



INTERFACE

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Ty Smith Dinner

By Robert "Butch" Loeb, MD

The Ty Smith STA dinner at the 2009 ASA Annual Meeting in New Orleans was a memorable one. Over sixty STA members and guests gathered on Sunday evening at Commander's Palace, one of the finest restaurants in the city. Lively conversations ensued over cocktails as friends reunited and newcomers were welcomed. The 5-course dinner of Turtle Soup, Romaine Salad, Pecan Crusted Gulf Fish, and Tournedos of Beef was simply delicious. During a dessert of Pecan Pie a la Mode, our guest speaker, Dr. Orin Guidry, related his harrowing first-hand experiences during Hurricane Katrina.

The annual dinner is held to honor N. Ty Smith, Professor Emeritus at the University of California in San Diego, and one of the founding members of the Society. Ty is well known for his research in cardiac physiology, mathematical modeling, and computer simulation in anesthesia. He was a mentor to many of us in the STA and we always look forward to seeing him with his wife, Penelope, at Society meetings and functions. Ty now pursues his non-medical passion, singing ecclesiastical choral music.

Ty Smith Dinner continued on page 5



Annette Schott, STA Staff, & President Elect
Dr. John Doyle outside Commander's Palace

To Vote for the 2010 STA Board of Directors Visit

www.stahq.org

Deadline: January 8, 2010

In This Issue!

Ty Smith Dinner

1

Executive Director's Report

2

2010 Board of Directors Candidate Statements

3

Remembering Beverlee Anderson

6

2010 Annual Meeting Registration Brochure

8



Report from the (New) Executive Director

By Jane A. Svinicki, CAE, STA Executive Director

Heading into the change of seasons this fall and the holiday season for 2009, many of us may be anxious for 2009 to end. They say the economy is improving, but personally, I think we may just be getting used to the new 'economic realities.'

The changes in the economy, along with the changes in the giving of grants, exhibit funding and the stricter guidelines for CME, are going to continue to squeeze the financial resources of STA, along with all medical societies.

STA has had several financially challenging years. A loss from the January 2008 annual meeting left STA in a financially vulnerable position. During the past year the incredible leadership by the STA Board and the support of the membership has brought STA back to a delicate financial health.

Time and again, I have been amazed by the members of this association and their care for the mission of STA, the advancement of the profession, the quality of patient care and the support for each other. Thank you to the leadership, corporate supporters and physician members of STA. Every time we have reached out with a request, a member has responded.



Patio Room at Commander's Palace
Ty Smith Dinner 2009



STA exhibit at ASA

ASA Ty Smith Dinner

It was a delightful evening for the 60 guests at the STA Ty Smith dinner held at Commander's Palace in New Orleans. Since 1880 Commander's Palace has been a New Orleans landmark known for the award winning quality of its food and picturesque setting in the Garden District. The Ty Smith dinner was a five-course meal with wine featuring many of the restaurant's famous dishes, including turtle soup.

Dr. Orin Guidry, Professor and Vice-Chair for Professional Development in the Department of Anesthesia and Perioperative Medicine at the Medical University of South Carolina, gave a fascinating first-hand account of the technical and workforce challenges encountered during the Hurricane Katrina.

ASA Exhibit Booth

In the ASA exhibit area, Annette Schott and myself staffed an exhibit booth for STA. It was a great opportunity to meet anesthesiologists from across the US, and promote the 2010 annual meeting. STA logo golf balls were given away (one of the advantages of not being pharma) at the booth. As any true golfer knows, you can never have enough golf balls.

STA 2010 Annual Meeting

An exciting Annual meeting is planned for this January. Registration is open now online. The Florida sunshine will help us all enhance our vitamin D! We are looking forward to seeing you there.

Happy and safe holidays to everyone!

Jane A. Svinicki, CAE
jane@svinicki.com



2010 STA Board of Directors Candidate Statements

President Elect

George Blike, MD

Having participated in STA my entire academic career in medicine, it is a profound honor to be nominated to be President Elect of STA. STA, the founders, the members, the community and the culture have fundamentally shaped my career. Our open collaborative society brings medical and industry innovators together to improve anesthesia practice. Our core values of patient care and teamwork have allowed technology innovation to be leveraged in the real world anesthesia practice, truly improving outcomes for patients and families.

Opportunities STA has provided me over 18yrs:

- Resident Member: Jeff Feldman, an attending and mentor while I was in residency at Yale, introduced me STA and the field of Human Factors Engineering
- Newsletter Editor: the entire STA Board supported this activity for 3 years
- Vigilance and Monitoring Research: Matt Weinger, Dwayne Westenskow, and Butch Loeb have shared thoughts and collaborated on data visualization and patient safety research
- Patient safety and simulation: David Feinstein, Dan Raemer, David Gaba, Jeff Cooper also have been important factors in my growth and research in this domain
- Publication in Journal of Clinical Monitoring and Computing: Nick Gravenstein Sr. patiently advised on resources and techniques to improve my writing
- Pediatric sedation safety research: Broad non-OR anesthesia safety research enhanced by Charlotte Bell, METI, and several STA members now in the Simulation Society
- Engineering and Industry: Friendships and collaborations with individuals like Sem Lempotang, Christina DeMur, Jim Welch, and many others that all started at STA meetings

Experiences that position me to lead STA:

- **Clinical:** Active in General Anesthesiology Practice and Pediatric Anesthesiology at Dartmouth Hitchcock Medical Center (still do trauma, OB, neonatal, and general...have stopped doing cardiac anesthesia)
- **Academics:** Professor of Anesthesiology Dartmouth College, Adjunct Appointments in Thayer School of Engineering and the Dartmouth Institute-School of Public Health, 15 yr Member Human Factors and Ergonomics Society

Candidates

Vote online at www.stahq.org
for one person for each position

President Elect

George Blike, MD
Kirk Shelley, MD, PhD

Industry At Large

Dominic Corsale
Christina DeMur

International At Large

Mark Ansermino, MD
Philippe Mavoungou, MD

Director

Joe Orr, MD
John Sudkamp, MD

Voting Closes January 8, 2010

- **Research:** Funded human factors research (FAER, APSE, NPSE, NIH, NASA); Past Section Editor of Journal of Clinical Monitoring and Computing
- **Leadership:** Currently VP of Quality and Patient Safety for Dartmouth-Hitchcock (D-H); Medical Director of D-H Patient Safety Training Center; Immediate Past Secretary of Society for Pediatric Sedation; Board Member of FAER, Member of Research Selection Committee of National Patient Safety Foundation

Leading STA into the future:

STA has had very strong leadership over the years, which has served the society well against varied challenges. As president elect, and then president, I will use the long-term vision of the founding members and the board to execute on strategic short-term work.

- **Where we are:** The last several years have been challenged by the separation of the simulation group and two changes in our administrative team. During Dave Feinstein and Mohamed Rehman's tenures in the last two years, membership has been stabilized, as has administration and meeting management.
- **Where we need to be:** Our core identity has always been that of a vibrant, small, but highly innovative and collaborative group of clinicians and industry experts that uses the annual meeting to build ideas and relationships that produce great value for our specialty of anesthesiology.
- **Work ahead:** If elected, I will bring strong strategic leadership and fiscal management skills to support appropriate measured steps to further solidify the foundational structures of the society to allow our collaborative spirit to flourish. My focus will be to invest time, energy and creative use of resources

President Elect Continued

to further build STA infrastructure to support the production of consistently high quality Annual Meetings. Strong, well run Annual Meetings (with excellent venues and content) produce fiscal stability AND provide the best means of attracting a diverse stream of new members that share our STA values.

STA provides great opportunity to the membership, opportunity that I have directly used and benefited from for 18 years. Again, I am honored to be nominated and will commit to serving the society to the best of my abilities if elected.

Kirk Shelley, MD, PhD

It's my privilege and honor to accept the nomination to the position of STA President. In the late 1990's, Dr. Charlotte Bell invited me to attend a STA Board of Directors (BoD) meeting to "see what goes on there-". I admit I have been going ever since. The BoD is an extraordinary group of talented & committed individuals. Through their efforts the STA has played a key role in the evaluation and adoption of new anesthesiology technologies.

As the chairman of the research committee (they finally found a job for me) it has been my privilege to closely interact with the membership. I feel that the need for a society like ours is greater than ever with the increasing role of technology in the practice of anesthesiology. Importantly, our organization has changed from its earliest days, and needs to continue to evolve to fit the needs of our members and the anesthesia community. It is important that the "old guard" continue to recognize the need to recruit new membership in order to revitalize our core missions of technical education and research.

During the years that I have served the society, and had the privilege of reading and evaluating the submitted abstracts, I have continued to be amazed by the variety and quality of research done in our field on a continuing basis. I have seen the effect that we, as a society, can have on the research in this field, both by giving it a venue in which it can be presented, and by acknowledging that work via our annual awards. One can see the profound effect that this recognition has on the individual researcher. The renewed energy that these awards bestow on these researchers is palpable. The need for a society like ours is greater than ever with the increasing role of technology in the practice of anesthesiology.

Beyond our effect on individual researchers, I have seen us help people come together and we have nurtured their interests until they can stand on their own and form independent associations (i.e. Society for Simulation in Healthcare). The STA has been and must continue to be a beacon into the future of our field. I want us to continue to be a Society which forms a firm foundation from which new technologies can be launched.

Director

Joe Orr, MD

I have been a member of STA and an attendee at the STA annual meeting for the past 18 years. I have watched STA grow and succeed as a society as well as an incubator for ideas that have positively impacted anesthesia technology. STA members, including myself and others from our group at Utah, have applied what they have learned through STA participation to improve existing anesthesia technology and to create novel anesthesia devices.

Early on, STA has had a positive influence on me since I was an engineering graduate student and throughout my career. I feel that as a society, we should be focused on bringing in more young physicians and engineers as members and eventually leaders in this society. My goals as a member of the STA board of directors would be 1) to increase membership and member participation in STA, 2) to raise the profile of the society so that STA can promote improved technology that facilitates better patient care and 3) to continue the STA tradition of holding high quality meetings and conferences that address the interests of the members and the technological issues related to safe anesthesia practice.

John Sudkamp, MD

I am honored to be selected as a member at large candidate. Since 2000, I have enjoyed the benefits and friendships created in the Society for Technology in Anesthesia. I joined as a resident and have grown in my practice as well as in the society. I remain focused on applying the new and some old technology breakthroughs to small and mostly isolated practices. I believe that the Society is a leader in this area specifically because it is a smaller association of professionals working on a common goal. As annual meeting chair for the 2010 meeting I have been the beneficiary of this community as the board and other members have helped to make this program successful. I would like the opportunity to return the favors bestowed on me in the past year by becoming a member at large on the board of directors.

Industry At Large

Dominic Corsale

Over the past 33 years I have been successfully developing and marketing products which have increase patient safety using respiratory gas monitors. My portfolio totals some 20 products for 5 companies, including development of both the SARA mass spectrometer multiplex system and the SARAcap multi-gas infrared monitor. I also lead the team that developed the SAM multi-gas and RAMS Quadra-pole mass spectrometer while serving as General Manger of Anesthesia and Respiratory Care at Marquette Electronics.

Industry At Large Continued

In my current position as Vice President of Business Development at Oridion I have helped introduce the world's first practical and complete capnography solution for both intubated and non intubated patients into over 100 monitor models produced by over two dozen companies. I have held positions in Marketing, Sales and Product Development.

I understand the interface between business process and technical capability and I developed much of that understanding in relationships started and fostered by STA. It would be an honor to serve on the STA board member. I look forward to working with other board members to increase participation from industry.

Christina DeMur

My career started with 10 years as a Clinical Engineer in the OR and Anesthesia at two large Boston teaching hospitals. After Y2k, I transitioned to Siemens/Draeger Medical Monitoring Group where I have been for 9 years and am now the Director of Clinical Engineering. I am committed to finding innovative ways to solve the clinical challenges that continue to exist today across a variety of clinical environments. STA is a terrific organization that works to get all sides to the table to discuss technical challenges and solutions, I would be honored to serve on its Board of Directors.

International At Large

Mark Ansermino, MD

I am Assistant Professor in University of British Columbia's Department of Anesthesiology, Pharmacology and Therapeutics and a pediatric anesthesiologist at the British Columbia's Children's Hospital. My major research focus is on the use of new technology, and the information derived from such advances, to reduce patient risk in anesthesia and intensive care. Innovative technologies are required to improve the collection, analysis and exchange of information. A large amount of physiological data is already recorded and stored in clinical monitoring systems but it is currently under-utilized. Together with an interdisciplinary team of engineers and clinicians I am working to develop methods to extract important features from this frequently redundant information in order to provide decision-making support to clinicians and to monitor the quality of healthcare delivery.

Philippe Mavoungou, MD

It's my pleasure and honor to accept my nomination at the STA Board of Directors as International Member at Large. I am staff anesthesiologist at the Nantes Cancer Research Center (France) and one of the founding member and now chairman of "Societe Francophone pour l'Informatique et le Monitoring en Anesthesie Reanimation - SFIMAR" a francophone society which has similar goals as the STA in France, I am also member of the of the ESCTAIC (European Society for Computing and Technology in Anaesthesia and Intensive Care).

Ty Smith Dinner continued from page 1

Dr. Orin "Fred" Guidry is a former president of the ASA and ABA, and past Chair of the Ochsner Clinic Department of Anesthesiology in New Orleans. He was on the staff of the Ochsner Clinic when Hurricane Katrina struck in August 2005. Dr. Guidry recounted his experiences during that time, explaining how he evacuated the city with his wife, who was born and raised there. He showed how the city was decimated, not by the force of the storm but by the breach of the levies, which caused widespread flooding. Ochsner Clinic was outside of the flood zone, and Dr. Guidry returned from Mississippi to provide patient care during the second week of the emergency. He learned a number of lessons during that experience that are applicable during any regional disaster. 1) Have a cellular phone from a different area code; 2) Keep important documents, computer files, and personal items organized for easy access (consider keeping documents and computer files in plastic tubs); 3) Maintain a bank account and have a credit card from a national bank with branches throughout the country; 4) Evacuate early and take plenty of cash and gasoline when you go; and 5) Consider personal protection, such as carrying a firearm, in disaster areas. Dr. Guidry said that forethought, planning, and hospital leadership during the state of emergency allowed Ochsner Clinic to function during the aftermath of Katrina. With so many homeless and needy people in the surrounding community, the hospital needed to maintain its focus on aiding and housing only the sick and injured. The chaos of the disaster created many ethical dilemmas in which one's head had to overrule the heart.

My interest in computing and technology in Anesthesia has led me to organize several symposiums, tutorials or congresses in France on these topics. I have worked for the improvement of relationships between anesthesiologists and engineers involved in anesthesia and biomedical technology in France.

I have also always pledged for a global networking of the expertise in computing and technology in anesthesia. I have learned a lot attending the STA meetings and I am very grateful to the STA for that. As International Member at Large, I will make every effort to show that the STA and its meetings are a unique friendly place where one may get the most up to date information and reflections in the fast moving field of computing and technology in anesthesia.

Remembering Beverlee Anderson

Charlotte Bell, MD, STA Past President

The recent and sudden passing of Beverlee Anderson, former Executive Director of STA, has reminded all of us of the many cycles of our small, but scrappy society. Even more so, remembering Beverlee reminds us of the impact that individuals have made in sustaining the STA.

Beverlee's influence on all of us was profound. She came to us at a critical time, soon after our previous management company had 'disappeared' after embezzling huge sums from their clients. The STA was floundering economically and organizationally and Jerry Calkins, who knew Beverlee from the Academic Affairs Office of their Phoenix hospital, recommended her as a solution to our administrative needs.

It is not a stretch to say that what followed was both a successful recovery of STA and the development of personal relationships between Beverlee and all of us who were members during those years. She was confident, she was organized, she could herd cats in a blizzard, and she was right nearly every time. She made the society stronger economically, but she also built us into a group of colleagues and friends.

None of us will forget her Southwestern influence, the beautiful and strong turquoise jewelry, the meeting outside of Albuquerque with rock fireplaces and a tequila bar. None of us will forget the dinner parties at the Annual Meeting, with Beverlee inspiring some spectacular costuming. None of us will forget the cowbell, bringing us back to the meeting rooms after breaks. None of us will forget her ability to wrap up endless discussions during long Board meetings. But most of all, none of us will forget that she made all of this fun, without diminishing the importance of coming together for a unified purpose.

I must also acknowledge Beverlee's graciousness in bringing her husband, Dr. William (Bill) Schiller, to so many meetings and events. I suspect we have not thanked him sufficiently for the many behind-the-scenes functions he managed in a last minute crisis. But most of all, the joy that he and Beverlee shared in being together made it a party just to be with them.

Like many of us, I have recently had a flood of personal memories of Beverlee, reminding me of special gifts, such as the Georgia O'Keefe book that I've enjoyed again and again. But her gift of friendship is the one I will treasure most. She is missed and she will be remembered.



Beverlee touched the life of everyone she worked with. I was STA President in 1999, the year after Beverlee began managing STA for us. She took the reins and rode the STA horse from Tucson in 1998 into its rapid growth, encouraging simulation, and carrying it forward to a new era in medical education.

Beverly understood the workings of Continuing Medical Education. She forged for us a plan for STA to structure its Industry Relations in such a way that we could bridge through UCSD to our own CME by 2001. Only she could succeed with this difficult and important task.

Cool confidence, strong will, ultimate competence made her our leader. Personal warmth made her our friend.

Jim Philip, MD, Past President of STA





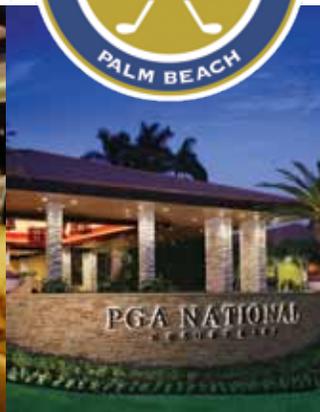
Society for Technology in Anesthesia

2010

STA Annual Meeting

January 13-16, 2010

**PGA National Resort and Spa
West Palm Beach, Florida**



Schedule of Events



2010 STA Annual Meeting

January 13-16, 2010
PGA National Hotel
West Palm Beach, Florida

Wednesday January 13, 2010

Pre Conference: Separate registration required. Visit www.stahq.org for more information and to register.

0800 - 1145

Anesthesia Essentials Course

*Christopher Quartararo, MD
Norma Sandrock, MD
Joan Spiegel, MD*

0800 - 1145

Introduction to AIMS Workshop:

John Sudkamp, MD

1200 - 1300

Lunch

1315 - 1600

Combined Essentials and AIMS Workshop

*Christopher Quartararo, MD
Norma Sandrock, MD
John Sudkamp, MD*

1800 - 1930

Welcome Reception

Thursday January 14, 2010

Session 1: Electronic Health Records (EHRs)

0800 - 0815

Opening Remarks

Mohamed Rehman, MD

0815 - 0930

Keynote Address: Meeting the Challenge of Electronic Health Records for All

Don Detmer, MD

0930 - 1000

Break w/ Exhibit & Posters

Session 2: Technology Application to Large and Small Institutions

David Feinstein, MD – Moderator

1000 - 1035

Technology: One Size Does NOT Fit All

Keith Ruskin, MD

1035 - 1110

Large Institutions v. Private Practice: What's Lost In Translation?

Chris Quartararo, MD

1110 - 1145

Telemonitoring – the Future of Healthcare Delivery

Michael Vigoda, MD, MBA

1145 - 1200

Panel Discussion

1200 - 1315

Lunch with Vendors & Poster viewing

Session 3: Non Operating Room Anesthesia: Can it Work for Big and Small Institutions?

Charlotte Bell, MD – Moderator

1315 - 1335

Building an Ambulatory Pediatric Procedure Center in a Small Regional Hospital

Charlotte Bell, MD

1335 - 1355

PERIoperative Technology for Large Hospitals for Non Operating Room Anesthesia

Keith Ruskin, MD

1355 - 1415

Managing Non Operating Room Locations with a Small Service in a Large, Multi-Hospital Institution

Gordana Stjepanovic, MD

1415 - 1430

Panel Discussion

Schedule of Events Continued on page 5

1430 - 1500

Break w/ Exhibit & Posters

Session 4: Research Awards & Presentation

Kirk Shelley, MD, PhD – Moderator

1500 - 1630

Research Awards & Presentation

1630 - 1745

Guided Poster Viewing with Q&A

Friday January 15, 2010

Session 5: Imaging Technology in Anesthesia

D. John Doyle, MD, PhD – Moderator

0800 - 0840

Ultrasound Imaging in Anesthesia: The State of the Art

Paul Bigeleisen, MD

0840 - 0915

Brain Imaging and the Neurophysiologic Basis of Anesthetic-Induced Unconsciousness

Michael Alkire, MD

0915 - 0935

Airway Imaging and Virtual Bronchoscopy Using Cone-Beam Technology

D. John Doyle, MD, PhD

0935 - 1000

Panel Discussion

1000 - 1030

Break w/ Exhibit & Posters

Session 6: Technology and Safety

Keith Ruskin, MD – Moderator

1030 - 1055

Technology and Aviation Safety: Making Anesthesia Safer

Keith Ruskin, MD

1055 - 1125

Evolution in the Human-Machine Interface

David Kazdan, MD

1125 - 1155

Bringing Innovative Ideas to Market

Joan Spiegel, MD

1155 - 1215

Panel Discussion

1215 - 1330

STA Business Luncheon & Awards

*Mohamed Rehman, MD
President*

Session 7: Concurrent Workshops

1330 - 1530

Young Researchers Workshop

Kirk Shelley, MD, PhD

Computers in Anesthesia (CIA) Show & Tell Contest

Butch Loeb, MD

Interoperability Demonstrations & Workshop

Jullian Goldman, MD

1530 - 1630

The Technology of the Golf Swing: How Virtual Reality & Simulators Have Changed the Game

Director of Instruction, Leadbetter Academy of Golf

1900-?

STA Themed Golf Dinner
(Included in Registration Fees)

Saturday January 16, 2010

0800 - 0900

Session 8: Multicenter Peri-operative Outcomes Group (MPOG): Can the Small Institutions Benefit From It?

Sachin Kheterpal, MD, MBA

Session 9: Medicolegal Implications of the Electronic Anesthesia Record

Jeffrey M. Feldman, MD, MSE – Moderator

0900 - 0930

Malpractice Exposure and the Electronic Anesthesia Record

Jeffrey M. Feldman, MD, MSE

0930 - 1000

The Electronic Anesthesia Record – A View from the Courtroom

Andrew Worek, JD

1000 - 1030

Designing an Anesthesia Information System as a Risk Management Tool

Michael Vigoda, MD, MBA

1030 - 1045

Panel Discussion

1045 - 1100

Break

1100 - 1230

Session 10: Case Presentations: AIMS Lessons Learnt

Mohamed Rehman, MD – Moderator

1440 - 1800

STA Golf Outing

**Pre-registration required!*

Meeting Accreditation Information

Program Objectives

1. Identify challenges and barriers to technology applications that significantly enhance patient safety in large and small medical institutions.
2. Participants will gain an understanding of the benefits, risks and complexity of an A.I.M.S., and what systems would benefit their current practice setting. Participants will engage in a discussion with those who have had experience implementing an A.I.M.S. System.
3. Participants will have a great understanding of current state and usage of imaging technology in the field of Anesthesia. These applications include ultrasound imaging, brain imaging and the neurophysiologic basis of anesthetic induced unconsciousness and airway imaging and virtual bronchoscopy using cone beam technology.
4. Participants will gain a greater understanding of the medicolegal implications of the electronic anesthesia record. Information will be presented on the legal precedents of malpractice exposure and the future of healthcare delivery via Telemonitoring.

Target audience

This program is designed for physicians, engineers or other practitioners in their field of anesthesia care with an emphasis on the current state of technology within the field.

CME Information

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 International Anesthesia Research Society (IARS) and the Society for Technology in Anesthesia (STA). The International Anesthesia Research Society (IARS) is an accredited body of the Accreditation Council for Continuing Medical Education (ACCME).

The International Anesthesia Research Society (IARS) designates this educational activity for a maximum of 13.5 AMA PRA Category 1 Credits.™ Physicians should only claim credit commensurate with the extent of their participation in the activity.

Practice Gaps

The use of technologies is inconsistent among institutions within the United States. However, there is a large socio-political influence that demand its larger use. The content presented will assist physicians in determining the rewards and risks of such implementation of their own practice environment.

Overall Goal Statement

The goal of this program is to provide informational and practical information on implementation of various technologies within the field of Anesthesia

DISCLOSURE

It is the policy of the IARS to comply with the ACCME standards for commercial support of CME. Planning Committee members and related staff disclosures must be on file annually with disclosures made available on program materials. Faculty participating in sponsored or jointly sponsored programs by IARS are required to disclose to the program audience any real or apparent financial relationships with commercial interests related to the content of their presentation(s). Faculty also are responsible for disclosing any discussion of off-label or investigational use of a product.



PGA National Hotel Resort & Spa

400 Avenue of the Champions

Palm Beach Gardens, FL 33418

(800) 633-9150

**\$229.00 STA Group Rate Available
through December 12, 2009**

All reservations must be made individually
through the hotel's reservation department
by calling: (800) 633-9150

**Closest Airport, Palm Beach International (PBI)*

*Served By: AirTran, American, Continental,
Delta, JetBlue, US Airways*

Hotel located 9 miles from PBI