



David Freedberg



Danny Reible

Research Workshop and Lecture Series academic year 2020-2021

THE ARTFULL BRAIN II

Examined by The Biology of Mind,
Neuroaesthetics, and Semeiotic

October 26, 2020 | 12 p.m. (CT), 1 pm (ET)
Digital Conference

Zoom:
Join Zoom Meeting
<https://texastech.zoom.us/j/92896714458>

Meeting ID: 928 9671 4458

Lecture 1

David Freedberg

(Columbia University, The Italian Academy for
Advanced Studies)

"On the Biology of Mind. Bridging the Two
Cultures: Creativity and Reasoning."

Lecture 2

Danny Reible

(Texas Tech University. Donovan Maddox
Distinguished Engineering Chair, College of
Engineering)

"Why Do We Need Reflective Engineers and
How Art Can Contribute to Their Education?"

Panel Discussion

"Reflectivity and Relational Reasoning in Arts
and Sciences."

With the participation of invited guests, and
Institute members Kenneth Ketner, Michael
O'Boyle, Elize Bisanz.

Chair: Elize Bisanz, Institute Director

THE ARTFULL BRAIN

The research conference targets two major
fields of brain study from the interdisciplinary
perspective of Semeiotic:

a) Neuroaesthetics, a field that pursues questions
such as How knowledge of basic brain mechanisms
might inform our understanding of aesthetic
experiences? and How we might explore the
neural processes—mostly experiences that
include perception, interpretation, emotion,
and action—underlying our appreciation and
production of beautiful objects and artwork?

b) The second field is the widely discussed Biology
of Mind, another emerging research activity
across the disciplines of behavioral psychology,
cognitive psychology, neuroscience, and
molecular biology. It studies the structures of
Mind, Brain, Feelings and Consciousness, the
Cognitive Architecture of the mind, and the
how and why of specific functions.

The convergence between Neuroaesthetics and
Biology of Mind within the science of Semeiotic
is the primary scientific motivation of the
research workshop. A study by the Institute's
Interdisciplinary Seminar on Peirce has distin-
guished between multiple forms of neural
relations and connections where Semeiotic was
implemented to identify their structural
features. Results from the workshop will include
targeting questions concerning how different
scientific issues such as aesthetic perception or
cognitive information processing can be
combined for a better understanding of the brain.



The Institute for Studies in Pragmaticism is the first and oldest organized center for research on the life and works of American physicist, mathematician, logician and engineer Charles Sanders Peirce (1839-1914), one of the greatest interdisciplinary scientists in history. Founded during the 1971-72 academic year at Texas Tech by Charles S. Hardwick and Kenneth L. Ketner, its mission is to facilitate study of the life and works of Peirce and his continuing influence within interdisciplinary science.

www.pragmaticism.net

Conference information and contact:

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BACKGROUND

The field of Brain Studies has advanced to be a leading scientific area for current research. Consider The National Brain Initiative with participation from public federal government agencies, private industry, nonprofit organizations, foundations, colleges, and universities that have the common goal to understand the inner life of the “human mind.” These groups also support and coordinate edge research across disciplines to prevent or cure brain disorders. These efforts testify to the urgency of understanding mind, and to the prevailing scientific goal of advancing study of the brain using interdisciplinary methods.



LECTURE 1

David Freedberg is Pierre Matisse Professor of the History of Art at Columbia University and Director of The Italian Academy for Advanced Studies in America.

Long committed to cross-disciplinary work in the sciences and the arts, Dr. Freedberg established the Art, Humanities and Neuroscience project in 2001 at the Italian Academy for Advanced Studies in America. The aim of the project—and of its successful biannual conferences on cutting-edge topics relevant to the understanding of art, music, vision and emotion—has been to encourage critical thinking about the methodological and epistemological paradigms underlying each domain. Freedberg’s work is pioneering in the advancement of Interdisciplinary Scientific Methods.

David Freedberg is a Fellow of the American Academy of Arts and Sciences and of the American Philosophical Society, as well as the Accademia Nazionale di Agricoltura, and the Istituto Veneto di Scienze, Lettere e Arti. He has served as the director of the Warburg Institute at The University of London from 2015-17.

His rich list of publications reflect his expertise on several fields of study.

<http://www.columbia.edu/cu/arhistory/faculty/Freedberg.html>

LECTURE 2

Dr. Reible is the Donovan Maddox Distinguished Engineering Chair and Paul Whitfield Horn Professor at Texas Tech University. He was previously the Bettie Margaret Smith Chair of Environmental Health Engineering at the University of Texas. Dr. Reible has been active in technical and policy issues associated with the assessment and in-situ remediation of contaminated sites. He has coauthored nine National Research Council committee reports and served on the Board of Environmental Studies and Toxicology. He is a Board Certified Environmental Engineer, a Professional Engineer (LA) and in 2005 was elected to the National Academy of Engineering for the “development of widely used approaches for the management of contaminated sediments”.

His recent project explores new territories in using innovative methods, informed by arts and humanities education, to help young engineers become more reflective thinkers who have greater awareness of the complex contexts of their field.

DREAM: an NSF project Developing Reflective Engineers through Artful Methods. Members: Danny Reible, Ryan Campbell, Jeong-Hee Kim, Chongzheng Na, Roman Taraban.

https://www.depts.ttu.edu/ceweb/faculty/danny_reible/index.php

