES 3-B		TMS & EEG	EEG RECORDING	
	12:00					
	13:00			LUNCH WITH Q&A		
	14:00					
	15:00	EEG RECORDING	TMS & EEG	LECTURE SERIES 3-B		
	16:00					
	17:00					
	18:00	TMS & EEG	EEG RECORDING	LECTURE SERIES 3-A		
19:00						
3rd DAY JULY 3rd	08:00	EEG ANALYSIS 1				
	09:00					
	10:00					
	11:00					
	12:00	LUNCH WITH Q&A				
	13:00					
	14:00	EEG ANALYSIS 2				
	15:00					
	16:00					
	17:00					
	18:00	CLOSING CEREMONY				

# SCHEDULE: DETAILED

## 1st DAY - JULY 1st

### LECTURE SERIES 1

09:00 - 09:15	Greeting .....	Zvezdan Pirtošek
09:15 - 09:45	EEG, Historical perspectives .....	Bogdan Lorber
09:45 - 10:15	Modern clinical applications .....	Bogdan Lorber
10:15 - 10:35	Break	
10:35 - 11:20	Physical and biological basics of EEG signals .....	Jurij Dreo
11:20 - 12:00	Basics of EEG technology .....	Jurij Dreo
12:00 - 13:00	EEG applications 1: Neuropsychiatric pathologies .....	Jure Bon, Andreja Emeršič
13:00 - 14:00	Lunch	

### LECTURE SERIES 2

14:00 - 15:00	EEG/ERP recordings: from theory to practice .....	Gregor Hajšek
15:00 - 15:30	EEG applications 2: Neuropharmacology .....	Andreja Emeršič
15:30 - 15:50	Break	
15:50 - 17:30	EEG applications 3: Cognitive science .....	Bruna Pikš

## 2nd DAY - JULY 2nd

### LECTURE SERIES 3

09:00 - 10:30	Critical analysis of EEG papers .....	Jurij Dreo
10:30 - 11:00	Break	
11:00 - 12:30	Milestone studies 1 .....	Bruna Pikš
12:30 - 13:30	Milestone studies 2 .....	Andreja Emeršič
13:30 - 14:30	Lunch	
14:30 - 16:00	Milestone studies 1 .....	Bruna Pikš
16:00 - 17:00	Milestone studies 2 .....	Andreja Emeršič
17:00 - 17:30	Break	
17:30 - 19:00	Critical analysis of EEG papers .....	Jurij Dreo

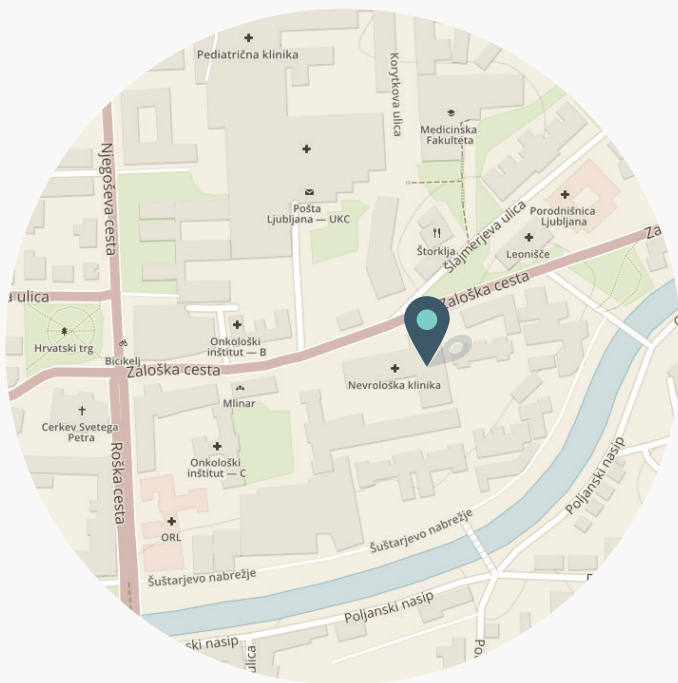
### OTHER ACTIVITIES

per schedule	Transcranial Magnetic Stimulation & EEG .....	Ruben Perellon Alfonso
per schedule	Hands-on EEG recording .....	Bruna Pikš, Andreja Emeršič, Jurij Dreo

## 3rd DAY - JULY 3rd

### EEG ANALYSIS

08:00 - 10:00	EEG Analysis 1-A, Introduction to the software, Basics .....	Jurij Dreo
10:00 - 10:20	Break	
10:20 - 13:00	EEG Analysis 1-B, Spectral analysis, Sensory evoked potentials .....	Jurij Dreo
13:00 - 14:00	Lunch	
14:00 - 15:40	EEG Analysis 2-A, Oscillatory analysis ERS/ERD .....	Jurij Dreo
15:40 - 16:00	Break	
16:00 - 18:00	EEG Analysis 2-B, ICA, EEG Artifacts, Event Related Potentials .....	Jurij Dreo
18:00 - 19:00	Closing ceremony .....	Bruna Pikš, Andreja Emeršič, Jure Bon, Jurij Dreo



GPS COORDINATES: 46°03'08.9"N 14°31'20.8"E

**Department of Neurology**  
University Medical Center Ljubljana, Zaloška cesta 2,  
SI-1000 Ljubljana, Slovenia

## SUPPORTERS

The organizers would like to thank our main industry supporter Brain Products GmbH.



We would also like to acknowledge the support of:

