

KEYNOTE SPEAKER

Hugues Duffau

IN DIALOGUE WITH

Olaf Avenati

Horst Bredekamp

Alice Iacobone

Thomas Picht

Jürgen P. Rabe

Patricia Ribault

and the students in art and design from
École Supérieure d'Art et de Design in Reims
and weißensee kunsthochschule berlin

Cluster of Excellence
Matters of Activity
Central Laboratory
Sophienstraße 22a
10178 Berlin

Free admission upon
registration at:



ORGANIZED BY
PATRICIA RIBAUT AND
OLAF AVENATI

This event is part of Berlin Science Week 2023, with the support from the Cluster of Excellence »Matters of Activity. Image Space Material« at the Humboldt-Universität zu Berlin, and the Ambassade de France en Allemagne.



BRAIN ROADS

EXPLORING NEUROPLASTICITY THROUGH ART AND SCIENCE

2 NOV 2023
AT THE CLUSTER OF EXCELLENCE
MATTERS OF ACTIVITY

10AM – 5:30PM

Like the sculptor with marble, neurosurgeons dialogue with the brain they operate on, exploring its inner plasticity. Mapping and representing these »brain roads« can be achieved through various imaging devices and methods. It can also be done with less use of medical imagery. The French Professor in neuro-oncology Hugues Duffau is famous for performing awake surgery with very little technology. He will present his research in a dialogue with the members of the project »Cutting« of the Cluster of Excellence »Matters of Activity«, as well as the students from two art and design academies, one in France, and one in Germany, who produced visual interpretations of his ideas and mode of operation.

PROGRAM

9:45	Public access
10:00	Welcoming remarks by the directors of the Cluster of Excellence Matters of Activity and the Ambassade de France en Allemagne
10:20	Introduction to the Brain Roads project: Patricia Ribault & Olaf Avenati
11:00	Hugues Duffau on neuroplasticity and awake surgery
12:00	Discussion
12:30	Lunch break
13:30	Presentation of the graphic interpretations by the art and design students of the Brain Roads project
14:30	Thomas Picht, on Planning Brain Tumor Surgery
15:00	Coffee break
15:20	Alice Iacobone on the concept of Plasticity in Aesthetics
15:50	Jürgen P. Rabe on the Sensing Knife project
16:20	Horst Bredekamp, on Michelangelo and the Plasticity of marble
16:50	Discussion
17:20	Concluding remarks from Patricia Ribault & Olaf Avenati

SPEAKERS

OLAF AVENATI is a graphic and digital designer in Paris and Professor in graphic and digital design at École Supérieure d'Art et de Design in Reims. He is an Associated Member of the Cluster of Excellence »Matters of Activity«. Within the »Adaptive Digital Twin« research, he is leading the »Brain Roads« project.

HORST BREDEKAMP is an art historian and professor of Art & Image History at Humboldt-Universität zu Berlin. As Senior Co-Director, he leads the Cluster of Excellence »Matters of Activity. Image, Space, Material« together with Peter Fratzl, Claudia Mareis and Wolfgang Schäffner.

HUGUES DUFFAU (MD, PhD) is Professor and Chairman of the Neurosurgery Department in the Montpellier University Medical Center and Head of the INSERM 1051 Team »Plasticity of the central nervous system, human stem cells and glial tumors« at the Institute for Neurosciences of Montpellier (France).

ALICE IACOBONE is PhD candidate in Philosophy at FINO Consortium (Genoa/Turin) and visiting fellow at the Institut für Kunst- und Bildgeschichte at Humboldt Universität zu Berlin, with a dissertation on »Plasticity and Sculpture. Forms, Materials, Imprints«.

THOMAS PICHT is a neurosurgeon, head of the Image Guidance Lab and co-director of the Berlin Simulation and Training Center of the Charité-Universitätsmedizin Berlin. His research group deals with non-invasive brain function diagnostics, connectivity analyses and neuromodulation with the aim of optimally treating brain tumors with individualized therapy concepts.

PATRICIA RIBAULT is Professor for Performative Design Research at the weißensee kunsthochschule berlin since 2020 and Principal Investigator of the Cluster of Excellence »Matters of Activity. Image Space Material« at the Humboldt-Universität zu Berlin. She is also a lecturer at the École Nationale Supérieure des Beaux-Arts in Paris.

JÜRGEN P. RABE has been Professor of the Physics of Macromolecules at the Department of Physics at Humboldt-Universität zu Berlin since 1994. His research aims to correlate the structure and dynamics of molecular systems at interfaces with mechanical, electronic, optical and (bio)chemical properties. He is also the Founding Director of the Integrative Research Institute for the Sciences – IRIS Adlershof at HU Berlin.

Anne De Mauregard, Lilly Drosch, Élisabeth Dubosc, Alexandru Ganea, Ash George, Marieke Herbst, Mado Lecroart, Antoine Sigur, Inyeong Song, Tal Snizcer, Leo Ullrich, and Jelisa Weber are the art and design students of the Brain Roads project.