

# Signa MR Masters Course

## PHYSICIANS' MR TRAINING PROGRAM

Helping you utilize the full clinical benefits of MR's most advanced techniques.

Presents



### Clinical fMRI and DTI at 1.5 and 3.0 Tesla

Keith Thulborn, MD, Ph.D. is a Professor of Radiology, Physiology & Biophysics, and Director of the Center for Magnetic Resonance Research at the University of Illinois at Chicago (UIC).

He has over 20 years of experience in neuroradiology as both clinician and scientist; his assignments have included post-doctoral fellowship at Oxford University, UK, medical internship at Boston Children's Hospital, and radiology residency training at Massachusetts General Hospital and Harvard University. He was involved in the development of the first clinical 3T MRI scanner with GE Medical Systems in 1993 and has used 3T as the basis for all his subsequent research and clinical activities in fMRI. These activities have resulted in numerous publications and invited national and international presentations on fMRI.



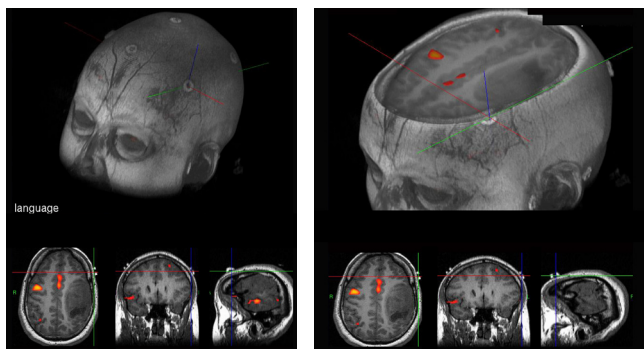
This two-day program covers all aspects of clinical fMRI and DTI for both the neuroradiologist wanting to provide integrated interpretations of functional, physiological and anatomic imaging and the MR technologist wanting to use these advanced neuro-applications.

The course is based on hands-on experience for both physicians and technologists at the scanner (GE Healthcare Signa HDx 3.0T) and workstations in acquiring and processing the data. There are comprehensive case discussions of real clinical cases to build confidence in clinical interpretation. Hardware and software choices, imaging protocols, patient preparation and other aspects of clinical service are highlighted to allow attendees to implement a successful advanced neuro-imaging service.

A syllabus is provided that includes quality assurance protocols, imaging protocols and reading materials.

This course is limited to small groups of no greater than 10 individuals to ensure that all attendees have maximum opportunity to discuss numerous cases and build their skills at the scanner.

The course is based on a clinical experience of hundreds of patient fMRI studies over the last 6 years.



Day One – Saturday	Day Two - Sunday
8:00 - 9:30 Didactic Lecture: Basics of BOLD contrast for the Clinical Service, Patterns and Paradigms	8:00 - 9:30 Didactic Lecture: Basics of DTI for the Clinical Service, Patterns and Pitfalls, Quality Assurance
9:30 - 10:00 Coffee Break	9:30 - 10:00 Coffee Break
10:00 - 12:00 Hands-On: The Patient Experience, fMRI and DTI set-up, training and acquisition	10:00 - 12:00 Skill Development: Routine Case Discussions
12:00 - 1:00 Lunch	12:00 - 1:00 Lunch
1:00 - 2:00 Hands-On: Data Processing and Interpretation of Clinical fMRI Paradigms	1:00 - 2:00 Skill Development: Advanced Case Discussions
2:00 - 2:30 Coffee Break	2:00 - 2:30 Coffee Break
2:30 - 5:00 Hands-On: Data Processing and Interpretation of Clinical DTI	2:30 - 5:00 Review: Questions and Answers: Launching a Clinical fMRI & DTI Service

Who should enroll: Radiologists, MR Technologists, Neurosurgeons

To enroll: Fax registration form to: **262-997-1316** or E-mail registration to: [Donna.Granger@med.ge.com](mailto:Donna.Granger@med.ge.com)  
Questions, call Donna Granger **262-521-6420**. Cancellations must be made two weeks prior to course date

See our website at: <http://www.gehealthcare.com/usen/mr/education/products/physiciantrain.html>

