

Workshop 1 “Successful Translation of Neurotechnologies”

Workshop Timetable

45 min slots+15 min breaks

9a-10a

Gerwin Schalk, Ph.D.
Translation of neurotechnologies
Mayo Clinic Rochester, Fudan University

10a-11a

Nuri F. Ince, Ph.D.
Exploring Biomarkers for Implantable Technologies: Insights and Challenges in Neurological Disorders
Mayo Clinic Rochester

11a-12p

Michael Tangermann, Ph.D.
How (not) to translate a BCI rehabilitation approach. A critical view on what role the academic can fulfill.
Donders Institute/Radboud University

12p-1p

Phoenix Peng
Introducing commercial viability in BCI
CEO, NeuroXess

1p-2p

Tim Denison, Ph.D.
Platform Models for Discovery and Translation: Theory and Practice
Oxford University

Abstract

BCI research has provided thousands of demonstrations that interfacing with the brain has the potential to be useful to patients. However, with few exceptions, this research has not yet resulted in solutions that can improve brain-related function of a large number of people. After an initial workshop in Shanghai in 2022, a Satellite Event at the BCI Meeting in June 2023, a Satellite Event at SfN in November 2023, and based on a formal analysis described in a recent article in *Nature Reviews Bioengineering*, we are now proposing another workshop that is dedicated to the question of how to translate neuroscientific achievements into clinically and commercially successful solutions. In this workshop series, world-reknown speakers from academia and industry discuss: 1) neurotechnologies and their historical context; 2) opportunities for translation; 3) scientific, technical, financial, and regulatory challenges; and 4) suggestions for the design, implementation, and optimization of non-invasive and invasive neurotechnologies.

Contact

gschalk@neurotechcenter.org

Ince.Nuri@mayo.edu

michael.tangermann@donders.ru.nl

phoenix@neuroxess.com

timothy.denison@eng.ox.ac.uk