

**Eastern Michigan University**  
Summer Science Research Initiative



# **Principles and Applications of Magnetoencephalography (MEG): A Unique Look Into Your Brain Function**



Dr. Susan Bowyer is a Senior Scientist at Henry Ford Hospital in the Neurology Department.

This lecture introduces students and faculty to the neuroimaging technique known as magnetoencephalography (MEG) that is particularly suitable for capturing the dynamics of our brain. Understanding brain dynamics involved in many perception and cognitive tasks is of particular interest to the fields of psychology and neuroscience. MEG can be used to determine areas of the brain that are functioning abnormally in disorders such as Epilepsy, Schizophrenia and Autism.

**Tuesday, June 16<sup>th</sup> at 11:00**  
**SC 158**

Light refreshments will be provided!  
*SSRI is Sponsored by the College of Arts and Sciences*