

CENTER FOR COGNITIVE SCIENCE

University at Buffalo, State University of New York

Wednesday, March 14, 2001

280 Park Hall
North Campus
2:00 pm –3:30 pm

“Attentional Functioning: The Roles of the Frontal Lobes”

Donald Stuss, Ph.D.

Rotman Research Institute, Baycrest Centre for Geriatric Care
Toronto, Canada

The functions of the frontal lobes have been difficult to differentiate. Terms such as supervisory system and executive control have been used. Recently, the fractionation of frontal lobe functions has been demonstrated. In this presentation, a model of the functions of the frontal lobes in attention will be presented, based on a modified version of the Supervisory Attentional System of Shallice. Various attentional tasks assessing hypothesized frontal lobe attentional functions were presented to patients with lesions in various regions of the frontal lobes as well as to patients with non-frontal lesions. These tasks include the Stroop, feature integration decision reaction time tasks, and a "select-what, respond-where" paradigm. The results indicate that the anterior attentional system is a complex interaction of distinct attentional processes, related to different regions of the frontal lobes, and integrated with posterior brain regions.

**Refreshments will be available
Everyone is welcome to attend!**

For information please call the Cognitive Science Office at (716) 645-3794 or check
<http://wings.buffalo.edu/cogsci>