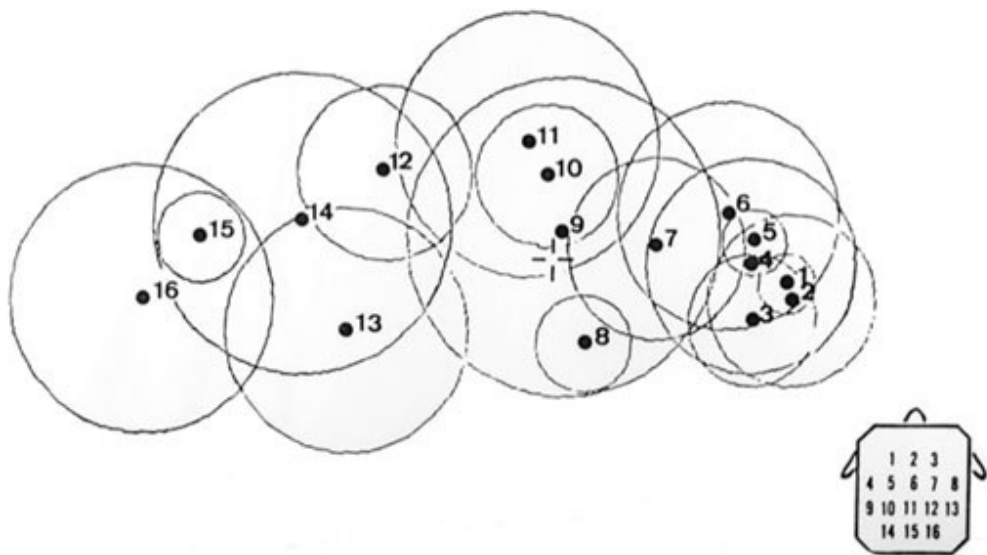


Symposium in memoriam of Dietrich Lehmann (1929-2014)



Zurich, Switzerland

8.11.2014

Dietrich Lehmann was a pioneer of EEG mapping and decades ahead of his time. 45 years ago, he published, together with Derek Fender, a case report on a patient with a split chiasm where dipole source analysis was applied to averaged 48-channel visual evoked potentials. Two years later, in 1971 he published the seminal paper entitled “Topography of spontaneous alpha EEG fields in humans” that ultimately established the term EEG topography and paved the way for innovative spatial analyses of the electric field at the scalp.

Besides his unremitting dedication to the spatial analysis of the EEG, Dietrich’s scientific interest focused on the ongoing fluctuation of the spontaneous neuronal activity of the human brain, its relation to daydreaming, its influence on perception, and its modulation in psychiatric diseases. He discovered that the spontaneous EEG as well as event-related potentials could be divided into continuous segments of stable spatial configurations of the electric field. He named these segments “functional microstates” and proposed that these spatially stationary microstates might be the basic building blocks of information processing, the “atoms of thought”.

The title image is one of the many scientific drawings from his hand. In a figurative sense, this symposium intends to do what the figure suggests; connecting the dots, and outlining the circles that resulted from seminal ideas of his ever investigative and creative mind. We have therefore brought together representative scientific companions of Dietrich from different epochs of his career in order to highlight and integrate the many aspect of his oeuvre. And there will be enough time in and between the sessions to discuss, exchange and connect.

Program

9:00 – 9:15 | Introduction and Welcome

Alexander Borbély | Institute of Pharmacology and Toxicology | University of Zurich
Kieko Kochi | The KEY Institute for Brain-Mind Research | University of Zurich

9:15 – 10:30 | State dependent brain function – history and trends

Functional brain states, state dependent recall and subjectivity

Martha Koukkou Lehmann | The KEY Institute for Brain-Mind Research | University of Zurich

From Multichannel EEG Data to Global Field Power to Microstates

Wolfgang Skrandies | Institute of Physiology | University of Giessen

State dependency of psychiatric symptoms

Thomas Koenig | University Hospital of Psychiatry | University of Bern

10:30 – 11:00 | Coffee Break

11:00 – 12:30 | Microstates and the Stream of Consciousness

Neuronal networks underlying EEG microstates

Christoph Michel | Functional Brain Mapping Laboratory | University of Geneva

Developing Microstates

Daniel Brandeis | Dept. of Child and Adolescent Psychiatry | University of Zurich and
Dept. of Child and Adolescent Psychiatry and Psychotherapy | Central Institute of Mental
Health Mannheim | Heidelberg University

The EEG microstates of the resting state: cortical distributions, dynamics, and the connectome

Roberto Pascual-Marqui | The KEY Institute for Brain-Mind Research | University of Zurich

Microstates, state spaces, states hierarchies

Jiri Wackermann | University of Freiburg

12:30 – 14:00 | Lunch

14:00 – 15:30 | The normal and the altered mind

EEG microstates & modalities of thinking

Patricia Milz | The KEY Institute for Brain-Mind Research | University of Zurich

Brain electric mechanisms during meditation states

Pascal Faber | The KEY Institute for Brain-Mind Research | University of Zurich

Microstates and the suffering mind

Werner Strik | University Hospital of Psychiatry | University of Bern

Neuronal markers of social preferences

Lorena Gianotti | Dept. of Social Psychology and Social Neuroscience | University of Bern

15:30 – 16:00 | Closing Remarks

Star maps in shining sky with deep memory about Prof. Lehmann

Hisaki Ozaki | Ibaraki University

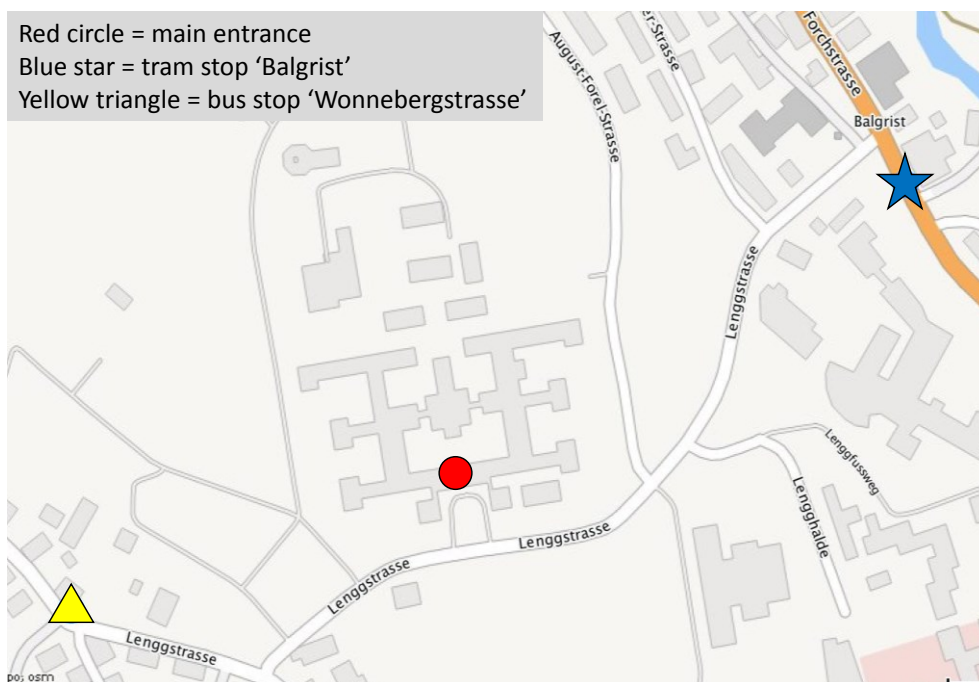
Venue

The symposium will be held in the lecture hall Z103 (Trakt Z, first floor) of the University Hospital of Psychiatry Zurich, Lenggstrasse 31, Zurich.

The venue can easily be reached

- by Tram 11 direction Rehalp until Balgrist
- by the "Forchbahn" S18 direction Forch / Esslingen until Balgrist
- by Bus 77 until Wonnebergstrasse

There is a walk of about 5 minutes from either stop (down from Tram and Forchbahn, up from Bus)



The participation is free.

For organizational purposes, we kindly ask you to send us an email (lorena.gianotti@psy.unibe.ch) if you plan to attend the symposium until the 17. October 2014 with the subject 'Symposium'.

With kind support of the following institutions

