

**CONTINUING MEDICAL EDUCATION
SPONSORED BY
ALBERT EINSTEIN HEALTHCARE NETWORK
- GRAND ROUNDS -**



**and Moss Rehabilitation Research Institute
PRESENT**

**Patricia Mary Gough, MSc
Dept of Exp. Psychology, University of Oxford**

**Transcranial Magnetic Stimulation (TMS) and its application to the
Cognitive Neuroscientific study of Language.**

TMS is a relatively recent technique and was first used with human subjects by Barker and colleagues (Barker et al, 1985). Unlike many other methods used in human cognitive neuroscience, it allows the experimenter to interfere with processing in the brain at sites and at times of their choosing. This stands in contrast to other approaches such as studies of patients, where lesions are rarely confined to particular anatomical regions, or the use of imaging techniques such as PET or fMRI, where measures that suggest involvement of particular brain regions in behaviours are purely correlative. TMS allows us to test whether an area of cortex is necessary for a particular function. The talk will examine the use of the TMS technique in questions about the neural underpinnings of language processing. The focus will be on work examining the contribution of the frontal lobe to these processes.

Wednesday, September 13, 2006

3:30 p.m. to 5:00 p.m.

Place: Korman Bldg. – Ground Floor Conference room

Upon completion of this activity, the participant should be able to:

1. Understand the transcranial magnetic stimulation (TMS) method.
2. Understand the advantages of the technique in comparison with other cognitive neuroscience methods.
3. understand how the technique has been applied previously to questions of language processing in the brain and thus an understanding of possible applications of the technique to other questions.

Accreditation Statement: Albert Einstein Healthcare Network is accredited by the Pennsylvania Medical Society to sponsor Continuing Medical Education for Physicians.

Credit Designation Statement: Albert Einstein Healthcare Network designates this CME Activity

for up to a maximum of 1 credit hours of Category 1 credit toward the AMA Physicians Recognition

Award, and the Pennsylvania Medical Society membership requirement. Each physician should claim only those hours of credit that he/she actually spent in the educational activity.

Disclosure Statement: It is the policy of Albert Einstein Healthcare Network to insure balance, independence, objectivity and scientific rigor in all its sponsored educational programs. All faculty participating in continuing medical educational programs are expected to disclose to the program audience whether they do or do not have any real or apparent conflict(s) of interest or other relationships related to the content of their presentation(s).