



UNIVERSITY OF VERONA
DEPARTMENT OF NEUROLOGICAL, NEUROPSYCHOLOGICAL, MORPHOLOGICAL
AND MOTOR SCIENCES
Section of Physiology and Psychology

PhD SCHOOL "SCIENCE ENGINEERING MEDICINE"
PhD Program in PSYCHOLOGICAL AND PSYCHIATRIC SCIENCES
PhD Program in NEUROSCIENCE



ASSOCIAZIONE PER LE NEUROSCIENZE
"GIUSEPPE MORUZZI"

**Seminars in PSYCHOLOGICAL and PSYCHIATRIC SCIENCES
and
NEUROSCIENCE**

**Friday, July 6, 2012
at 11:30 a.m.
Room "F" – Istituti Biologici**

Diane M. Beck, PhD

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Department of Psychology
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University of Illinois*

Title of the Seminar

"Decoding Natural Scenes"

Abstract: Human beings are surprisingly adept at extracting the gist from natural scenes, even with extremely brief exposures. How does the brain so quickly categorize such complex and cluttered stimuli? We use both behavioral methods and fMRI pattern analysis to address this question. Specifically, using statistical learning techniques borrowed from computer science, we have been able to decode scene category throughout visual cortex, including primary visual cortex and the parahippocampal place area (PPA). Moreover, across a range of experiments we have found that decoding, particularly in later visual areas, mirrors human behavior. These data not only provide insight into the brain regions involved in natural scene categorization but also the features critical to our ability to categorize the scenes

Everyone is welcome to attend

For further information please contact Prof. Carlo Alberto Marzi
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