

## COURSE DESCRIPTION

Extraordinary advances in neuroscience are accelerating progress in the theory and practice of modern psychiatry. Keeping abreast of this progress requires that clinicians equip themselves with a new vocabulary, knowledge of new research tools and the most up-to-date concepts regarding the elegant workings of the human nervous system. This course was expressly designed to help you, the clinician, achieve these goals.

This course is for clinicians in practice who are eager to remain abreast of the cutting edge in our field. More than ever, we have chosen faculty whose attention to crystal clear teaching conveys the excitement sweeping across the frontiers of psychiatry.

Our plain-talking lecturers will guide course participants through an understanding of neurotransmitter systems, neuroimaging technology, and integrated models of specific psychiatric diseases (e.g., schizophrenia, major depression, substance abuse disorders, and Alzheimer's disease).

19 Category 1 Credits.\*

## OBJECTIVES

Upon completion of this program, the participant will have an understanding of the following:

- The functional neuroanatomy of the brain as it relates to the neural basis of abnormal behavior.
- How neuroimaging techniques work, what they measure and what knowledge can be gained from the use of this technology.
- Research methods used by cognitive neuroscientists to study the neural correlates of mental states and cognitive process.
- The role of the anterior cingulate gyrus in normal brain function and in psychiatric disorders.

Release date: April 1, 2003      Credits expire: April 1, 2006

Recorded at the live courses,  
June 20-22, 2002 and April 7-9, 2000

*\*CME credit is obtained upon successful completion of a self-assessment examination. Examination due by April 1, 2006.*

**Neuroanatomy:  
Cells and Circuits**  
Stephan Heckers, M.D.

**Neuroendocrinology**  
Rachel Yehuda, Ph.D.

**Cognitive Neuroscience:  
From Molecules  
to Behavior**  
Steven E. Hyman, M.D.

**Contemporary Genetic  
Methods for Studying  
Developmental  
Neuropsychiatric  
Disorders**  
David Pauls, Ph.D.

**Behavioral Paradigms:  
From Rodents to Man**  
Neal R. Swerdlow,  
M.D., Ph.D.

**Neuroimaging**  
Scott L. Rauch, M.D.

**The Cognitive  
Neuroscience of Human  
Memory**  
Daniel Schacter, Ph.D.

**Function of the Frontal  
Lobes**  
Cary R. Savage, Ph.D.

**Function of the Basal  
Ganglia**  
Ann Graybiel, Ph.D.

**Amygdala, Ambiguity  
and Anxiety**  
Paul J. Whalen, Ph.D.

**Anterior Cingulate  
Cortex: From Attention  
to Emotion**  
George Bush,  
M.D., M.M.Sc.

**Neuropharmacology of  
the Serotonergic System:  
Diseases and Treatments**  
Pierre Blier, M.D., Ph.D.

**Transcranial Magnetic  
Stimulation (TMS) and  
Deep Brain  
Stimulation (DBS)**  
Benjamin Greenberg,  
M.D., Ph.D.

**Schizophrenia**  
Stephan Heckers, M.D.

**Major Depressive  
Disorders**  
Helen S. Mayberg, M.D.,  
FRCPC

**Substance Use Disorders**  
Scott E. Lukas, Ph.D.

**Alzheimer's Disease**  
Marilyn Albert, Ph.D.

