41st Annual Meeting
October 10-11, 2013
Hilton at Union Square • San Francisco, CA

Jointly Sponsored by:

Postgraduate Institute for Medicine

Society for Neuroscience in Anesthesiology and Critical Care
2209 Dickens Road • Richmond, VA 23230-2005
(804) 565-6360 • snacc@snacc.org • www.snacc.org

Photos courtesy of Lewis Sommer, San Francisco Convention & Visitor's Bureau

SAN FRANCISCO
I invite you to join us at the 41st Annual Meeting of the Society for Neuroscience in Anesthesiology and Critical Care at the Hilton Union Square in San Francisco October 10-11, 2013. We have built on the success of last year’s 40th Anniversary Meeting to develop a diverse program and new sessions for 2013. The meeting will begin at lunch time on Thursday, October 10 with concurrently running Workshops and a Research Symposium, followed by the evening Dinner Symposium. The scientific sessions of the Annual Meeting and Business Meeting will take place on Friday, October 11.

A mentoring workshop entitled Getting Started and Maintaining a Successful Academic Career has been organized by Drs. Jeffrey Pasternak and Chananmit Paisansathan. There will be four lectures from distinguished SNACC members, Drs. Michael Todd, William Lanier, Jr., Gregory Crosby, and Kathryn Lauer on starting, maintaining and progressing in an academic career, the importance of mentoring, and maintaining a work-life balance. Although this workshop is primarily aimed at residents, fellows and junior faculty, all SNACC members are welcome to attend. Pre-registration is required. Concurrently, Dr. Deepak Sharma will be running Transcranial Doppler Ultrasonography Workshops, which this year will include basic and advanced sessions. The instructors are Drs. Deepak Sharma, Arthur Lam, Andrew Kofke, Abhijit Lele and Ryan Pong. Early registration is recommended as these workshops are very popular.

For the first time on Thursday afternoon, we are hosting a CNS Research Symposium - CNS Inflammation: Friend or Foe? This event has been organized by Drs. Deb Culley and William Armstead, and will include lectures by Drs. Edward Sherwood, Roderic Eckenhoff, Temugin Berta and Midori Yenari, all experts in this fascinating area of perioperative neuroscience. The topics for discussion include the physiology and pathophysiology of brain inflammation, the role of inflammation in POCD and Alzheimer's disease and in the development of chronic pain syndromes, and the inflammation in stroke. An open poster discussion session will follow the lectures. This symposium is open to both SNACC members and non-members, and pre-registration is required.

The Thursday evening Dinner Symposium has been organized by Dr. W. Andrew Kofke and is sponsored by a generous educational grant from Masimo. The theme is Blood Products and Fluids in Neurosurgery, and the speakers are Drs. Keith Ruskin, Jerrold Levy, and Jose Suarez, who will discuss red cell transfusion, managing anticoagulation and the use of colloids and crystalloids respectively.

The keynote speaker at this year’s main meeting on Friday, October 11 will be Dr. Robert T. Knight, Professor of Psychology and Neuroscience from UC Berkeley, who will discuss Lessons from Direct Cortical Recording – Can We Hear What You Think? This promises to be an interesting start to the day. In the first mini-symposium on Psychoneuroanesthesia - Really?, Dr. Laszlo Vutskits will discuss whether general anesthetics can trigger or treat psychiatric disease, and Dr. Philip Starr will discuss Deep Brain Stimulation and Depression. The afternoon mini-symposium on Neuroanesthesia: Myths and Fads will include diverse topics. Dr. Arthur Lam will discuss aspects of Evoked Potential Monitoring - The Good, The Bad and The Ugly and Dr. Ramsis Ghaly, being both a neuroanesthesiologist and neurosurgeon, will bring his unique insights into whether neurosurgeons need a neuroanesthesiologist with his topic, Do Neurosurgeons Need a Neuroanesthesiologist? Dr. Elizabeth Sinz will attempt to persuade the audience with Every Neuroanesthesiologist Should Participate in NeuromSim, and the session will end with Dr. Michael Todd discussing Neuroanesthesia and Dead Horses – Round Two? There will be two 75-minute poster sessions at which more than 120 colleagues from around the world will present their most recent research on perioperative neuroscience. The poster sessions are always valued by presenters and attendees alike, bringing, as they do, an opportunity for face-to-face, in-depth peer discussion. The day will conclude with a pro/con debate on large database research. Dr. William Lanier, Jr. will argue for the utility and validity of database research whilst Dr. John Drummond will take the ‘con’ position and consider whether ice cream really does cause boating accidents! Both of these speakers will, I am sure, bring an entertaining, but educational element to their presentations on this important subject. The day will end with the traditional wine and cheese reception and an opportunity to meet old friends and make new ones.

The Annual Business Meeting and award presentations will be held during lunch on Friday. In addition to the presentation by the winner of the Michenfelder Award at the end of the business meeting, there will also be a short presentation by the winner of the SNACC prize at the International Anesthesia Research Society meeting that was held in May.

Although there is a full program, there will be ample opportunity to network with colleagues and with industry partners, to whom we are grateful for financial support. A series of Special Interest Groups will also meet at different times during the two days, and further details will be available in the upcoming months.

Detailed information about all aspects of the 2013 Annual Meeting is available on the SNACC website at www.snacc.org, which is regularly updated.

I look forward to meeting you in San Francisco!
SNACC 41st Annual Meeting Program Information

Mission of SNACC
The mission of the Society is to advance the art and science of the care of the neurologically impaired patient.

Program Overview
The overall scientific program of the SNACC 41st Annual Meeting addresses the specialty’s practice gaps and underlying educational needs in multiple areas, including mentorship for clinical research, developing an academic career, transcranial doppler ultrasonography, brain inflammation, blood products & fluids in neurosurgery, RBC transfusion in neurosurgery, psychoneuroanesthesia, database research, myths and fads of neuroanesthesia and poster discussion sessions. The program reflects the diversity of the specialty and the needs and interests of the general and specialist anesthesiologist’s practice. The posters will reflect experimental and clinical neuroscience.

Target Audience
The SNACC 41st Annual Meeting has been designed to meet the educational needs of neurosurgical and critical care anesthesiologists and neuroscientists involved in the care of patients with neurological disorders and is intended for neurosurgical and critical care anesthesiologists, neuroscientists, faculty, residents, fellows and medical students. The Society supports the attendance by members in the educational sessions of the annual meeting. The program is generated from member requests and an assessment of need by the program committee.

Attendance at this meeting does not guarantee competency or proficiency in the performance of any procedures which may be discussed or taught during the course.

Participation in the SNACC 41st Annual Meeting
Attendance shall be open to all health practitioners, provided that they have registered for the meeting. CME credit will only be offered to MDs, DOs or equivalent. A completed Physician Verification of Attendance form must be turned in to SNACC at the conclusion of the meeting. The form will be available onsite.

Educational Format
CME activities may include the following formats: plenary sessions, lectures, moderated poster discussions, oral abstracts and skill-set workshops.

Accreditation Statement
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 Postgraduate Institute for Medicine and SNACC. The Postgraduate Institute for Medicine is accredited by the ACCME to provide continuing medical education for physicians.

Credit Designation
The Postgraduate Institute for Medicine designates this live activity for a maximum of 10.5 AMA PRA Category 1 Credit(s)™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

SNACC TCD Beginner Workshop
The PIM designates this educational activity for a maximum of 2.0 AMA PRA Category 1 Credit(s)™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

SNACC TCD Advanced Workshop
The PIM designates this educational activity for a maximum of 4.0 AMA PRA Category 1 Credit(s)™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

SNACC Mentoring Session
The PIM designates this educational activity for a maximum of 4.0 AMA PRA Category 1 Credit(s)™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

SNACC Research Symposium
The PIM designates this educational activity for a maximum of 3.0 AMA PRA Category 1 Credit(s)™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

SNACC Thursday Evening Dinner Symposium
No CME credits are designated for this activity.

Disclosure of Conflicts of Interest
Postgraduate Institute for Medicine (PIM) requires instructors, planners, managers and other individuals who are in a position to control the content of this activity to disclose any real or apparent conflict of interest (COI) they may have as related to the content of this activity. All identified COI are thoroughly vetted and resolved according to PIM policy. PIM is committed to providing its learners with high quality CME activities and related materials that promote improvements or quality in healthcare and not a specific proprietary business interest of a commercial interest.

Disclosure of Unlabeled Use
This educational activity may contain discussion of published and/or investigational uses of agents that are not indicated by the FDA. The planners of this activity do not recommend the use of any agent outside of the labeled indications.

The opinions expressed in the educational activity are those of the faculty and do not necessarily represent the views of the planners. Please refer to the official prescribing information for each product for discussion of approved indications, contraindications, and warnings.

Special Needs Statement
The Society for Neuroscience in Anesthesiology and Critical Care is committed to making its activities accessible to all individuals and fully complies with the legal requirements of the Americans with Disabilities Act and the rules and regulations thereof. Event staff will be glad to assist you with any special needs (i.e. physical, dietary, etc.) Please contact the SNACC office prior to the live event at (804) 565-6360 and/or submit a description of your needs in writing via email to snacc@snacc.org.

Commercial Support Acknowledgement
This CME activity is supported by educational grants. A complete list of supporters will be published in the program syllabus.

Lodging Information
The SNACC 41st Annual Meeting will be held at the Hilton Union Square in San Francisco, CA. Hotel reservations should be made through the ASA Housing Bureau. To make hotel reservations online, please visit www.snacc.org for the ASA housing link.
Learning Objectives

The 41st Annual Meeting of the Society for Neuroscience in Anesthesiology and Critical Care is directed towards creating a learning environment where participants will be able to:

- Discuss the essentials of neuromonitoring in the operating room for Anesthesiologists.
- State how participants can play a more active role in intraoperative neuromonitoring.
- Discuss methods to enhance the development of an academically productive career in Anesthesiology.
- Discuss current controversies in neuroanesthesia.
- Review the interconnectivity of the brain.
- Discuss the role of inflammation in the normal and pathologic brain.
- Employ best practice strategies from lectures, workshops, and poster session to provide best quality and safety in patient management base on up to date information.

Disclaimer

Participants have an implied responsibility to use the newly acquired information to enhance patient outcomes and their own professional development. The information presented in this activity is not meant to serve as a guideline for patient management. Any procedures, medications, or other courses of diagnosis or treatment discussed or suggested in this activity should not be used by clinicians without evaluation of their patient’s conditions and possible contraindications and/or dangers in use, review of any applicable manufacturer’s product information, and comparison with recommendations of other authorities.

A Disclosure of Conflicts of Interest handout is inserted in the Program and Abstracts Book. The handout reflects reports of financial relationships or relationships to products or devices faculty, planners, and managers, or their spouses/life partners, have with commercial interests related to the content of this CME activity. If you do not find this handout inserted in your Program and Abstracts Book, please visit the conference’s Registration Desk.

The planners and managers reported the following financial relationships or relationships they or their spouse/life partner have with commercial interests related to the content of this continuing education activity:

The following PIM planners and managers, Deborah J. Culley, MD, Kristin Engelhard, MD, PhD, Angar M. Brambrink, MD, PhD, Martin Smith, MBBS, FRCA, FFICM, W. Andrew Kofke, MD, MBA, FCCM, Deepak Sharma, MBBS, MD, DM, William Armstead, PhD, Jeffrey J. Pasternak, MD, Stewart Hinckley, and Sandra Peterson, hereby state that they or their spouse/life partner do not have any financial relationships or relationships to products or devices with any commercial interest related to the content of this activity of any amount during the past 12 months.
Program Faculty

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School of Medicine
Philadelphia, PA

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Duke University Medical Center
Durham, NC

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B Brigham & Women’s Hospital
Harvard Medical School
Boston, MA

Deborah J. Culley, MD
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Harvard Medical School
Boston, MA

John C. Drummond, MD
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San Diego, CA

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Philadelphia, PA

Adrian W. Gelb, MBBS, FRCPC
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San Francisco, CA

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Utrecht, The Netherlands

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Berkeley, CA

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Philadelphia, PA

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Swedish Neuroscience Institute
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Rochester, MN

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Medical College of Wisconsin
Milwaukee, WI

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San Francisco, CA

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University Hospital of Geneva
Geneva, Switzerland

David S. Warner, MD
Duke University Medical Center
Durham, NC

Midori Yenari, MD
University of California San Francisco
San Francisco, CA
Thursday - October 10, 2013
SNACC Mentoring Session, Research Symposium & TCD Workshops

12:00 n - 5:00 pm
Mentoring Session: Getting Started and Maintaining a Successful Academic Career
Moderator: Jeffrey J. Pasternak, MS, MD

Lecture 1: Experience with a Formal Mentoring Program
Michael M. Todd, MD

Lecture 2: Getting Started and Staying Alive in Research
Gregory J. Crosby, MD

Lecture 3: Academic Appointments and Promotions: Philosophy & Application
William L. Lanier, MD

Lecture 4: Work-life Balance and the Enjoyment of Academic Medicine
Kathryn K. Lauer, MD

12:00 n - 1:00 pm
Lunch (Mentoring Session Participants Only)

2:00 pm - 5:00 pm
SNACC Research Symposium: CNS Inflammation: Friend or Foe?
Moderator: William M. Armstead, PhD

Physiology and Pathophysiology of Brain Inflammation
Edward R. Sherwood, MD, PhD

Role of Inflammation in POCD and Alzheimer’s Disease
Roderic G. Eckenhoff, MD

Role of Inflammation in the Development of Chronic Pain Syndromes
Temugin Berta, PhD

Role of Inflammation in Stroke
Midori Yenari, MD

What’s New in Neuroinflammation from Our Research Group?
SNACC appreciates the support of its exhibitors. Please meet with our sponsors during the exhibit times listed below.

Friday - October 11, 2013
7:00 am - 7:50 am    9:45 am - 10:15 am    2:30 pm - 3:00 pm    5:45 pm - 7:00 pm
# Friday - October 11, 2013

## Scientific Program

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>6:30 am</td>
<td>Registration</td>
</tr>
<tr>
<td>7:00 am - 7:50 am</td>
<td>Continental Breakfast with Exhibits</td>
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<tr>
<td>7:50 am - 8:00 am</td>
<td>Welcome Address</td>
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<tr>
<td>Martin Smith, MBBS, FRCA, FFICM</td>
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<tr>
<td>8:00 am - 8:45 am</td>
<td>Keynote Lecture</td>
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<tr>
<td>Moderator: Adrian W. Gelb, MBBS, FRCPC</td>
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<tr>
<td>Lessons from Direct Cortical Recording - Can We Hear What You Think?</td>
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<tr>
<td>Robert T. Knight, MD</td>
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<tr>
<td>8:45 am - 9:45 am</td>
<td>Mini Symposium One</td>
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<tr>
<td>Psychoneuroanesthesia Really?</td>
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<tr>
<td>Moderator: David S. Warner, MD</td>
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<tr>
<td>General Anesthetics: Do They Trigger or Treat Psychiatric Diseases?</td>
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<tr>
<td>Laszlo Vutskits, MD, PhD</td>
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<td>Deep Brain Stimulation and Depression</td>
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<td>Philip A. Starr MD, PhD</td>
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<tr>
<td>9:45 am -10:15 am</td>
<td>Coffee Break with Exhibits</td>
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<tr>
<td>10:15 am - 11:30 am</td>
<td>Poster Session One</td>
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<tr>
<td>Moderator: Jeffrey J. Pasternak, MD</td>
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<tr>
<td>11:30 am - 1:00 pm</td>
<td>Business Lunch and Award Presentations</td>
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<tr>
<td>Resident Research Award Presentations</td>
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<tr>
<td>Moderator: Jeffrey J. Pasternak, MD</td>
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<tr>
<td>Presenter: Chanannait Paisansathan, MD</td>
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<tr>
<td>SNACC Award For Best Abstract in Neuroscience and Perioperative Medicine at the IARS in San Diego, May 2013</td>
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<tr>
<td>Introduction: Jeffrey J. Pasternak, MD</td>
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<tr>
<td>Recipient: Arthur Lelitzke, MD, Loma Linda University</td>
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<tr>
<td>Title of Abstract: Isoflurane Pretreatment Ameliorated Germinal Matrix Hemorrhage-Induced Brain Injury by Activating the Sphingosine Kinase / AKT Pathway in Neonatal Rats</td>
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<tr>
<td>John D. Michenfelder 2013 New Investigator Award Oral Presentation</td>
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<tr>
<td>Moderator: Jeffrey J. Pasternak, MD</td>
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<tr>
<td>Presenter: Michael L. “Luke” James, MD</td>
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<tr>
<td>1:00 pm - 2:30 pm</td>
<td>Mini Symposium Two</td>
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<tr>
<td>Neuroanesthesia: Myths and Fads</td>
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<tr>
<td>Moderator: Gregory J. Crosby, MD</td>
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<tr>
<td>2:30 pm - 3:00 pm</td>
<td>Coffee Break with Exhibits</td>
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<tr>
<td>3:00 pm - 4:15 pm</td>
<td>Poster Session Two</td>
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<tr>
<td>Moderator: Jeffrey J. Pasternak, MD</td>
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<tr>
<td>1.25 AMA earned for attending from 1:00 pm - 2:30 pm</td>
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<tr>
<td>4:15 pm - 5:05 pm</td>
<td>Pro-Con Debate: Large Database Research, Friend or Foe?</td>
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<tr>
<td>Moderator: Cor J. Kalkman, MD, PhD</td>
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<tr>
<td>0.75 AMA earned for attending from 4:15 pm - 5:05 pm</td>
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<tr>
<td>5:05 pm - 5:15 pm</td>
<td>Closing Remarks</td>
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<tr>
<td>Martin Smith, MBBS, FRCA, FFICM</td>
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<tr>
<td>5:15 pm - 5:45 pm</td>
<td>Celebration of the Life of Bill Young</td>
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<tr>
<td>5:45 pm - 7:00 pm</td>
<td>Wine and Cheese Reception</td>
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</tbody>
</table>
Registration Form (Page 1 of 2)

- PLEASE PRINT OR TYPE -

First Name ____________________________________ MI _____ Last Name ___________________________ Credentials ______________

Specialty ____________________________________ Institution ________________________________

Institution/Work Address __________________________________________________________________________

City ____________________________________ State ___________ Zip Code ___________ Country___________

Phone ___________________________ Fax ___________________________ Email Address ________________________

Is this the your first time attending a SNACC Annual Meeting?  □ Yes  □ No  ABA # (for CME reporting) ______________________

How did you hear about SNACC? ________________________________________________________________

Which best describes your field of anesthesiology? (Please select one)  □ Neurosurgical  □ Critical Care  □ Other _______________

Which of the following best describes your medical practice environment? (Please select one)

□ Teaching Institution  □ Hospital  □ Small Private Practice  □ Consulting  □ Large Group Practice  □ Retired  □ Other ________

Meeting Registration

Your registration fee covers Friday’s continental breakfast, lunch, refreshment break, wine and cheese reception, meeting syllabus and handout materials. To register for workshops and dinner event, please see page two of this form.

<table>
<thead>
<tr>
<th></th>
<th>Early Bird Rate through Sept. 9</th>
<th>Rate through Oct. 7</th>
<th>Onsite Rate after Oct. 7</th>
<th>Fee</th>
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</thead>
<tbody>
<tr>
<td>SNACC Member Rates</td>
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</tr>
<tr>
<td>Physician / CRNA</td>
<td>$340</td>
<td>$380</td>
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<tr>
<td>Resident/Medical Student/Emeritus</td>
<td>$170</td>
<td>$210</td>
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<td>Non-Member Rates (Includes a one-year free trial membership)</td>
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<tr>
<td>Physician / CRNA</td>
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<tr>
<td>Resident/Medical Student</td>
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<td>$330</td>
<td>$370</td>
<td>$ ________</td>
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</table>

Page One Total $ ________

Page Two Total $ ________

GRAND TOTAL $ ________

Your registration can be completed online at www.snacc.org or mailed or faxed to the address below.

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Registration Form (Page 2 of 2)

First Name ___________________________ MI _______ Last Name ___________________________ Credentials ______________

Pre-Meeting Workshops, Symposium and Dinner Event Registration
Thursday, October 10, 2013

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
<th>Early Bird Rate through Sept. 9</th>
<th>Rate after Sept. 9</th>
<th>Fee</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:00 pm - 5:00 pm</td>
<td>Mentoring Session <em>(Includes Lunch)</em></td>
<td>SNACC Member: $75</td>
<td>$90</td>
<td>$__________</td>
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<td></td>
<td></td>
<td>Non-Member: $100</td>
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<td></td>
<td></td>
<td>Resident/Fellow: $50</td>
<td>$65</td>
<td>$__________</td>
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<tr>
<td>2:00 pm - 5:00 pm</td>
<td>SNACC Research Symposium</td>
<td>SNACC Member: $50</td>
<td>$65</td>
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<td>Non-Member: $50</td>
<td>$65</td>
<td>$__________</td>
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<tr>
<td>12:00 n - 2:00 pm</td>
<td>Transcranial Doppler (TCD) Ultrasonography Workshop <em>Beginner</em></td>
<td>SNACC Member: $100</td>
<td>$115</td>
<td>$__________</td>
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<td>Non-Member: $100</td>
<td>$115</td>
<td>$__________</td>
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<tr>
<td>1:00 pm - 5:00 pm</td>
<td>Transcranial Doppler (TCD) Ultrasonography Workshop <em>Advanced</em></td>
<td>SNACC Member: $175</td>
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<td>Non-Member: $175</td>
<td>$190</td>
<td>$__________</td>
</tr>
<tr>
<td>6:00 pm - 7:00 pm</td>
<td>41st Annual Meeting Dinner Event <em>(Pre-registration by Oct. 7, 2013 is required).</em></td>
<td>SNACC Member: $50</td>
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<td>q I will attend.</td>
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<td></td>
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<td>Non-Member: $50</td>
<td>$50</td>
<td>$__________</td>
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</tbody>
</table>

Do you have a good basic knowledge in (circle Yes or No):
- Neurophysiological Monitoring: Yes No
- MEP: Yes No
- SSEP: Yes No

Special Needs: q I will require special accommodations (a SNACC staff member will contact you).

Payment Information
- q Check payable to SNACC, U.S. currency
- q VISA
- q MasterCard
- q AMEX
- q Discover

Credit Card No._________________________________ Exp. Date ____________ CVV Security Code* ____________
Credit Card Billing Address ____________________________ Zip Code ____________
Signature ___________________________________________ Printed Name on Card __________________________

*Add the page two total above to the meeting registration total on page one of this form for payment total.

Page Two Total* $____________

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Refund Policy: 80% refund through September 9, 2013; no refunds after September 9, 2013. Refunds will be determined by the date a cancellation request is received in writing at SNACC. Americans with Disabilities Act: The Society for Neuroscience in Anesthesiology and Critical Care has fully complied with the legal requirements of the ADA and the rules and regulations thereof. If any participant in this educational activity is in need of accessible accommodations, please contact SNACC at (804) 565-6360 for assistance.
SNACC Breakfast Panel at the 2013 ASA Annual Meeting

This ASA Breakfast Panel Session is not part of the SNACC 41st Annual Meeting. To attend, you must register through ASA meeting registration. Please check the ASA website for any updates and to register.

Seizures & Anesthetic Implications

October 13, 2013 • Location TBA • 7:00 am - 8:15 am

Please visit www.ASAhq.org to register.

Speakers

Anesthesia for Incidental Surgery in Patients with Epilepsy - W. Andrew Kofke, MD, MBA, FCCM
Anesthetic Management of Epilepsy Surgery - Alex Bekker, MD, PhD
Anesthetic Management of Electroconvulsive Therapy - Elizabeth H. Sinz, MD

Learning Objectives:
1. Review pharmacology of newer antiepileptic medications and the effects of common anesthetic agents on seizure threshold.
2. Select appropriate anesthetic technique for management of incidental surgery in a patient with seizure disorder.
3. Select appropriate anesthetic technique for epilepsy surgery.
4. Discuss anesthetic options for electroconvulsive therapy (ECT).

MARK YOUR CALENDARS!

SNACC 42nd Annual Meeting

October 9-10, 2014
New Orleans, LA

SNACC 43rd Annual Meeting

October 22-23, 2015
San Diego, CA