



# North Carolina Spine Society 2017 Annual Meeting

*Includes 1 hour of opioid prescribing CME credit to satisfy the new requirement!*

August 18-20, 2017  
The Ballantyne Hotel  
Charlotte, NC

This continuing medical education activity is jointly provided by the  
North Carolina Spine Society  
and Southern Regional Area Health Education Center

# NORTH CAROLINA SPINE SOCIETY

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## Target Audience and Purpose

The North Carolina Spine Society is pleased to announce its 2017 Annual Meeting, to be held at the Ballantyne Hotel in Charlotte. This course is designed for practicing and academic orthopaedic and neurosurgical spine surgeons, fellows, residents, medical students, and physician extenders to educate and facilitate discussion on innovative surgical techniques, including robotic spine surgery, and to facilitate discussion on current outcome metrics as it relates to quality and value in spine care.

## Objectives

At the conclusion of this educational activity, participants shall be able to:

- Discuss and analyze the value of expandable interbody fusion techniques.
- Discuss and analyze survival outcomes in patients undergoing surgical treatment of spinal metastatic disease.
- Evaluate and develop an implementation plan for single position lateral and posterior instrumentation.
- Discuss and assess the value of robotic guided spinal instrumentation.
- Analyze the utility of patient specific screw guide systems.
- Explain and discuss 90-day bundle payment plans.
- Discuss the potential value of experimental Spinal Cord Injury (SCI) surgery.
- Analyze and improve utilization of opioid pain medications.
- Identify current recommended indications/contraindications and specific spinal pathology which can be treated using MIS spine techniques.
- Discuss the association between patients' expectations and satisfaction scores.

*AMA PRA Category 1 Credit™* - 6.75 hours

## Credit Statement

The Southern Regional AHEC designates this live activity for a maximum of 6.75 *AMA PRA Category 1 Credit(s)™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

## Accreditation

This activity has been planned and implemented in accordance with the Essentials and Standards of the North Carolina Medical Society through the joint providership of the Southern Regional AHEC and the North Carolina Spine Society. The Southern Regional AHEC is accredited by the NCMS to provide continuing medical education for physicians.

## Additional Credit

Other health professionals will receive Southern Regional AHEC CEU and/or contact hours and a certificate of attendance from an *AMA PRA Category 1™* activity. These certificates are accepted by the NC boards for physician assistants, nurse practitioners, and nurses. License requirements are subject to change. Southern Regional AHEC recommends that participants contact their licensing board with specific questions. Southern Regional AHEC will provide 0.7 Continuing Education Units (6.75 contact hours) to participants upon completion of this activity.

## Disclosure Statement

The Southern Regional AHEC adheres to ACCME Essential Areas and Policies regarding industry support of continuing medical education. Disclosure of faculty/planning committee members and commercial relationships will be made known at the activity. Speakers are also expected to openly disclose a discussion of any off-label, experimental, or investigational use of drugs or devices in their presentations.

# 2017 ANNUAL MEETING

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## Registration Information

The registration fee for this meeting is \$250 for NCSS member physicians, \$475 for nonmember physicians or PharmDs, and \$125 for physician extenders/mid-level providers. The fee for emeritus/retired physicians is \$150. Residents, fellows-in-training and medical students may attend the meeting free of charge. Registration fees include continental breakfasts and breaks, the Friday evening reception and dinner for the participant. Guest fees for the Friday dinner are noted on the registration form. Register securely online at <http://www.cvent.com/d/n5qshp>, or complete the registration form in this brochure and return it by July 26 to receive the early-bird rate. Registrations received after that date will be charged a higher fee.

If you would like to receive a paper copy of the presentation handouts, please indicate this when registering. Otherwise, presentations will be available for download approximately one week prior to the meeting.

Please note that refunds of registration fees will not be made after Friday, August 11. Refunds, less \$25, will be made for cancellations received prior to that date.

## Hotel Features and Accommodations - Reserve Your Room by July 28

The four-diamond rated Ballantyne Hotel is located on the south side of Charlotte, and features an exquisite art collection, European-style spa, indoor and outdoor pools, golf course and jogging trail. The Ballantyne has set aside a block of rooms in the name NC Spine Society until July 28 at a special rate of \$229 plus taxes. Please contact the hotel directly to make reservations at (888) 627-8048, or reserve accommodations online at <https://www.starwoodmeeting.com/Book/NCSpineSociety2017AnnualMeeting>. Don't delay!

## Optional Golf Tournament and Golf Academy

The Ballantyne Golf Course has been rated as a "Best Place to Play" by readers of Golf Digest, receiving a 4.5 star rating. Carefully crafted into the natural hills of the Piedmont, the par-71 course features several water features and laser-leveled tee boxes. Pre-registration and handicaps are required for the optional golf tournament on Saturday afternoon; fees are just \$125 including boxed lunch, greens fee and cart.

The Dana Rader Golf Academy at the Ballantyne is the Carolinas' only Golf Channel Academy, and is consistently rated in the top 25 golf schools in the nation. Call the Academy at (704) 542-7635 for more information.

## Optional Sport Clay Shooting

Rocky Creek Sporting Clays, located 45 minutes south of the Ballantyne Hotel, encompasses 300 acres and offers an entertaining course with shots similar to what would be seen in the field, with such species as quail, pheasants, ducks, geese, and doves. Shooters of all skill levels including novices are welcome. Pre-registration is required to participate in the optional sport clay shooting outing on Saturday afternoon; fees are \$100 including boxed lunch, gun rental, ammo, targets, ear protection, golf cart, and safety instruction.

## Americans with Disabilities Act

Southern Regional AHEC and the NCSS are fully committed to the principle of equal educational opportunities for all individuals and do not discriminate on the basis of any characteristics protected by federal or state law. If you require any of the auxiliary aids or services identified in the Americans with Disabilities Act in order to participate in this conference, please call Nancy Lowe at the NCSS at (919) 833-3836 no later than ten business days before the date of the activity.

## Questions?

If you have questions about the 2017 Annual Meeting or need assistance, contact the NCSS at (919) 833-3836 or (800) 722-1350, or [nlowe@ncmedsoc.org](mailto:nlowe@ncmedsoc.org).

## Friday, August 18, 2017

4:00pm-7:00pm	Registration
6:00pm-7:30pm	Welcome Reception and Networking
7:30pm-9:30pm	Dinner and Program (pre-registration required)
7:45pm	Welcome and Introductions (Sam Chewning, MD, MBA, President & Program Chair)
8:00pm-8:45pm	The "Worth" of a Neurosurgeon - Michael Y. Wang, MD, FACS

## Saturday, August 19, 2017

7:00am-12:00pm	Registration
7:00am-8:00am	Continental Breakfast and Networking
8:00am-8:05am	Welcome and Introductions (Sam Chewning, MD, MBA)
8:05am-8:45am	ERAS "Awake" Lumbar Spinal Fusion - Michael Y. Wang, MD, FACS
8:45am-9:00am	Questions/Discussion
9:00am-9:10am	Expandable Interbody Spacers: A Paradigm Shift in the Restoration of Disc Space Geometry - Sergio Mendoza-Lattes, MD
9:10am-9:20am	Functional and Survival Outcomes in Patients Undergoing Surgical Treatment for Metastatic Disease of the Spine - Vignesh K. Alamanda, MD
9:20am-10:00am	Business Meeting - Sam Chewning, MD, MBA ( <i>no credit will be awarded</i> )
10:00am-10:10am	Single-Position Lateral Lumbar Interbody Fusion and Percutaneous Pedicle Screw Fixation Allows for Adequate Correction of Spinal Sagittal Imbalance - J. Alex Thomas, MD
10:10am-10:45am	Break and Networking
10:45am-10:55am	Assessment of Robotic Guided Instrumentation: Accuracy, Learning Curve, and Revisions - Todd M. "Matt" Chapman, Jr., MD
10:55am-11:05am	A Patient Specific Screw Guide System: A Quantitative Analysis of Safety and Efficacy - Bruce Darden, MD
11:05am-11:15am	Is There Value in Retrospective 90-Day Bundle Payment Models for Lumbar Spine Fusion Procedures? - Susan Odum, PhD
11:15am-11:25pm	Spinal Cord Injury Prospective Surgical Treatment Study - Domagoj Coric, MD
11:25am-12:00pm	Questions/Discussion
12:00pm	Adjourn
1:00pm	Optional Golf Tournament or Sport Clay Shooting Outing (Pre-registration required) Free afternoon and evening

## Sunday, August 20, 2017

7:00am-11:00am	Registration
7:00am-7:45am	Continental Breakfast and Networking
7:45am-7:50am	Introductions (Sam Chewning, MD, MBA)
7:50am-8:10am	Resident Research Grant Updates
7:50am-7:55am	Compare Demographic and Clinical Features of Cervical and Lumbar Operated Sites and Analyze New Unpublished Data on the Proliferative Response of Annulus Cells Derived from Cervical vs. Lumbar Discs - Daniel Leas, MD (CMC)
7:55am-8:00am	Does Implementation of a Perioperative Bundle to Standardize Care Decrease SSI Rates and Create a Favorable Economic Profile? - Kimberly Hoang, MD (Duke)
8:00am-8:05am	Estimating the Impact of Surgical vs. Conservative Management of C2 Fractures in the Elderly US Population - Michael Catalino, MD, MS (UNC)
8:05am-8:10am	Will Augmented Reality Prove to be a Useful Tool for Spine Surgery and the Natural Evolution of Intraoperative Navigation? - Mark Frenkel, MD, MA (WFU)
8:10am-8:45am	MIS Spinal Deformity Surgery - Michael Y. Wang, MD, FACS
8:45am-8:55am	Questions/Discussion
8:55am-9:05am	Radiographic Sagittal Alignment in the Asymptomatic Elderly: What is Normal for Age? - Brad Segebarth, MD
9:05am-9:50am	Opioid Prescribing to Save Lives and Prevent Abuse - Christopher Grubb, MD
9:50am-10:00am	Questions/Discussion
10:00am-10:10am	Minimally-Invasive Thoraco-Lumbar Corpectomies: Evolution of a Technique - Sergio Mendoza-Lattes, MD
10:10am-10:15am	Questions/Discussion
10:15am-11:00am	Break and Networking
11:00am-11:15am	Minimally Invasive Tubular Access for Posterior Cervical Foraminotomy: An Effective Technique with Low Morbidity - Byron Branch, MD
11:15am-11:25am	Is There an Association between Patients' Expectations and Satisfaction Scores in an Outpatient Setting? - Susan Odum, PhD
11:25am-12:00pm	Questions/Discussion
12:00pm	Wrap Up/ Adjourn

## Program Faculty

Keynote Speaker:  
**Michael Y. Wang, MD, FACS**  
President-Elect,  
Society of University  
Neurosurgeons  
Director of Neurosurgery,  
Spine Fellowship Director and  
Professor,  
University of Miami  
Miller School of Medicine  
Miami, FL

Vignesh K. Alamanda, MD  
Carolinas Healthcare System  
Charlotte, NC

Byron Branch, MD  
Carolina Neurosurgery and Spine Associates  
Charlotte, NC

Todd M. "Matt" Chapman, Jr., MD  
OrthoCarolina  
Charlotte, NC

Domagoj Coric, MD  
Carolina Neurosurgery and Spine Associates  
Charlotte, NC

Bruce Darden, MD  
OrthoCarolina  
Charlotte, NC

Christopher Grubb, MD  
East Carolina Anesthesia Associates  
Greenville, NC

Sergio Mendoza-Lattes, MD  
Duke University Medical Center  
Durham, NC

Susan Odum, PhD  
OrthoCarolina Research Institute  
Charlotte, NC

Brad Segebarth, MD  
OrthoCarolina  
Charlotte, NC

J. Alex Thomas, MD  
Atlantic Neurosurgical and Spine Specialists  
Wilmington, NC

Resident Grant Awardees:

Michael Catalino, MD, MS  
University of North Carolina School of  
Medicine  
Chapel Hill, NC

Mark Frenkel, MD, MA  
Wake Forest School of Medicine  
Winston-Salem, NC

Kimberly Hoang, MD  
Duke University School of Medicine  
Durham, NC

Daniel Leas, MD  
Carolinas Healthcare  
Charlotte, NC

# MEETING REGISTRATION FORM

NC Spine Society 2017 Annual Meeting / August 18-20, 2017 / The Ballantyne Hotel, Charlotte, North Carolina

Register securely online at: <http://www.cvent.com/d/n5qshp>

## 1. Personal Information (Please print)

Complete this registration form (one per person) and return by fax or mail with payment due.

Name: \_\_\_\_\_

Practice Name: \_\_\_\_\_

First Name for Badge: \_\_\_\_\_ Last 4 Digits of SSN (required for CME): \_\_\_\_ \_

Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ E-mail: \_\_\_\_\_

Spouse/Guest Name (if attending): \_\_\_\_\_

Emergency Contact: (Name) \_\_\_\_\_ (Phone) \_\_\_\_\_

Dietary Restrictions: \_\_\_\_\_ Special Needs: \_\_\_\_\_

## 2. Registration Fees (SC members may attend at the NC member rate; 2017 dues must be current to qualify for member rate.)

	Prior to 7/26	After 7/26
____ Physician-NCSS member .....	\$250.....	\$300
____ Physician-NCSS non-member or PharmD.....	\$475.....	\$525
____ Emeritus/Retired physician.....	\$150.....	\$200
____ Physician extender/Mid-level provider.....	\$125.....	\$175
____ Resident/Fellow/Medical student.....	\$-0-.....	\$-0-

Presentation handouts will be available for download online approximately one week prior to the meeting. If you prefer to have a printed paper copy of the lecture handouts, you may purchase a paper syllabus for \$25; [check here](#) to order a paper syllabus: \_\_\_\_\_

## 3. Social Activities (Pre-registration required for all functions.)

Please indicate number attending:

- \_\_\_\_ Friday Reception and Dinner Program - registrant @ n/c  
\_\_\_\_ Friday Reception and Dinner Program - adult guest(s) @ \$50  
\_\_\_\_ Saturday Golf Tournament @ \$125    Handicap or average score \_\_\_\_ Preferred pairing \_\_\_\_\_  
\_\_\_\_ Saturday Sporting Clays Outing @ \$100 \_\_\_\_\_

## 4. Total Fees (Total of sections 2 and 3; include \$25 for paper syllabus) (No refunds after August 11)

Enclosed is check # \_\_\_\_\_ for \$ \_\_\_\_\_ payable to NCSS, or

Credit Card Type: Visa \_\_\_\_\_ MasterCard \_\_\_\_\_ American Express \_\_\_\_\_

Name as it appears on Credit Card: \_\_\_\_\_

Account #: \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Exp. Date: \_\_\_\_ / \_\_\_\_ CVV#: \_\_\_\_\_

Billing Address and Zip Code: \_\_\_\_\_

Register securely online, or send this form and payment to NCSS, PO Box 27167, Raleigh, NC 27611

[nlowe@ncmedsoc.org](mailto:nlowe@ncmedsoc.org) / FAX: (919) 833-2023

# NORTH CAROLINA SPINE SOCIETY



## 2017 ANNUAL MEETING

August 18-20, 2017 - Charlotte, NC

North Carolina Spine Society  
PO Box 27167  
Raleigh, NC 27611