## Schedule - Friday, July 17, 2015

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>9:00 am</td>
<td><strong>Introduction</strong>&lt;br&gt;Mark Richardson, MD, PhD</td>
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<td>10:30 am</td>
<td><strong>DBS Clinical Trials for Neuropsychiatric Disease: Regulatory and Other Issues</strong>&lt;br&gt;10:35-10:55 National Strategy for Future Trials&lt;br&gt;Joseph Neimat, MD&lt;br&gt;10:55-11:15 Johns Hopkins Experience&lt;br&gt;Stan Anderson, MD, PhD&lt;br&gt;11:15-11:35 Columbia Experience&lt;br&gt;Sameer Sheth, MD, PhD&lt;br&gt;11:35-12:00 Group Discussion Panel</td>
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<td>1:00 pm</td>
<td><strong>Multimodal Aspects of Deep Brain Stimulation Surgery</strong>&lt;br&gt;1:05-1:25 Clinical and Research MER Strategies&lt;br&gt;Wael Asaad, MD, PhD&lt;br&gt;1:25-1:45 STN MER in Era of iMRI, Research Protocols&lt;br&gt;Mark Richardson, MD, PhD&lt;br&gt;1:45-2:05 Potential Role of Tractography in DBS Surgery&lt;br&gt;Jennifer Sweet, MD&lt;br&gt;2:05-2:25 Group Discussion Panel</td>
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<td>2:30 pm</td>
<td><strong>Modern Epilepsy Surgery</strong>&lt;br&gt;2:30-2:50 Responsive Neurostimulation&lt;br&gt;Jason Gerrard, MD, PhD&lt;br&gt;2:50-3:10 Laser Thermal Ablation, Stereo-EEG&lt;br&gt;Panel&lt;br&gt;3:10-3:30 Group Discussion Panel</td>
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<td>3:30 pm</td>
<td><strong>Moving the Field Forward</strong>&lt;br&gt;Identifying Barriers to Progress&lt;br&gt;Panel</td>
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<td>4:00 pm</td>
<td><strong>Adjourn</strong></td>
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Overview
This course will provide an overview of the latest neuroscience related to clinical advances in the neurosurgical treatment of epilepsy, movement disorders and neuropsychiatric diseases.

Objectives
At the conclusion of the program, attendees should be able to:

• Identify novel indications for invasive brain stimulation
• Understand the role of novel brain stimulation techniques and devices
• Evaluate the role of laser thermal ablation and stereo-EEG in epilepsy treatment
• Identify research opportunities in functional neurosurgery and barriers to progress

Who Should Attend
Neurosurgeons, neurologists, psychiatrists, residents and neuroscientists interested in the latest advances in the surgical treatment of movement disorders, epilepsy and neuropsychiatric disease.

Participation by all individuals is encouraged. Advance notification of any special needs will help us provide better service. Please notify us of your needs at least two weeks in advance of the program by calling (412) 864-1839.

Continuing Education Credit
The University of Pittsburgh School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The University of Pittsburgh School of Medicine designates this live activity for a maximum of 5.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Other health care professionals are awarded 0.5 continuing education units (CEU’s) which are equal to 5.0 contact hours.

Course Director
Mark Richardson, MD, PhD
Assistant Professor of Neurosurgery
University of Pittsburgh

Faculty
William S. Anderson, MD, PhD
Associate Professor of Neurosurgery
Johns Hopkins University

Wael Asaad, MD, PhD
Assistant Professor of Neurosurgery
Brown University

Jason Gerrard, MD, PhD
Assistant Professor of Neurosurgery
Yale University

Timothy Lucas, MD, PhD
Assistant Professor of Neurosurgery
University of Pennsylvania

Jonathan Miller, MD
Assistant Professor of Neurosurgery
Case Western Reserve University

Joseph Neimat, MD
Associate Professor of Neurosurgery
Vanderbilt Medical Center

Sameer Sheth, MD, PhD
Assistant Professor of Neurosurgery
Columbia University Medical Center

Jennifer Sweet, MD
Assistant Professor of Neurosurgery
Case Western Reserve University

Registration Information
All registration must be completed online by July 16, 2015:

• Visit our online registration site at https://ccehs.upmc.com/liveFormalCourses.jsf

• Scroll to Neuroscience Updates in Functional Neurosurgery.

• Click the Registration button and enter all the requested information (including an email address) and follow the prompts to submit your registration after entering your payment information.

• After registering, an electronic confirmation will be sent to the email address you provided when you registered. If you do not receive this confirmation, please contact us at (412) 864-1839.

• All cancellations must be in writing and sent to us via email. Tuition for cancellations postmarked or date stamped before July 17, 2015 will be refunded in full. No refunds will be made after this date. Cancellation requests can be made to Natalie Schollaert at schollaertnl@upmc.edu.

Registration Fee
* includes coffee and lunch
Physicians (CME): $50
Nurses/Physician Assistants (CME): $25
Physicians/Nurses/PAs (non-CME): $10
Research Faculty: $10
Postdocs/Students: $5

Meeting Location
Biomedical Sciences Tower 3, Room 6014
3501 Fifth Avenue
Pittsburgh, PA 15260

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All individuals in a position to control the content of this education activity are required to disclose all relevant financial relationships with any proprietary entity producing, marketing, re-selling, or distributing health care goods or services, used on, or consumed by, patients.