

2011 AAP ANNUAL MEETING

APRIL 12-16 Phoenix, Arizona



HIGHLIGHTS & Announcements

COURSE A

Evolving Health Care Reform: Academic Challenges for Clinical Practice

*Upon Completion of this Activity,
Participants will be able to:*

- Analyze how health care reform will affect clinical practice
- Differentiate the types of quality metrics
- Identify new funding opportunities for clinical research
- Describe the challenges of implementing comparative effectiveness research
- Discuss future models for clinical care delivery

COURSE B

Advances in Rehabilitation Technology

*Upon Completion of this Activity,
Participants will be able to:*

- Firmly understand robotic therapies in neuro-rehabilitation
- Share insights into neuro-plasticity following neurologic injury through non-invasive brain stimulation
- Provide an update on the use of neuromodulation techniques for pain control

COURSE C

The Role of Physical Activity in Healthcare: Can Physiatrists Respond to an Unmet Need

*Upon Completion of this Activity,
Participants will be able to:*

- Discuss the literature associating increased physical activity and improved health across a broad variety of medical conditions
- Provide the federal recommendations for weekly physical activity
- Demonstrate the ability to write appropriate exercise prescriptions and utilize motivational interviewing and positive psychology when consulting patients
- Assess personal level of physical activity and understand its effect on writing exercise prescriptions



Alan E. Guttmacher, MD, NICHD Director, will share highlights from the NICHD Vision process relevant to the rehabilitation research community and solicit input from AAP members about what they see as the key scientific opportunities of the next ten years. In collaboration with its many stakeholders, the *Eunice Kennedy Shriver* National Institute of Child Health and Human Development has begun a process to identify the most promising scientific opportunities of the next decade across the breadth of the Institute's mission. The aim of this process is to develop a scientific vision that sets an ambitious agenda and inspires the NICHD, its many partners, and the research community to achieve critical scientific goals and meet pressing public health needs.

In August 2010, Alan E. Guttmacher, M.D. became the Director of the *Eunice Kennedy Shriver* National Institute of Child Health and Human Development. Previously, he served as Acting Director of the Institute, beginning in December 2009. A pediatrician and medical geneticist, Dr. Guttmacher came to the National Institutes of Health in 1999 to work at the National Human Genome Research Institute, where he served in a number of roles, including seven years as the Deputy Director and, from August 2008 to December 2009, as the Acting Director. In those roles, he oversaw the institute's efforts to advance genome research, integrate that research into health care, and explore the ethical, legal, and social implications of human genomics.

For more information about the NICHD Vision process, visit <http://www.nichd.nih.gov/vision/>.

Dr. Guttmacher will follow the DeLisa Lecture and Awards Presentations during the Plenary Session.

Plenary Session - Scientific Paper Awards

Following the DeLisa Lecture, there will be a presentation of the following scientific paper awards:

The Electrode Store Best Papers
Rehabilitation Medicine Scientist Training Program (RMSTP) Best Papers

Neural Plasticity and Direct Brain Interfaces

Michael L. Boninger, MD, Professor and Chair in the Department of PM&R in the University of Pittsburgh School of Medicine has joined Course B - *Advances in Rehabilitation Technology* as a special speaker and will present the topic *Neural Plasticity and Direct Brain Interfaces*. Dr. Boninger is currently the Principal Investigator on a Defense Advanced Research Projects Agency (DARPA) funded study investigating brain computer interfaces in spinal cord injury.



See following page for more exciting Course B additions!



David J. Reinkensmeyer, PhD is a professor in the Department of Anatomy and Neurobiology, the Department of Mechanical and Aerospace Engineering, and the Department of Biomedical Engineering at the University of California, Irvine. He was an associate editor of the *IEEE Transactions on Neural Systems and Rehabilitation Engineering* from 2002-2009, and is currently the chair of the NSF/WTEC International Study on Technology for Mobility.

Professor Reinkensmeyer has joined the 2011 AAP Annual Meeting as a Course B speaker and will present the following Course B - *Advances in Rehabilitation Technology* - topics:

Using Machines to Enhance Motor Learning: Recent Findings That May Improve Both Patient Outcomes and Your Golf Game

Objectives:

- To understand current approaches to using machines to assist in motor learning of skilled movement, include haptic guidance and error amplification
- To understand that machine assistance or perturbation provokes a complex response from the motor system, including possible benefits and disadvantages to learning depending on the skill level of the trainee and the nature of the task
- To be able to identify skills and patient populations that may benefit from machine-assisted learning

Robot-Assisted Neurorehabilitation: Current Status and Future Directions

Objectives:

- To understand results from recent clinical trials in robot-assisted rehabilitation of upper and lower extremity movement
- To be able to critically interpret those clinical results and state benefits and disadvantages of robot-assisted rehab
- To understand possible ways that robotic devices for rehabilitation might be improved and the rationale for those improvements

Mike McLoughlin is the acting Business Area Executive (BAE) for Biomedicine, and Program Area Manager for the Johns Hopkins University Applied Physics Laboratory (JHU/APL) Biomedicine Business Area. He leads world-class teams with a broad range of disciplines to develop, integrate, and transition innovative systems using advanced biomedical technologies to meet the needs of the military. In 2009, Mike assumed leadership responsibilities for Defense Advance Research Projects Agency's (DARPA) Revolutionizing Prosthetics Program (RP) at JHU/APL and is leading efforts to transition use of RP technologies to human subjects. His technical experience includes development of rapidly emerging technologies and sensor systems, technology transfer, program management, signal processing, applied engineering and technology development, aerosol science research, and microbiological laboratory analysis. Mike McLoughlin will present the following Course B topic:

Advanced Upper Extremity Prosthetics

The Defense Advanced Research Projects Agency (DARPA) initiated the Revolutionizing Prosthetics Program in 2005. The overarching goal of this effort is the development of high dexterity prosthetics to improve the lives of soldiers who have suffered amputations. The Johns Hopkins University Applied Physics Laboratory has been leading an effort to develop a high dexterity Modular Prosthetic Limb (MPL) that will provide unprecedented capabilities to amputees. This talk will provide an overview of the Revolutionizing Prosthetics Program, the design approach, and describe the progress that has been occurring in the development of the MPL.



DAILY Schedule

This schedule is subject to change without notice prior to the meeting.
Watch the AAP website at www.physiatry.org for the most up-to-date schedule.



Tuesday, April 12, 2011

Program Coordinators' Workshop	12:00-5:00 pm
TAGME Certification	12:00-5:00 pm
Residency Fellowship and Program Directors' Workshop	12:00-5:00 pm
Residency Fellowship and Program Directors' Dinner	6:00-7:00 pm
Residency Fellowship and Program Directors' Business Meeting/Program	7:00-8:30 pm

Wednesday, April 13, 2011

Residency Fellowship and Program Directors' Workshop	7:30 am-12:00 pm
Program Coordinators' Workshop continues	7:30 am-5:00 pm
Board of Trustees Meeting	8:00 am-12:00 pm
Residents/Fellows/Medical Students Workshop	8:00 am-5:00 pm
Committee Meetings	12:30-2:30 pm
Board of Trustees Meeting Continues	2:30-5:00 pm
RFPD Council 2012 Planning Meeting	3:00-4:00 pm
Fellowship Fair	5:30-7:00 pm
Chair Council Dinner	6:30-7:30 pm
Chief Residents' Workshop	7:00-9:00 pm
Chair Council Meeting and Program	7:30-9:00 pm

Thursday, April 14, 2011

Continental Breakfast for all registered attendees	7:00-8:00 am
Plenary Session	8:00 am-12:30 pm
Awards	
DeLisa Lecture	
The Electrode Store Best Paper Presentations	
RMSTP Paper Presentations	
Lunch for all registered attendees	12:30-1:30 pm
Past Presidents' Lunch	12:30-1:30 pm
Poster Grand Rounds	1:30-2:30 pm
Courses Begin	2:30-5:30 pm
Residents/Fellows Council Meeting & Program	6:00-8:00 pm
Research Council Dinner	6:00-7:30 pm
Medical Student Clerkship Directors' Dinner	6:00-7:30 pm
Research Council Meeting & Program	7:30-9:00 pm
Medical Student Clerkship Directors' Meeting & Program	7:30-9:00 pm
Residents Council Special Event	8:00-10:00 pm

Friday, April 15, 2011

Foundation for PM&R Rehab 5k Run/Walk and Roll	6:30-7:30 am
Continental Breakfast for all registered attendees	7:00-8:00 am
BAAR Meeting	7:00-8:30 am
Courses continue	8:00-10:30 am
Presidential Address	11:00 am-12:00 pm
Lunch for all registered attendees	12:00-1:00 pm
Residents/Fellows Council Transition Meeting	12:00-1:00 pm
Foundation Board Meeting	12:00-3:00 pm
<i>American Journal of Physical Medicine & Rehabilitation</i> Editorial Board Meeting	12:00-3:00 pm
Poster Grand Rounds	1:00-2:00 pm
Scientific Paper Presentations	2:00-3:30 pm
Courses continue	3:45-5:30 pm
Resident Fellowship Panel	4:30-5:30 pm
<i>American Journal of Physical Medicine & Rehabilitation</i> Editorial Board Reception	5:00-6:30 pm
Presidents' Reception	7:00-9:00 pm

Saturday, April 16, 2011

APEC Meeting	7:30-9:30 am
Courses Continue	8:00 am-12:00 pm
Medical Student Information Roundtable	10:00 am-12:00 pm
General Business Session with Lunch	12:00-1:00 pm
Courses continue	1:00-4:30 pm
Board of Trustees Wrap-up	2:30-5:00 pm

Register online at www.physiatry.org