



**Forty-third Annual Meeting**

# **Southeastern Neuroradiological Society**

**In Joint Providership with Amedco**



**October 17-19, 2019**

**Villas of Grand Cypress  
Orlando, FL**

# **SOUTHEASTERN NEURORADIOLOGICAL SOCIETY**

## **43rd Annual Meeting**

**October 17-19, 2019**  
**Villas of Grand Cypress**  
**Orlando, FL**

### **Meeting Objectives**

1. To develop and support standards for the training and practice of neuroradiology
2. To encourage research in neuroradiology
3. To stimulate the development in equipment, instrumentation, and products designed to fill the needs of the neuroradiologist.
4. To promote a closer fellowship and exchange of ideas among neuroradiologists.
5. The corporation shall be educational, scientific, non-sectarian, and nonpolitical.



Jeffrey Bennett, M.D.  
President



JOINTLY ACCREDITED PROVIDER™  
INTERPROFESSIONAL CONTINUING EDUCATION

### **Accreditation**

In support of improving patient care, this activity has been planned and implemented by Amedco LLC and

Southeastern Neuroradiological Society. Amedco LLC is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team. Credit Designation Statement – Amedco LLC designates this live activity for a maximum of 13 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

### **Satisfactory Completion**

Learners must complete an evaluation form to receive a certificate of completion. Your chosen sessions must be attended in their entirety. Partial credit of individual sessions is not available. If you are seeking continuing education credit for a specialty not listed below, it is your responsibility to contact your licensing/certification board to determine course eligibility for your licensing/certification requirement.

### **Thank you to our Sponsors for Corporate Support**

At the time of printing, a complete listing of corporate sponsors was not available.

## Letter from the Program Chair

Dear colleagues,

On behalf of the SENRS, I am very pleased to extend an invitation to the 43rd Annual Meeting of the Southeastern Neuroradiological Society (SENRS). This year the meeting will take place at the Villas of the Grand Cypress, Florida, October 17-19, 2019.

The Villas are in close proximity to Walt Disney World Resort and located amidst 1500 acres of gorgeous landscape on Lake Windsong. There is an on-site Marina and a Jack Nicklaus 45 hole designed golf course, the Marilyn Monroe Spa and a great workout facility. There are 2 driving ranges and putting greens and the Academy of Golf! There are nature trails and resort bicycles, rock climbing wall, sailing and kayaking, fishing, and large pool area with grotto. Additionally, you can hop on a complimentary shuttle to the Disney theme parks; book a FastPass+ card 30 days in advance which will get you in through the park faster with shorter lines.



Linda Gray Leithe, M.D.  
Vice President/Program Chair

This year we will have the Current President of the ASNR, Bob Barr, M.D. from Charlotte, NC and a current member of the SENRS, discuss the concept of the House of Neuroradiology. The educational program, as always, is diverse, timely, and interesting, and includes time for questions and discussion and will have a full complement of SAM sessions to keep you up to date. This year's meeting will feature poster displays, scientific and educational exhibits. Please consider submitting a scientific presentation or a poster, or soliciting the same from your colleagues, residents, or fellows.

The Keynote Speaker for this year's meeting will be Dr. Ilona Schmalfuss, M.D., from University of Florida Health, she has been our past Program Coordinator, Vice President and President. She will discuss Observational, Interpretational and Technical Pitfalls in Head and Neck Imaging.

The *Stump the SENRS Stars* challenge will return for its 18th edition. Teams composed of all the attendees of the conference will compete for the coveted *Caput Astrum* award. This session is always fun and a highlight of the meeting.

The social program will include dinners on Thursday and Friday night, where we can meet and greet, make new friends and catch up with old ones.

Please join us for a great conference and treat yourself and your family to a beautiful resort in close proximity to the Disney theme parks. We look forward to your attendance and participation!

Linda Gray Leithe, M.D.  
Vice President/Program Chair



# SENRS 2019 Program

(subject to change)

Thursday, October 17, 2019

11:00-12:00 Executive committee meeting –  
Gleneagles C

## SCIENTIFIC SESSION 1 Pediatric Neuroimaging & Spine Imaging Muirfield A/B

### SAM 1 Pediatrics: 1.25 SAM Credits Pediatric Neuroimaging

12:05-12:10 Welcome - Linda Gray Leithe, M.D.,  
Program Chair

12:10-12:35 Differences between Pediatric and Adult  
High Grade Tumors (SAM)  
Jeff Bennett, M.D.

12:35-1:00 Sellar and Parasellar Lesions in Children  
and Adolescents  
Noah Sabin, M.D. (SAM)

1:00-1:25 Invasive Fungal Rhinosinusitis In  
Immunocompromised Children  
And Adolescents  
Julie Harreld, M.D. (SAM)

1:25-1:35 Q & A

### SAM 2 Spine and Brain: 1.75 SAM Credits

1:35-2:00 Craniovertebral Junction Anatomy and  
Pathology  
Dan Broderick, M.D. (SAM)

2:00-2:25 Spinal Cord Lesions  
Amit Saindane, M.D. (SAM)

2:25-2:30 Q & A

2:30-2:50 Break – St. Andrews A/B

## SCIENTIFIC SESSION 2 Brain: Degenerative and Tumors Muirfield A/B

2:50-3:15 Dragons, Spices and Everything  
Not Nice: Toxic Encephalopathies  
Andrew Wagner, M.D.

3:15 - 3:45 Systematic Approach to  
Neurodegenerative Disorders  
Erik Middlebrooks, M.D. (SAM)

3:45-4:10 Life Cycle of a Glioblastoma from  
Diagnosis to End  
Sugoto Mukherjee, M.D. (SAM)

4:10-4:35 Post Treatment Imaging of Adult Gliomas  
Adam Sweeney, M.D.

4:35-4:55 Primary CNS Lymphoma in Non-  
Immunocompromised Patients: Current  
Spectrum of Disease, Relevant Imaging,  
Medical and Surgical Aspects of the  
Disease.  
Armando Ruiz, M.D.

5:00-5:25 WIDI Core Curriculum  
Ron Quisling, M.D.

5:30-6:30 Stump the SENRS STARS

7:00 PM Welcome Reception/Dinner - TBA

Friday, October 18, 2018

Business Meeting (Members Only)  
Muirfield A/B (bring your breakfast)

7:15-8:15AM Breakfast and Business Meeting  
St. Andrews A/B

8:15-8:20 Announcements

## SCIENTIFIC SESSION 3 Head and Neck Imaging Muirfield A/B

### SAM 3 Head and Neck: 2.5 SAM Credits

8:20-8:45 Voice Loss  
Alok Bhatt, M.D. (SAM)

8:45- 9:10 Vestibular Schwannoma: What the  
Surgeon Wants to Know  
Gaurav Saigal, M.D. (SAM)

9:10- 9:35 Preoperative Imaging for Cochlear  
Implant Candidates  
Richard Beegle, M.D. (SAM)

9:35- 10:00 Parathyroid 4DCT: Rationale, Practical  
Approach and what the Endocrine  
Surgeon wants to Know  
Paul Bunch, M.D. (SAM)

10:00- 10:25 Understanding TI-Rads and the role of  
Best Practices in Radiology (SAM)  
Ryan Murtagh, M.D.

# SENRS 2019 Program

## CONTINUED

- 10:25-10:50 The How To's of Head and Neck Biopsies  
Danny Dejesus, M.D.
- 10:50-10:55 Q & A
- 10:55-11:15 Break – St Andrews A/B

### SCIENTIFIC SESSION 4

#### Muirfield A/B

- 11:15-11:45 **Key Note Speaker**  
Ilona Schmalfluss, M.D.  
Observational, Interpretational and Technical Pitfalls in Head and Neck Imaging (SAM)
- 11:45- 12:10 House of Neuroradiology  
Bob Barr, M.D.
- 12:10-12:35 ACR Update  
Chris Ullrich, M.D.
- 12:35-1:00 Thespians at the Gate: A Story of Good Care in the Wrong Theater  
Joe Sullivan, M.D.
- 7:00-10:00 Reception and Dinner – TBA

### Saturday October 19, 2019

- 7:00-7:55 Breakfast – St. Andrews A/B
- 7:55-8:00 Announcements

### SCIENTIFIC SESSION 5

#### Neurointerventions and Critical Care

#### Muirfield A/B

#### SAM 4 IR and Epilepsy: 1.5 SAM Credits

- 8:00-8:25 What we can Learn from History: Neurointerventions  
Joe Horton, M.D.

- 8:25-8:50 The Critical Care Neuroradiologist  
Johnny Sandhu, M.D.
- 8:50- 9:15 Update in Acute Stroke Treatment  
Harry Cloft, M.D.
- 9:15-9:40 The Politics of Stroke  
David Miller, M.D.
- 9:40-10:05 Pipeline Flow Diversion in Small and Distal Aneurysms  
Frank Tong, M.D. (SAM)
- 10:05-10:10 Q & A
- 10:10- 10:30 Break – St. Andrews A/B

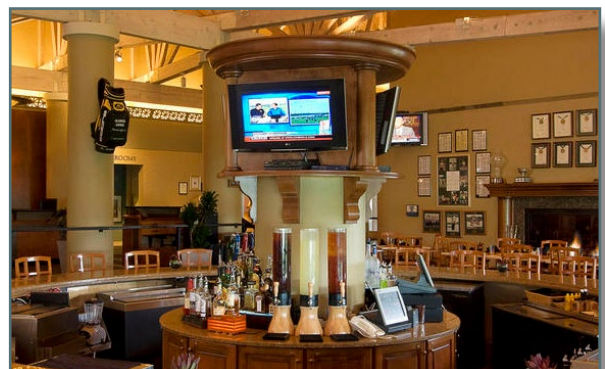
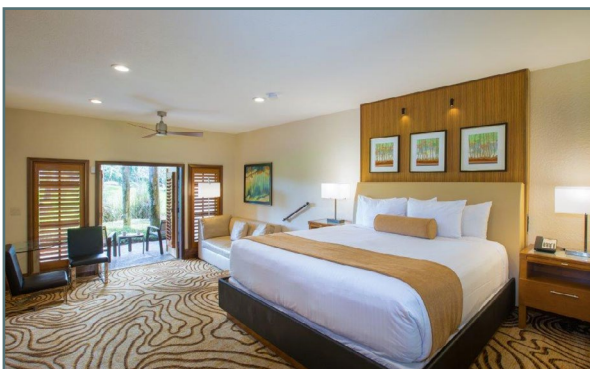
### SCIENTIFIC SESSION 6

#### Neurointerventions and Critical Care

#### Epilepsy/CNS Imaging

#### Muirfield A/B

- 10:30-10:55 “Dammed” to Deluge: The Spectrum of Dural Venous Sinus Disease (SAM)  
Lee Jensen, M.D.
- 10:55-11:20 Vascular Diseases of the Cavernous Sinus  
John Gaughen, M.D.
- 11:20-11:45 Challenging Cases of CNS infection  
Judith Post, M.D.
- 11:45-12:10 7T and its Application and Implications for Epilepsy  
Steve Messina, M.D. (SAM)
- 12:10-12:35 Frequently Missed Neuroimaging findings in Epilepsy  
Vivek Gupta, M.D.
- 12:35-1:00 Application of Nuclear Medicine in CNS Imaging  
Dhana Rajderkar, M.D. (SAM)
- 1:00-1:05 Q & A
- 1:05-1:10 Closing Remarks



## General Meeting Information

### VILLAS OF GRAND CYPRESS, ORLANDO, FLORIDA

#### HOTEL INFORMATION/FACTS

The Villas of Grand Cypress is a AAA Four Diamond resort.

#### Transportation from Orlando Internal Airport

*If you prefer not renting a car as there are shuttles on property are included for going various places on property or the theme parks you can call either numbers below for transportation from airport:*

Skyline Destination Management is the company that you can call for transportation from the airport to the resort. This may be charged to your room if you wish. Phone: (407) 239-2520; email: SkylineVIP@aol.com. Price for a sedan is \$84.00; price for an SUV is \$96.00. You may also have the Concierge at the Villas of Grand Cypress arrange this for you. Phone: (407) 239-1926



#### RESORT AMENITIES

- Availability of high speed wireless internet services in all sleeping rooms
- Use of Academy of Golf Driving Range & 3 regulation golf holes, the 9 hole Pitch 'n Putt course
- Free parking on entire Villas of Grand Cypress Golf Resort
- Internal shuttle service
- Use of health club
- Access to tennis/racquet course
- Bicycles
- Boats
- Morning newspaper delivery
- In-room coffee

#### WORLD-CLASS GOLF

Golf fees are as follows: \$125 (plus state tax, presently 6.5%, but subject to change) per person per day includes 18 holes of golf, shared golf cart, unlimited practice balls prior to play, locker facilities and club storage.

#### Featuring 45 holes of Jack Nicklaus Signature-Designed Golf

Grand Cypress Golf Club offers 45 holes of Jack Nicklaus Signature-designed golf. A truly diverse selection of Orlando golf. The 27-hole North/South/East Course provides the ultimate test of accuracy while the 18-hole New Course provides a Scottish links masterpiece. Grand Cypress Golf Club is open to resort guests.

**North 9** is one of our Head Golf Professional's favorite holes. "This is classic Nicklaus design with lots



of risk/reward on your tee shot and approach shot. North 9 is a great finishing hole if you played the East for your front nine or an ominous sign of what's to come if you are turning to the South!"

**The South Course** features a unique layout including a golf cart bridge that goes over CR535. South 6 is a favorite hole of our Director of Golf, Joe Angelino. "This is a great par five that stretches out to nearly 600 yards from the tips!" The South course is sure to provide a challenge for any golfer.

**The East Course** is more generous, with less bunkering allowing for more run-up shots. Test your skill on our beautiful East 5 island hole which if you come up short, you may find yourself in the water. Pair with the North or the South courses for a great 18 hole experience.



**The New Course** adds another dimension of play to the Orlando golf course scene with steeper and more challenging bunkers and slopes. Set in the midst of an open meadow, the New Course is Jack Nicklaus' tribute and homage to the famed Old Course at St. Andrews, Scotland. This Scottish links masterpiece is complete with double greens, stone bridges and walls, gorse mounds, burns and pot bunkers as deep as 12 feet—all in the spirit of the true Scottish original. Very little water comes into play on the New Course, but when it does it will challenge you. Very few trees are located within the

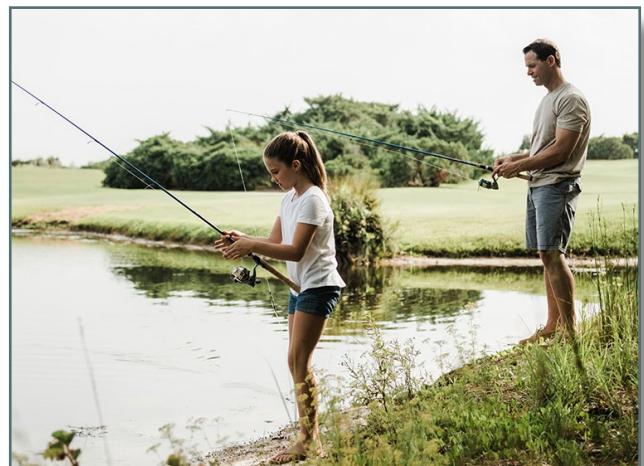
interior of the course, creating generous landing areas. However, an errant tee shot could find its way into one of our 150 pot bunkers. For more information or to reserve tee times, call us at 407-239-1909 or [click here to email us](#).

### Academy of Golf

The Grand Cypress Academy of Golf features a variety of golf school programs and private, one-on-one golf lessons that can be tailored to any aspect of the game. With unparalleled instruction and the most advanced teaching methods you are sure to improve your performance. Call us now at 407-239-1975 or request your program [here](#).

### OUTDOOR ACTIVITIES

- Forty-five holes of Jack Nicklaus Signature-Designed Golf
- Grand Cypress Academy of Golf featuring three regulation practice holes (Par 3,4 and 5)
- Fitness center
- Swimming pool, pool bar, sauna, and hot tub within walking distance of your room
- Poolside foosball, ping pong, corn hole
- Poolside seasonal activities for every family member
- Complimentary bicycle fleet and trails
- Walking and jogging trails
- Fishing poles and tackle
- In-room spa services



## JUST A SHUTTLE RIDE AWAY (at The Hyatt Grand Cypress)

- Half-acre pool with 12 waterfalls, multiple slides, and sun deck
- Grand Cypress Racquet Club
- Marilyn Monroe Spa
- Pitch 'n' Putt Golf
- Rock climbing wall
- Lake Windsong water sports
- Game room
- Additional dining options such as Hemingway's (dressy casual, dinner only) and LakeHouse (resort casual, breakfast/lunch/dinner).
- On the Rocks poolside lounge, Hurricanes Lounge and Trellises Lounge. Guests have charging privileges from the Hyatt to the Villas.



## KIDS ACTIVITIES

Camp Hyatt, an exciting activities program designed to provide children with endless fun and adventure. Your kids will love making a splash at our lagoon-style pool, getting soaked on the water slides, or participating in craft activities that build creative minds. Nature enthusiasts will enjoy organized nature hikes and bike rides in a lush, tropical setting, as well as scavenger hunts and evening marshmallow roasting. Camp Hyatt welcomes children ages 3–12 who are completely bathroom independent. During the fall, winter, and spring (from Labor Day through Memorial Day), Camp Hyatt is available on weekends only.

Transportation is provided from the resort to many local attractions, including a neighborhood Farmers Market and scenic nature trail. Learn how you can #LiveLikeALocal and ask our concierge for help in creating an itinerary.

## WALT DISNEY WORLD®

Complimentary transportation is available to Walt Disney World® Theme Parks. Purchase your tickets with concierge and receive FastPass+ access up to 30 days prior to your visit - starting at 7:00 AM. (see below).

Purchase your tickets [here](#), OR you can contact the concierge at Villas of Grand Cypress at (407) 239-1926 or email [concierge@villasgrandcypress.com](mailto:concierge@villasgrandcypress.com). For Disney tickets they can assist with purchasing them online and you can pick up tickets at the will-call at Disney, or if you do this a couple of weeks in advance, the tickets can be delivered to the hotel for your arrival. The Hyatt Grand Cypress also sells tickets, however, there is usually a convenience fee for having them printed there. FastPass+ info: <https://disneyworld.disney.go.com/faq/fast-pass-plus/product-description/>



## OTHER ACTIVITIES

- Seaventure Tour/Discovery Cove (Walk On The Wild Side)
- Airboat Cruise (Boggy Creek Airboat Rides)
- Wakeboarding at Orlando Watersports Complex.
- Disney Springs Scenic Boat Tour
- Paddleboat at Lake Eola
- Winter Garden Farmer's Market
- Tibet Butler Nature Preserve



## Southeastern Neuroradiological Society

### 43rd Annual Meeting

October 17-19, 2019

Villas of the Grand Cypress, Orlando, FL

#### Annual Meeting Registration Form

(Please print legibly or type)

Name \_\_\_\_\_ Nickname (for badge) \_\_\_\_\_

Institution \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State/Province \_\_\_\_\_ Zip/Postal Code \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_ E-mail \_\_\_\_\_

#### REGISTRATION FEES

Please indicate appropriate meeting registration fee below (U.S. Funds only). **YOU MAY NOW PAY YOUR REGISTRATION FEE(s) ONLINE** at <http://senrs.net/payonline>. Please e-mail registration form to [fhollow@emory.edu](mailto:fhollow@emory.edu)

\_\_\_\_\_ SENRS Member \$400.00 (Spouse \$275) \_\_\_\_\_ Non-member \$600.00 (Spouse \$275)

\_\_\_\_\_ Fellow/Trainee \$275 (Spouse \$275) \_\_\_\_\_ Vendor N/C (Spouse \$275)

#### Spouse/Guest Information

Name of Spouse/Guest Attending, (if applicable) \_\_\_\_\_

I will attend:

\_\_\_\_\_ Thursday Welcome Dinner (# adults attending \_\_\_\_\_; #children attending \_\_\_\_\_ age(s) \_\_\_\_\_)

\_\_\_\_\_ Friday Dinner (# attending \_\_\_\_\_; #children attending \_\_\_\_\_ age(s) \_\_\_\_\_)

\_\_\_\_\_ Friday Business Breakfast Meeting (members only)

Dietary Restrictions: \_\_\_\_\_

**\*Please note:** The SENRS has to pay for members and/or vendors indicating that they were going to be at the evening functions, and then either not showing, or canceling less than 3 days prior to the event. All catering services have a 3-day cancellation policy, or the group will be billed. Therefore, if you indicate that you will be at the evening functions, and do not adhere to the 3-day cancellation policy you will be assessed the amount of the dinners.

E-mail your completed registration form to [fhollow@emory.edu](mailto:fhollow@emory.edu). For any questions, please e-mail or call Francine at 678-471-3692.

**WELCOME**  
**Villas of Grand Cypress Reservation Form**  
Southeastern Neuroradiological Society Annual Conference  
Wednesday, October 16, 2019 – Sunday, October 20, 2019

**Name:** \_\_\_\_\_ **Phone #:** \_\_\_\_\_  
**Address:** \_\_\_\_\_ **Fax #:** \_\_\_\_\_  
**City & State:** \_\_\_\_\_ **Email Address:** \_\_\_\_\_  
**Zip Code:** \_\_\_\_\_ **# In Party:** \_\_\_\_\_  
**Arrival Date:** \_\_\_\_\_ **Approx. Arrival Time** \_\_\_\_\_  
(Check-in time: 4:00pm)  
**Departure Date:** \_\_\_\_\_ **Approx. Departure Time:** \_\_\_\_\_  
Check-out time: 12:00pm

*Specific accommodations, listed below have been reserved for your group. To allow for confirmation, please complete and return this form by **Monday, September 2, 2019.***

**ACCOMMODATIONS REQUESTED:**

- ☐ \$281.00 per Club Suite  
☐ \$381.00 per One Bedroom Villa
- ☐ The above rates will be honored 3 days prior and 3 days after your meeting upon request subject to availability.  
☐ If Villa (s) or room (s) are to be occupied by more than one person, please include names in "sharing accommodations" area.  
☐ All rates are subject to a 12.5% state and local taxes & \$10.00 per person for baggage handling,

**SHARING ACCOMMODATIONS:** \_\_\_\_\_

*In order to guarantee your reservation, please enclose one night's deposit based on room type chosen. Print your credit card number and expiration date in the specified area (reservations received without a deposit or credit card guarantee will not be confirmed).*

**PAYMENT ENCLOSED:**

Check for one night's room rate \_\_\_\_\_ Credit Card Type: \_\_\_\_\_ Card Number: \_\_\_\_\_ Exp: \_\_\_\_\_

- ☐ For your convenience we accept the following credit cards:  
☐ VISA, MASTERCARD, AMERICAN EXPRESS, & DISCOVER.  
☐ For more information, please call our toll free number 1 (800) 835-7377.

**INDIVIDUAL CANCELLATION MUST BE RECEIVED 7-DAYS IN ADVANCE TO AVOID LOSS OF FIRST NIGHT'S DEPOSIT.**

**PLEASE RETURN TO:**

**The Villas of Grand Cypress  
Reservation Department  
One North Jacaranda  
Orlando, Florida 32836-6699  
Phone: (800) 835-7377  
Fax: (407) 239-7219**

**To reserve online please go to** <http://bookings.ihotelier.com/bookings.jsp?groupID=2098414&hotelID=73372>

# Upcoming Meetings

Forty-fourth Annual Meeting  
October 22-24, 2020

The Greenbrier  
White Sulphur Springs, WV



Forty-fifth Annual Meeting  
October 21-23, 2021

The Henderson  
Destin, FL