

**American Society for Stereotactic  
and Functional Neurosurgery**

**2010  
Biennial Meeting**

**June 13–16, 2010**

New York Marriott Downtown  
New York, NY



american society for stereotactic  
and functional neurosurgery



American  
Association of  
Neurological  
Surgeons

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# Meeting Directors



**Philip Starr, MD, PhD**  
**ASSFN President**  
Professor of Neurological Surgery  
University of California  
San Francisco, CA



**Michael Schulder, MD**  
**Meeting Chairman**  
Vice Chairman, Department of Neurosurgery  
North Shore LIJ Health System  
Manhasset, NY



**Jaimie Henderson, MD**  
**Scientific Program Co-Chair**  
Associate Professor of Neurosurgery  
Stanford University  
Stanford, CA



**Michael Kaplitt, MD, PhD**  
**Scientific Program Co-Chair**  
Associate Professor of Neurosurgery  
Weill Medical College of Cornell University  
New York, NY



**Alon Mogilner, MD, PhD**  
**Local Chairman**  
Director of Functional and Restorative Neurosurgery  
North Shore LIJ Health System  
Manhasset, NY



**Aviva Abosch, MD, PhD**  
**Meeting Sponsorship Co-Chair**  
Assistant Professor of Neurosurgery  
University of Minnesota  
Minneapolis, MN



**Brian Kopell, MD**  
**Meeting Sponsorship Co-Chair**  
Assistant Professor of Neurosurgery  
Medical College of Wisconsin  
Milwaukee, WI



**Ron Alterman, MD**  
**Pre-Meeting Workshop Chair**  
Director of Functional and Restorative Neurosurgery  
Mount Sinai Hospital  
New York, NY



**David Roberts, MD**  
**Honored Guest**  
Chief of Neurosurgery  
Dartmouth-Hitchcock Medical Center  
Lebanon, NH

## Program Description

The ASSFN biennial meeting is dedicated to the rapidly growing specialty of stereotactic and functional neurosurgery. The 2010 meeting welcomes honored guest lecturer (and ASSFN Past President) **David W. Roberts** from Dartmouth-Hitchcock Medical Center, and also features an invited lecture by **Paul Greengard**, a 2000 Nobel Prize winner from Rockefeller University. New this year is a pre-meeting practical course on *Deep Brain Stimulation for Movement Disorders* for neurologists, nurse practitioners, and physician assistants. And, because of high interest at the 2008 meeting, breakfast sessions will once again be offered. This year's topics are Cell Transplantation; Neural Prostheses; and Consciousness: Disorders and Surgical Treatment. The meeting will also address functional imaging, gene therapy, deep brain stimulation in movement and psychiatric disorders, stereotactic radiosurgery, and emerging technologies. There will be lectures by internationally acclaimed faculty as well as oral and poster presentations selected from submitted abstracts. The meeting emphasizes cutting-edge clinical applications and recent discoveries in the basic neurosciences and the impact they will have on future advances in stereotactic and functional neurosurgery.

## Learning Objectives

Upon completion of this educational activity, participants should be able to:

1. Describe the recent findings in the pathophysiology of neurologic and psychiatric disorders.
2. Discuss surgical strategies for the treatment of movement disorders, chronic pain, epilepsy, psychiatric disorders, Alzheimer's disease, and brain tumors.
3. Discuss new applications of deep brain stimulation and other forms of neuromodulation.
4. Discuss emerging radiosurgical therapies.
5. Apply recent advances in research to the clinical practice of functional neurosurgery.
6. Discuss new methods of surgical navigation, along with their pros and cons.

## Target Audience

Neurosurgeons, Neurologists, Neuroscientists, Neuro-radiologists, Psychiatrists, and Biomedical Engineers.



# Agenda

## Sunday, June 13

<b>7:00 am - 1:00 pm</b>	<b>Pre-Meeting Workshop: Deep Brain Stimulation for Movement Disorders: A Practical Course for Neurologists, Nurse Practitioners, and Physician's Assistants</b>
<b>5:00 - 7:00 pm</b>	<b>Early Registration</b>
<b>7:00 - 8:30 pm</b>	<b>Welcome Reception</b>

## Monday, June 14

<b>7:00</b>	<b>Breakfast Seminar: Cell Transplantation in Neurosurgery</b> Moderator: Roy Bakay Thomas Freeman, Lorenz Studer
<b>8:00</b>	<b>Opening Remarks &amp; Presidential Address</b> Philip Starr
<b>8:30</b>	<b>Invited Lecture: Functional Imaging in Movement Disorders</b> Andrew Feigin
<b>9:00</b>	<b>Invited Lecture: Gene Therapy for Functional Neurological Disorders</b> Michael Kaplitt
<b>9:30</b>	<b>Open Papers: Movement Disorders</b> Moderators: Ron Alterman, Christopher Honey
<b>10:30</b>	<b>Break</b>
<b>11:00</b>	<b>Open Papers: Movement Disorders</b> Moderators: Peter Konrad, Paul Larson
<b>12:00</b>	<b>Honored Guest Luncheon Lecture</b> David Roberts
<b>1:30</b>	<b>Invited Lecture: Molecular Pathways in Movement and Psychiatric Disorders</b> Paul Greengard
<b>2:00</b>	<b>Invited Lecture: DBS for Dementia</b> Andres Lozano
<b>2:30</b>	<b>Open Papers: Psychiatric Surgery</b> Moderators: Ali Rezai, Rees Cosgrove
<b>3:45</b>	<b>Break</b>
<b>4:15</b>	<b>Open Papers: Psychiatric Surgery</b> Moderators: Kelly Foote, Brian Kopell
<b>5:30</b>	<b>Adjourn</b>

## Pre-Meeting Workshop: Deep Brain Stimulation for Movement Disorders

A Practical Course for Neurologists, Nurse Practitioners,  
and Physician's Assistants

Sunday, June 13, 2010

<b>Faculty:</b>	<b>Ron Alterman, MD; Michele Tagliati, MD; Michael Pourfar, MD; Joan Miravite, FNP</b>
<b>7:00 - 7:50 am</b>	<b>Registration and Continental Breakfast</b>
<b>7:50 - 8:00 am</b>	<b>Introductory Remarks</b> Ron Alterman, MD, Course Director
<b>8:00 - 8:50 am</b>	<b>Overview of Movement Disorders</b> Michael Pourfar, MD Diagnosis and Management of Movement Disorders that may be treated with Deep Brain Stimulation: <ul style="list-style-type: none"><li>• Parkinson's Disease</li><li>• Essential Tremor</li><li>• Dystonia</li></ul>
<b>9:00 - 9:50 am</b>	<b>Patient Selection for DBS Surgery</b> Michele Tagliati, MD
<b>10:00 - 10:50 am</b>	<b>Deep Brain Stimulation Surgery</b> Ron Alterman, MD
<b>11:00 - 11:50 am</b>	<b>Programming Deep Brain Stimulator Devices</b> Michele Tagliati, MD Introduction to the Programmer Basics of Mechanism of Action
<b>12:00 - 1:00 pm</b>	<b>Practical Experience with Device Programmer</b> Michele Tagliati, Michael Pourfar, Joan Miravite

# Agenda

## Tuesday, June 15

<b>7:00</b>	<b>Breakfast Seminar: Neural Prostheses in Neurosurgery</b> Moderator: Ted Schwartz Leigh Hochberg, Eric Leuthardt
<b>8:00</b>	<b>Introduction of Honored Guest</b> Michael Schulder
<b>8:05</b>	<b>Honored Guest Lecture</b> David Roberts
<b>8:30</b>	<b>Open Papers: Pain/Epilepsy</b> Moderators: Joshua Rosenow, Aviva Abosch
<b>9:30</b>	<b>Break</b>
<b>10:00</b>	<b>Invited Lecture: Peripheral Stimulation for Craniofacial Pain</b> Konstantin Slavin
<b>10:30</b>	<b>Open Papers: Pain/Epilepsy</b> Moderators: Alon Mogilner, Daniel Yoshor
<b>11:30</b>	<b>Executive Board Meeting</b>
<b>11:30</b>	<b>Lunch and Poster Viewing</b> Poster Review Committee: Zelma Kiss, Eric Richter, Joseph Neimat, Ethan Taub
<b>1:00</b>	<b>Invited Lecture: Physiological Mechanisms of Basal Ganglia Disorders</b> Emad Eskandar
<b>1:30</b>	<b>Invited Lecture: Pedunculopontine Nucleus Deep Brain Stimulation</b> Clement Hamani
<b>2:00</b>	<b>Invited Lecture: DBS for Tourette's – Update</b> Robert Maciunas
<b>2:30</b>	<b>Open Papers: Movement Disorders II</b> Moderators: Kathryn Holloway, Nicholas Boulis
<b>3:45</b>	<b>Break</b>
<b>4:15</b>	<b>Open Papers: Movement Disorders</b> Moderators: Robert Gross, Gordon Baltuch
<b>5:30</b>	<b>Adjourn</b>
<b>7:00</b>	<b>Gala Dinner</b>

## Wednesday, June 16

<b>7:00</b>	<b>Breakfast Seminar: Consciousness: Disorders and Surgical Treatment</b> Moderator: Andres Lozano Nicholas Schiff, Rudolfo Llinás
<b>8:00</b>	<b>Invited Lecture: Standards for Clinical Research in Neurosurgery</b> Doug Kondziolka
<b>8:30</b>	<b>Invited Lecture: Technological Evolution in Radiosurgery</b> William Friedman
<b>9:00</b>	<b>Open Papers: Radiosurgery</b> Moderators: Robert Goodman, Michael Schulder
<b>10:00</b>	<b>Break</b>
<b>10:30</b>	<b>Open Papers: Radiosurgery</b> Moderators: Antonio DeSalles and John Adler
<b>11:30</b>	<b>Business Meeting</b>
<b>12:00</b>	<b>Lunch: Special Lecture</b>
<b>1:30</b>	<b>Invited Lecture: Advances in Image Guided Neurosurgery</b> Richard Bucholz
<b>2:00</b>	<b>Invited Lecture: Optogenetic Neuromodulation</b> Jaimie Henderson
<b>2:30</b>	<b>Open Papers: Emerging Technologies and Neuroprosthetics</b> Michael Oh, Jason Schwalb
<b>3:30</b>	<b>Break</b>
<b>4:00</b>	<b>Open Papers: Emerging Technologies and Neuroprosthetics</b>
<b>5:00</b>	<b>Awards Ceremony</b> Michael Schulder, Phil Gildenberg

# Invited Speakers

**Aviva Abosch, MD, PhD**

University of Minnesota  
Minneapolis, MN

**John Adler, Jr., MD**

Stanford University Medical Center  
Palo Alto, CA

**Ron Alterman, MD**

Mount Sinai Hospital  
New York, NY

**Roy Bakay, MD**

Rush University  
Chicago, IL

**Gordon Baltuch, MD, PhD**

University of Pennsylvania  
Philadelphia, PA

**Nicholas Boulis, MD**

Emory University  
Atlanta, GA

**Richard Bucholz, MD, FACS**

St. Louis University  
St. Louis, MO

**G. Rees Cosgrove, MD, FRCS(C)**

Lahey Clinic  
Burlington, MA

**Antonio De Salles, MD, PhD**

University of California  
Los Angeles, CA

**Emad Eskandar, MD**

Harvard Medical School  
Boston, MA

**Andrew Feigin, MD**

North Shore-LIJ Medical Center  
Manhasset, NY

**Kelly Foote, MD**

University of Florida  
Gainesville, FL

**Thomas Freeman, MD**

University of South Florida  
Tampa, FL

**William Friedman, MD, FACS**

University of Florida  
Gainesville, FL

**Philip Gildenberg, MD, PhD**

Houston Stereotactic Concepts  
Houston, TX

**Robert Goodman, MD**

New York Neurological Institute  
New York, NY

**Paul Greengard, PhD**

Rockefeller University  
New York, NY

**Robert Gross, MD, PhD**

Emory University  
Atlanta, GA

**Clement Hamani, MD**

University of Toronto  
Toronto, Ontario

**Jaimie Henderson, MD**

Stanford University Med. Center  
Stanford, CA

**Leigh Hochberg, MD, PhD**

Brown University  
Providence, RI

**Kathryn Holloway, MD**

Medical College of Virginia  
Richmond, VA

**Christopher Honey, MD**

University of British Columbia  
Vancouver, BC

**Michael Kaplitt, MD, PhD**

Weill Medical College of Cornell  
University  
New York, NY

**Zelma Kiss, MD, PhD**

University of Calgary  
Calgary, Alberta

**Douglas Kondziolka, MD**

University of Pittsburgh Medical  
Center  
Pittsburgh, PA

**Peter Konrad, MD, PhD**

Vanderbilt University Medical  
Center  
Nashville, TN

**Brian Kopell, MD**

Medical College of Wisconsin  
Milwaukee, WI

**Paul Larson, MD**

University of California  
San Francisco, CA

**Eric Leuthardt, MD**

Washington University St. Louis  
St. Louis, MO

**Rudolfo Llinás, MD**

New York University School of  
Medicine  
New York, NY

**Andres Lozano, MD, PhD**

Toronto Western Hospital  
Toronto, ON

**Robert Maciunas, MD**

University Hospitals of Cleveland  
Cleveland, OH

**Joan Miravite, FNP**

Phillips Ambulatory Care Center  
New York, NY

**Alon Mogilner, MD, PhD**

North Shore LIJ Health System  
Manhasset, NY

**Joseph Neimat, MD**

Vanderbilt University  
Nashville, TN

**Michael Oh, MD**

Drexel University College of  
Medicine  
Pittsburgh, PA

**Michael Pourfar, MD**

North Shore Univ Hospital  
Great Neck, NY

**Ali Rezai, MD**

The Ohio State University  
Columbus, OH

**Erich Richter, MD**

LSU Health Sciences Center  
New Orleans, LA

**David Roberts, MD**

Dartmouth-Hitchcock Medical  
Center  
Lebanon, NH

**Joshua Rosenow, MD**

Northwestern University  
Chicago, IL

**Nicholas Schiff, MD**

Weill Medical College of Cornell  
University  
New York, NY

**Michael Schulder, MD**

North Shore LIJ Health System  
Manhasset, NY

**Jason Schwalb, MD**

Henry Ford West Bloomfield  
Hospital  
West Bloomfield, MI

**Ted Schwartz, MD**

New York Presbyterian Hosp.  
New York, NY

**Konstantin Slaviv, MD**

University of Illinois at Chicago  
Oak Park, IL

**Philip Starr, MD, PhD**

University of California  
San Francisco, CA

**Lorenz Studer, MD**

Memorial Sloan Kettering Cancer  
Center  
New York, NY

**Michele Tagliati, MD**

Mt. Sinai Hospital  
New York, NY

**Ethan Taub, MD**

University Hospital  
Basel, Switzerland

**Daniel Yoshor, MD**

Baylor College of Medicine  
Houston, TX



# General Information

## Location

New York Marriott Downtown  
85 West Street at Albany Street  
New York, New York 10006 USA  
800-228-9290 or 212-385-4900

- The only Marriott hotel centrally located in Lower Manhattan, New York City's Financial District.
- Within walking distance to Wall Street, the New York Stock Exchange, and World Financial Center.
- This Manhattan hotel is in close proximity to many tourist attractions, including the Statue of Liberty, Ellis Island and SoHo.

## Hotel Reservations

Hotel reservations are separate from the meeting registration and the responsibility of the participant. A block of rooms is reserved under the Group Code "ASSASSA" at the rate of \$285 USD plus tax, per night. The cut-off date for this special rate is Monday, May 17, 2010, as long as rooms remain in the block. Please book your room early to obtain this rate. You may cancel your room reservation within 48 hours of arrival to avoid a penalty. To book your room by telephone, please call 800-228-9290 or 212-385-4900. To book online, go to [www.nymarriottdowntown.com](http://www.nymarriottdowntown.com) and enter "ASSASSA" in the "Group Code" section. This rate is available for a stay at the hotel from June 10 to June 17, 2010.

## Meeting Registration/Refund Policy

The deadline for online registration is Tuesday, June 8, 2010. To expedite the registration process, please register online at [www.cteusa.com/assfn3](http://www.cteusa.com/assfn3). After June 8, 2010, add \$50 to the registration fee. For further information, please contact Martha Tobin at 216-445-3449 or at [tobinm@ccf.org](mailto:tobinm@ccf.org). Refunds or cancellations are subject to a \$50 service charge. A request for a refund must be received in writing by e-mail to [tobinm@ccf.org](mailto:tobinm@ccf.org) by June 1, 2010. No refunds will be issued after June 1, but registration is transferable through June 16, 2010.

## Call for Abstracts

Abstracts are being solicited for oral and poster presentations. Submission deadline is February 15, 2010. All submissions must be made through the meeting website at [www.assfn.org](http://www.assfn.org). Awards will be given for the best clinical and basic papers in both poster and oral presentation categories.

## Accreditation/Continuing Medical Education

This activity has been planned and implemented in accordance with the Essential Areas and Policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of the AANS and American Society for Stereotactic and Functional Neurosurgery. The AANS is accredited by the ACCME to provide continuing medical education for physicians.

The AANS designates this educational activity for a maximum of 29.50 *AMA PRA Category 1 credit(s)*<sup>™</sup>. Physicians should only claim credit commensurate with the extent of their participation in the activity.

## CME Credit for Posters

Physicians may claim *AMA PRA Category 2 Credit*<sup>™</sup> for viewing scientific posters. Physicians should self-claim credit to the AMA on their AMA PRA certificate application form.

## Disclaimer

The material presented at the 2010 ASSFN Biennial Meeting has been made available by the American Society for Stereotactic and Functional Neurosurgery (ASSFN) and the AANS for educational purposes only. The material is not intended to represent the only, nor necessarily the best, method or procedure appropriate for the medical situations discussed, but rather it is intended to present an approach, view, statement, or opinion of the faculty, which may be helpful to others who face similar situations.

All drugs and medical devices used in the United States are administered in accordance with the Food and Drug Administration (FDA) regulations. These regulations vary depending on the risks associated with the drug or medical devices compared to products already on the market, and the quality and scope of the clinical data available.

Some drugs and medical devices demonstrated or described on the print publications of the ASSFN, and jointly sponsored by the AANS have FDA clearance for use for specific purposes or for use only in restricted research settings. The FDA has stated that it is the responsibility of the physician to determine the FDA status of each drug or device he or she wishes to use in compliance with the applicable law.

Neither the content (whether written or oral) of any course, seminar or other presentation in the program, nor the use of specific product in conjunction therewith, nor the exhibition of any materials by any parties coincident with the program, should be construed as indicating endorsement or approval of the views presented, the products used, or the materials exhibited by the ASSFN and jointly sponsored by the AANS, or its Committees, Commissions, or Affiliates.

## Special Needs

If you have any special needs that require additional assistance, please contact Martha Tobin at 216-445-3449. Request must be received at least two weeks prior to the start of the meeting.

For additional information:  
Ms. Martha Tobin - 216-445-3449 or [tobinm@ccf.org](mailto:tobinm@ccf.org)

# Meeting Registration Form

## 2010 ASSFN Biennial Meeting

June 13-16, 2010 New York, NY

### FEES:

- U.S. \$550 ASSFN Members
- U.S. \$650 Non-member Physicians\*
- U.S. \$325 Resident/Fellow/RN/PhD/Non-medical

### Pre-Meeting Workshop

- I am registered for the full meeting and will attend the Pre-Meeting Workshop at no additional cost.
- I would only like to attend the Pre-Meeting Workshop and will pay \$50.

\*Not a member? Visit [www.assfn.org](http://www.assfn.org) to join and save on your registration fee.

Fees listed above are for registrations received by June 8, 2010. Add \$50 to the fee for registrations received after June 8, 2010.

### 4 EASY WAYS TO REGISTER (Pre-registration closes June 8, 2010)

**Online:** [www.cteusa.com/assfn3](http://www.cteusa.com/assfn3) **Phone:** 847-759-4257 **Fax:** 847-759-6957

**Mail:** NANS, PO Box 783, Elk Grove Village, IL 60009-0783 USA

**If payment does not accompany this form, your registration will not be processed.**

Once you register online, please do not mail or fax in a registration form.

Fee includes meeting materials, pre-meeting workshop, opening reception, continental breakfasts, breaks, lunches and the Gala Dinner Reception. Payment must be received prior to admittance to the course. Purchase orders are not accepted.

### Complete the information below if registering by mail or fax:

(Please print)

Last name \_\_\_\_\_

First name \_\_\_\_\_ MI \_\_\_\_\_ Degree \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone number \_\_\_\_\_ Fax number \_\_\_\_\_

Specialty \_\_\_\_\_ Email address \_\_\_\_\_

I will attend the opening reception on June 13 (no charge for Meeting attendees).

I will attend the Gala Dinner Reception (no charge for Meeting attendees).

I would like to purchase additional Gala Dinner Reception tickets at U.S. \$150 each.

I require a vegetarian meal.

**Total number of extra Gala Dinner Reception tickets** \_\_\_\_\_ x U.S. \$150.00 = \$ \_\_\_\_\_

**Total amount enclosed or to be charged:** \$ \_\_\_\_\_

### Make check payable to: ASSFN

Or charge the following account:  Visa  MasterCard  American Express

Card number \_\_\_\_\_ Expiration date \_\_\_\_\_

Signature \_\_\_\_\_ Security Code \_\_\_\_\_

(not valid without signature)





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New York, NY



American Association of Neurological Surgeons  
5550 Meadowbrook Dr.  
Rolling Meadows, IL 60008

