

# American Society for Stereotactic and Functional Neurosurgery

# 2012 Biennial Meeting

**June 3-6, 2012**

**Fairmont San Francisco Hotel**



## Meeting Directors



**Ali Rezai, MD**  
**ASSFN President**  
Ohio State University Medical Center  
Columbus, OH



**Philip Starr, MD, PhD**  
**Meeting Chairman**  
University of California, San Francisco  
San Francisco, CA



**Peter Konrad, MD**  
**Scientific Program Co-Chair**  
Vanderbilt Medical Center  
Nashville, TN



**Brian Kopell, MD**  
**Scientific Program Co-Chair**  
Mt. Sinai Medical Center  
New York, NY



**Daniel Lim, MD, PhD**  
**Local Chairman**  
University of California, San Francisco  
San Francisco, CA



**G. Rees Cosgrove, MD**  
**Honored Guest**  
Brown University  
Providence, RI

Stoll Professor and Chair of the Department of Neurosurgery,  
The Warren Alpert Medical School of Brown University

G. Rees Cosgrove, MD, FRCS, is an internationally renowned neurosurgeon specializing in the surgical treatment of epilepsy and all aspects of stereotactic and functional neurosurgery. He is a member of the executive committee of the World Society of Stereotactic and Functional Neurosurgery; past president of the American Society of Stereotactic and Functional Neurosurgery and an active member of the American Association of Neurosurgeons; the Congress of Neurological Surgeons; the American Academy of Neurological Surgery; and the Society of Neurological Surgeons. Dr. Cosgrove is the author of over 100 peer-reviewed publications, 165 abstracts and 46 book chapters. He has been an invited guest lecturer over 140 times and a visiting professor at 32 different academic institutions around the world. Dr. Cosgrove received his training at the Montreal Neurological Institute and has received a number of honors, including the Gold Medal in Surgery of Queen's University, the Wilder Penfield Award of the Montreal Neurological Institute, the Daniel D. Federman Outstanding Clinical Educator Award of Harvard Medical School and an Honorary Litchfield Lectureship from Oxford University.

## Meeting Description

The ASSFN biennial meeting is dedicated to the rapidly growing specialty of stereotactic and functional neurosurgery. The 2012 meeting welcomes honored guest lecturer (and ASSFN Past President) G. Rees Cosgrove from Brown University. This year there are three pre-meeting workshops: *DBS: A Practical Course for Neurologists, Nurse Practitioners, and Physician's Assistants; Electrocorticography in Basic Neuroscience Research; and The Spectrum of Stereotactic and Functional Neurosurgery for Residents and Fellows*. Special topic breakfast sessions will once again be offered each day before the plenary sessions. Addressing the need to cover more topics, parallel sessions will be offered for the first time on Tuesday and Wednesday morning. Key topics include Movement Disorders, Psychiatric Disease, Epilepsy, Pain Therapies, Neuroimaging, Neuroprosthesis, Radiosurgery & Neuro-Oncology and Technology Transfer. 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, Nurses, and Biomedical Engineers.



American  
Association of  
Neurological  
Surgeons

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# Invited Meeting and Workshop Speakers

**John Adler, Jr., MD**

Stanford University  
Stanford, CA

**Ellen Air, MD, PhD**

University of Cincinnati  
Cincinnati, OH

**Ronald Alterman, MD**

Beth Israel Deaconess Medical Center  
Boston, MA

**Tipu Aziz, FRCS(SN), D.Med. Sci.**

University of Oxford  
Oxford, England

**Roy Bakay, MD**

Rush University Medical Center  
Chicago, IL

**Nicholas Barbaro, MD**

Indiana University School of Medicine  
Indianapolis, IN

**Nicholas Boulis, MD**

Emory University  
Atlanta, GA

**Helen Bronte-Stewart, MD, MSE**

Stanford University  
Stanford, CA

**Kim Burchiel, MD, FACS**

Oregon Health & Science University  
Portland, OR

**Edward Chang, MD**

University of California, San Francisco  
San Francisco, CA

**G. Rees Cosgrove, MD, FRCS**

Brown University  
Providence, RI

**Emad Eskandar, MD**

Massachusetts General Hospital  
Boston, MA

**Robert Fisher, MD, PhD**

Stanford University  
Stanford, CA

**Itzhak Fried, MD, PhD**

University of California, Los Angeles  
Los Angeles, CA

**Nicholas Galifianakis, MD, MPH**

University of California, San Francisco  
San Francisco, CA

**Karunesh Ganguly, MD, PhD**

University of California San Francisco  
San Francisco, CA

**Peter Goadsby, MD, PhD**

University of California, San Francisco  
San Francisco, CA

**Robert Goodman, MD, PhD**

The Neurological Institute of New York  
New York, NY

**Nalin Gupta, MD, PhD**

University of California, San Francisco  
San Francisco, CA

**Suzanne Haber, PhD**

University of Rochester Medical Center  
Rochester, NY

**Susan Heath, RN, MS**

San Francisco VA Medical Center  
San Francisco, CA

**Adam Hebb, MD**

University of Washington  
Seattle, WA

**Coralie de Hemptinne, PhD**

University of California, San Francisco  
San Francisco, CA

**Jaimie Henderson, MD**

Stanford University  
Stanford, CA

**Kathryn Holloway, MD**

Medical College of Virginia  
Richmond, VA

**Paul Holtzheimer, MD, MS**

Dartmouth Medical School  
Lebanon, NH

**Paul House, MD**

University of Utah School of Medicine  
Salt Lake City, UT

**Matthew Howard, III, MD**

University of Iowa Hospital and Clinics  
Iowa City, IA

**Suketu Khandhar, MD**

Sacramento Medical Center  
Sacramento, CA

**Brian Kopell, MD**

Mt. Sinai Medical Center  
New York, NY

**Joachim Krauss, MD**

University of Hannover  
Hannover, Germany

**Anatol Kreitzer, PhD**

University of California, San Francisco  
San Francisco, CA

**Todd Langevin**

Functional Neuromodulation, Inc.  
Edina, MN

**Paul Larson, MD**

University of California, San Francisco  
San Francisco, CA

**Kendall Lee, MD, PhD**

Mayo Clinic - Minnesota  
Rochester, MN

**Eric Leuthardt, MD**

Washington University  
St. Louis, MO

**Robert Levy, MD, PhD**

Shands Jacksonville Neuroscience Institute  
University of Florida College of Medicine  
Jacksonville, FL

**Daniel Lim, MD, PhD**

University of California, San Francisco  
San Francisco, CA

**Rodolfo Llinas, MD, PhD**

NYU Langone Medical Center  
New York, NY

**Russell Lonser, MD**

National Institutes of Health  
Bethesda, MD

**Kip Ludwig, PhD**

National Institute of Neurological Disorders and Stroke  
Bethesda, MD

**Guy McKhann, MD**

Columbia University  
New York, New York

**Kai Miller, MD, PhD**

Stanford University  
Stanford, CA

**Alon Mogilner, MD, PhD**

North Shore-Long Island Jewish Health System  
Manhasset, NY

**Vivian Mushahwar, PhD**

University of Alberta  
Edmonton, Alberta, Canada

**Joseph Neimat, MD**

Vanderbilt University Medical Center  
Nashville, TN

**Jeffrey Ojemann, MD**

Seattle Children's Hospital  
Seattle, WA

**Michael Okun, MD**

University of Florida  
Gainesville, FL

**Jill Ostrem, MD**

University of California, San Francisco  
San Francisco, CA

**Nathan Pliam, MD, PhD**

Bay City Capital  
San Francisco, CA

**Nader Pouratian, MD**

University of California, Los Angeles  
Los Angeles, CA

**Erich Richter, MD**

Louisiana State University Health Sciences Center  
New Orleans, LA

**John Rolston, MD, PhD**

University of California, San Francisco  
San Francisco, CA

**Michael Schulder, MD, FAANS**

North Shore-Long Island Jewish Health System  
Manhasset, NY

**Ashwini Sharan, MD**

Thomas Jefferson University  
Philadelphia, PA

**Karl Sillay, MD**

University of Wisconsin  
Madison, WI

**Konstantin Slavin, MD**

University of Illinois  
Oak Park, IL

**Gary Steinberg, MD, PhD**

Stanford University  
Stanford, CA

**Jon Stoessl, CM, MD, FRCPC, FAAN**

University British Columbia  
Vancouver, British Columbia, Canada

**Volker Sturm, MD**

University of Cologne  
Cologne, Germany

**Takaomi Taira, MD, PhD**

Tokyo Women's Medical University  
Shinjuku-ku, Tokyo, Japan

**Jürgen Voges, MD**

Otto-von-Guericke University  
Magdeburg  
Magdeburg, Germany

**Monica Volz, RN, MS**

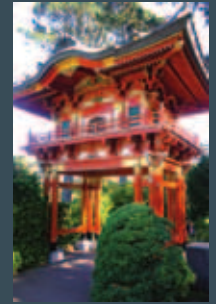
San Francisco VA Medical Center  
San Francisco, CA

**Anna Wang Roe, PhD**

Vanderbilt University  
Nashville, TN

**Daniel Yoshor, MD**

Baylor College of Medicine  
Houston, TX



# Agenda

## Sunday, June 3, 2012

### ASSFN Pre-Meeting Workshops:

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

Workshop Director: Jill Ostrem, MD  
12-5PM

#### Electrocorticography in Basic Neuroscience Research

Workshop Directors: Edward Chang, MD; Adam Hebb, MD; Nader Pouration, MD  
1-6PM

#### The Spectrum of Stereotactic and Functional Neurosurgery for Residents and Fellows

Workshop Director: Robert Gross, MD  
12-7PM

For more details on each of these workshops, visit [assfn.org](http://assfn.org)

## Monday, June 4, 2012

7:00-8:00	Breakfast Session: Stem Cells in Neurosurgery	Daniel Lim, Nalin Gupta and Gary Steinberg
8:00-12:00	Plenary Sessions Welcome	Philip Starr
	SCIENCE OF COGNITION Cognitive Function: A Neurosurgical Target? President's Address	Rodolfo Llinas Ali Rezai
	Break and Poster Viewing/Exhibits	
	MOVEMENT DISORDERS I Basal Ganglia Physiology: Circuits and Relevance – DBS	Anatol Kreitzer
	Open Papers	
12:00-1:00	Luncheon Session	
1:00-5:30	PSYCHIATRIC DISEASE I Targeting Treatment for Depression The Limbic System in 2012 Open Papers	Paul Holtzheimer Suzanne Haber
	Break and Poster Viewing/Exhibits	
	PSYCHIATRIC DISEASE II DBS and Alcoholism DBS for Alzheimers	Jürgen Voges Volker Sturm
	Open Papers	
5:30	ADJOURN	
6:00-10:00	Opening Reception	

## Tuesday, June 5, 2012

7:00-8:00	Breakfast Session: Primer on Electrophysiology	Kai Miller and Rodolfo Llinas
8:00-11:30	PARALLEL SESSIONS I & II (see opposite Page)	
11:30-12:00	Honored Guest Lecture	Rees Cosgrove
12:00-1:00	Luncheon Session	
EPILEPSY		
1:00-5:00	Plenary Session Temporal Lobe Surgery: Outcomes Review Extratemporal Surgery: Outcomes Review Open Papers Break and Poster Viewing/Exhibits	David Roberts Guy McKhann
EPILEPSY		
	Hippocampal Memory Cells: "The Bart Simpson Cell" Rate Responsive Stimulation for Epilepsy Open Papers	Itzhak Fried Robert Fisher
5:00-5:30	Business Meeting	
5:30	ADJOURN	

## Wednesday, June 6, 2012

7:00-8:00	Breakfast Session: SCS and Peripheral Stimulation for Pain	Robert Levy and Konstantin Slavin
8:00-12:00	PARALLEL SESSIONS I & II (see opposite Page)	
12:00-1:00	Luncheon Session	
PAIN THERAPIES		
1:00-14:30	Plenary Session The Science of Headache Neuromodulation for Central Neuropathic Pain Open Papers Trigeminal Neuralgia: What Type Is It? Intrathecal Therapies for Pain Open papers	Peter Goadsby Tipu Aziz Kim Burchiel Takaomi Taira
4:30	AWARDS CEREMONY	
5:00	Meeting Adjourned	

# PARALLEL SESSIONS

## Tuesday, June 5, 2012

PARALLEL SESSION I		
NEUROIMAGING I		
8:00-11:30	Disease Progression: Are There Visible Markers?	Jon Stoessl
	What Can DTI Teach Us?	Tipu Aziz
Open Papers		
Break and Poster Viewing/Exhibits		
NEUROIMAGING		
	Functional Connectivity	Anna Wang Roe
Open Papers		
Open Papers		

PARALLEL SESSION II		
MOVEMENT DISORDERS II		
	HOT TOPIC: Gpi is Best Target for Dystonia	Joachim Krauss
	HOT TOPIC: STN is Best Target for Dystonia	Jill Ostrem
Open Papers		
Break and Poster Viewing/Exhibits		
MOVEMENT DISORDERS III		
	<b>Key Talk: Movement Disorders III</b> Biological Modulation of Neural Tissue (Role of Viruses and Growth Factors)	Nicholas Boulis
	<b>Comprehensive Approach to Treatment of Tremor</b>	Takaomi Taira
Open Papers		

## Wednesday, June 6, 2012

PARALLEL SESSION I		
NEUROPROSTHESIS		
8:00-12:00	Overview of BMI/SCI	Karunesh Ganguly
	Spinal Cord Machine Interface	Vivian Mushahwar
Open Papers		
Break and Poster Viewing/Exhibits		
TECHNOLOGY TRANSFER/BUSINESS OF FUNCTIONAL NEUROSURGERY		
	The VC Point of View	Nathan Pliam
	Industry Point of View	Todd Langevin
	Translating Discoveries through NIH SBIR/STTR Mechanisms	Kip Ludwig
	Building a Financially Viable Neurosurgery Practice	Alon Mogilner
Open Papers		

PARALLEL SESSION II		
RADIOSURGERY AND NEURO-ONCOLOGY		
	Convection Delivery for Brain Tumors	Russell Lonser
	Debate: Stereotactic Frame vs. Mask for Localization?	Michael Schulder
Open Papers		
Break and Poster Viewing/Exhibits		
RADIOSURGERY AND NEURO-ONCOLOGY		
	Mesial Temporal Lesioning for Epilepsy	Nicholas Barbaro
	Update on Spinal Radiosurgery	John Adler
Open Papers		
Open Papers		
Open Papers		

# General Information

## Location

Location: The Fairmont San Francisco  
950 Mason Street  
San Francisco, CA 94108  
Tel: 415-772-5175 / Fax: 415-772-5086

## Hotel Reservations

Hotel reservations are separate from the meeting registration and the responsibility of the participant. A block of rooms is reserved at the rate of \$279 USD plus tax, per night. The cut-off date for this special rate is Monday, April 30, 2012, as long as rooms remain in the block. Please book your room early to obtain this rate. To book your room by telephone, please call 1-800-441-1414 (ask for group reservations for the ASSFN Meeting). This rate is available for a stay at the hotel from June 1 to June 8, 2012.

## Meeting Registration/Refund Policy

The deadline for online registration is Tuesday, May 29, 2012. To expedite the registration process, please register online at [www.assfn.org](http://www.assfn.org). After May 29, 2012, registrations will be on site only starting on June 3, 2012. 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 May 21, 2012. No refunds will be issued after May 21, but registration is transferable through June 6, 2012.

## Call for Abstracts

Abstracts are being solicited for oral and poster presentations. Submission deadline is February 15, 2012. 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 (ACCME) through the joint sponsorship of the American Association of Neurological Surgeons (AANS) and American Society for Stereotactic and Functional Neurosurgery (ASSFN). The AANS is accredited by the ACCME to provide continuing medical education for physicians.

The AANS designates this live educational activity for a maximum of 32.75 *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.

## Disclosures

Before the program, all faculty members will disclose the existence of any financial interest and/or the relationship they or their significant other have with the manufacturer(s) of any commercial product(s) to be discussed during their presentation. The AANS and ASSFN control the content and production of this CME activity and attempt to ensure the presentation of balanced, objective information.

## 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

## 2012 ASSFN Biennial Meeting

June 3-6, 2012 Fairmont San Francisco Hotel

### FEES:

#### On or before May 1, 2012

- U.S. \$595 ASSFN Members
- U.S. \$695 Non-member Physicians
- U.S. \$795 Join ASSFN and register
- U.S. \$325 Resident/Fellow/RN/PhD/Non-medical

#### May 2 – June 6, 2012

- U.S. \$695 ASSFN Members
- U.S. \$795 Non-member Physicians
- U.S. \$895 Join ASSFN and register
- U.S. \$425 Resident/Fellow/RN/PhD/Non-medical

#### Pre-Meeting Workshop

\$50 with meeting registration fee / \$100 for workshop only

- DBS: A Practical Course for Neurologists, Nurse Practitioners, and Physician's Assistants
- Electroconvulsive Therapy in Basic Neuroscience Research
- The Spectrum of Stereotactic and Functional Neurosurgery for Residents and Fellows

#### 4 EASY WAYS TO REGISTER (Pre-registration closes May 29, 2012)

**Online:** www.assfn.org      **Phone:** 800-438-3402 or 847-759-4257      **Fax:** 847-759-6957

**Mail:** ASSFN Registration c/o CTE, 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, welcome reception, continental breakfasts, breaks and lunches. 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 4 (no charge for Meeting attendees).

I require a vegetarian meal.

**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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and Functional Neurosurgery



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**Abstract Deadline – February 15th**



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

