

Tennessee
Neurosurgical
Society
Annual Meeting

August 8-10, 2014

Westin Beale Street, Memphis Downtown



American
Association of
Neurological
Surgeons

Jointly Provided by the AANS



The Tennessee Neurosurgical Society

Agenda

PROGRAM with LEARNING OBJECTIVES

The Tennessee Neurosurgical Society exists to represent the interests of all neurosurgeons in the state of Tennessee. Our goal is to provide for education and collegiality between members and to provide a cohesive voice representing the neurosurgical perspective in political and public forums for issues that affect our region.

Program Learning Objectives

Upon completion of this educational activity, participants should be able to:

1. *Discuss the implementation of healthcare reform via the Affordable Care Act, future implementation of ICD-10 and emerging payment and reimbursement strategies seen in the Tennessee market.*
2. *Discuss current treatment paradigms for central nervous system neoplasms including surgical management vs. radio surgery applications.*
3. *Describe the current state of medical/socioeconomic issues facing neurosurgeons in Tennessee.*
4. *Discuss the best current treatment for acute subarachnoid hemorrhage.*
5. *Articulate the role of protective helmets in various athletic activities.*
6. *Discuss and implement recent advances regarding the current standard of care for spinal surgery.*

ALL TIMES ARE CENTRAL STANDARD TIME ZONE

Friday, August 8th, 2014

4:30-6:30pm Exhibitor Setup

6:30-9:30pm *Opening Reception at the Westin Downtown Memphis*

Saturday, August 9, 2014

7:00- Registration, Breakfast, Exhibits

8:00-8:05 **Welcome, Announcements, Introduction-
Michael Fromke, President, TNS 2013-2014**

8:05-10:25 Scientific Sessions Block 1 – Michael Fromke

8:05-8:25: **Senator Mark Green, MD:** “Physicians in the Political Process, It's Time We Lead”

8:25-8:45: **Daniel Kueter:** “Update on Artificial Cervical Disc Surgery”

8:45-9:05: **Lola Chambless:** “Making minimally invasive maximally successful - Incorporating endoscopy in your neurosurgical practice”

9:05-9:25: **James Killifer:** “Trigeminal neuralgia treatment and outcomes”

9:25-9:45: **Adam Arthur:** “WEB-a new option for wide necked bifurcation aneurysms”

9:45-10:05: **Madison Michael:** “Closure of Posterior Fossa Dura: Simpler is Better”

10:05-10:25: **Morgan Jones:** “Fact or Fiction? A Review of Treatment Strategies in Subarachnoid Hemorrhage”

10:25-10:50: Discussions over coffee in exhibit hall

10:50-12:50 Scientific Sessions Block 2 – Lola Chambless

10:50-11:10: **John C. Wellons:** “Results of the SOPHH Trial comparing surgical treatment of HCP due to IVH of prematurity”

11:10-11:30: **Brandon Baughman:** “Management of neurocognitive and behavioral sequelae in CNS cancer”

11:30-11:50: **Paul Kilmo:** “Five-year Institutional Bibliometrics for 103 U.S. Neurosurgical Residency Programs”

11:50-12:10: **Greg Lanford:** “Bundled and Emergent Payment Strategies”

12:10-12:30: **Robin Smith:** “Practicing in TN: Better for Patients and Providers”

12:30-12:50: **Seyed Emadian:** “Historical Perspectives on Protective Helmets in Cycling”

12:50-1:00: Grab box lunch in the back of the room~

1:00-1:05: Introduction - Michael Fromke

Keynote Speaker for Clarence B. Watridge Lecture –

1:05-1:35: Dr. David Cunningham: “The Road to Radiosurgery in Tennessee”

1:35 – Short Business Meeting- Neurosurgeons only

Sunday, August 10, 2014

7:00- Breakfast with Exhibitors/Registration

8:00-10:00: Scientific Sessions Block 3 – Daniel Kueter

8:00-8:20: **Clarence Watridge:** “Vigilance in the Medical Marketplace”

8:20-8:40: **Frederick Boop:** “The status of graduate medical education funding in the US”

8:40-9:20: **Matthew Wood:** “Update of Workers Compensation and Tennessee Work Comp Law”

9:20-9:25: Introduction - Frederick Boop

TNS 2014 Meeting Special Speaker - Anil Nanda, MD

“Ask not for whom the Bells Toll: Neurosurgery and Public Health”

9:25-10:00: Presentations/Questions

10:00-10:30: *Discussions over coffee in exhibit hall*

10:30-1:10: Scientific Sessions Block 4 – Matthew Wood

“The Resident’s Corner”

10:30-10:50: **Jason Agran:** “Restoration of standing and walking using intraspinal motor stimulation in paralyzed patients.”

10:50-11:10: **Nick Khan:** “Fibrinolysis for Intraventricular Hemorrhage: An Updated Meta-Analysis and Systematic Review of the Literature”

11:10-11:30: **Peter Morone:** “Outcomes of carotid artery angioplasty and stenting in patients after treatment of acute ischemic stroke”

11:30-11:50: **Adam Befeler:** “Outpatient Follow-Up Imaging in Traumatic Brain Injury: Beneficial or Not?”

11:50-12:10: **David Voce:** “An NF-kB Dependent Gene Set Identifies the Long Non-Coding RNA, MALAT1, as a Novel Target for Use in Malignant Glioma”

12:10-12:30: **Michael DeCuypere:** “Surgery and Gemcitabine Chemotherapy Improve Survival in a Preclinical Mouse Model of Choroid Plexus Carcinoma”

12:30-12:50: **Scott Parker:** “Effect of pre-operative narcotic use on outcomes and complications of patients undergoing elective spine surgery”

12:50-1:10: **Prayash Patel:** “The Expanded Transforaminal Approach to the Third Ventricle”

Adjourn

This activity will consist of live presentations, with interactive discussion, case studies, and abstract presentations.

Participants’ Profile – Tennessee Neurosurgeons, Neurosurgical Residents from Vanderbilt and the University of Tennessee, Advanced Nursing Personnel, Office managers/administrators.

The Annual Tennessee Neurosurgical Society meeting is an opportunity for fellow neurosurgeons across the state of Tennessee to gather together and share ideas, clinical experience, surgical techniques and offer advice to fellow colleagues. This is a weekend meeting in a locale that is easily accessible to neurosurgeons throughout Tennessee. The format allows for participation by residents from Vanderbilt University and the University of Tennessee-Memphis. We have also been able to include PA’s and NP’s as well, enhancing a close and intimate atmosphere to meet educational objectives.

FEATURED KEYNOTE SPEAKER - TNS 2014



Dr. David Cunningham

Dr. David Cunningham was born in Pleasant Hill, Tennessee, grew up in the Cumberland Mountains in the small town of Spencer, TN. He attended the University of Tennessee, Knoxville, subsequently transferring to the University of Tennessee School of Pharmacy in Memphis, Tennessee where he earned a Doctors Degree in Pharmacy. He then attended the University of Tennessee School of Medicine and following graduation with an M.D. degree, completed an internship and a general surgery residency at the Methodist Hospital of Memphis. Following his internship and general surgery residencies, he completed a residency in neurological surgery, rotating at Methodist Hospital, the Veterans Hospital and the University of Tennessee Medical Center. In 1995 he completed training at the University of Pittsburgh in Gamma Knife Stereotactic Radiosurgery. Dr. Cunningham was a member of the Neurosurgical Group of Memphis which merged with the Semmes-Murphey Clinic in 1995. Dr. Cunningham is Board certified in Neurological Surgery.

Dr. Cunningham is presently the Medical Director of the Memphis Regional Gamma Knife Center and is Associate Professor in Neurological Surgery at the University of Tennessee at Memphis. Dr. Cunningham is also President of the Tennessee Board of Medical Examiners.

Dr. Cunningham is married to Sara and they have four children, Mark, Bruce, Dale and Sheri.

Professional Societies:

- American Association of Neurological Surgeons
- Congress of Neurological Surgeons
- American Society for Stereotactic Functional Neurosurgery.

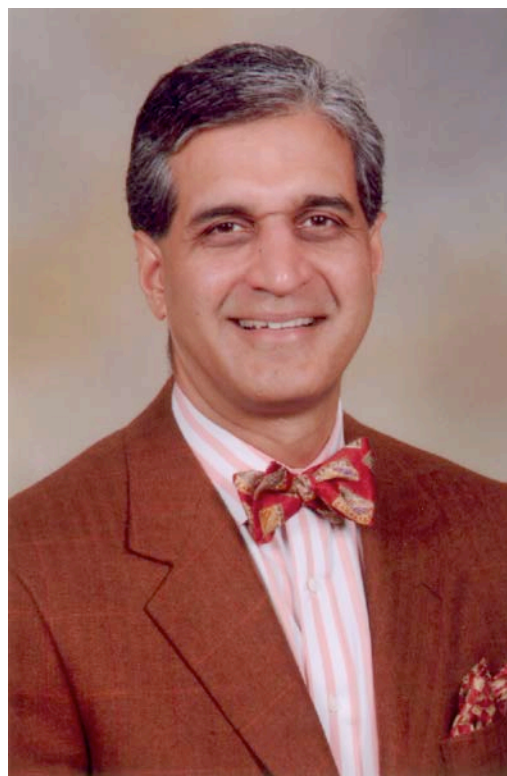
Outside Activities:

- Trapshooting
- Golf
- Antique collection

Areas of Interest:

- Stereotactic Radiosurgery
- Neurosurgery
- Gamma Knife Radiosurgery

FEATURED TNS 2014 SPEAKER -



Dr. Anil Nanda

Dr. Anil Nanda is the Professor and Chairman of the Department of Neurosurgery at LSU Health Sciences Center at Shreveport. He earned his medical degree from JIPMER Madras University in India in 1982. Dr. Nanda completed his neurosurgery residency at the Hahnemann University School of Medicine in Philadelphia followed by fellowship training in microneurosurgery and cranial base surgery at the University of Pittsburgh in 1990. In the spring of 2012, Dr. Nanda received his Master of Public Health degree from the Harvard School of Public Health. As part of his curriculum, Dr. Nanda helped pass the Louisiana Youth Concussion Law, requiring all schools, clubs, and other organizations that sponsor youth athletics to provide athletes and their parents with information about concussions and the potential long-term effects of playing after a head injury.

Committed to the expansion of higher education, Dr. Nanda has been the invited guest lecturer and visiting professor at over 130 national and international conferences and institutions. He has also published over 300 peer-reviewed journal articles, as well as two books including the recently published “Principles of Posterior Fossa Surgery. He has received recognition as an Outstanding Leader of 2005 by *The Times* in Shreveport, induction into the Junior Achievement of North Louisiana 2011 Business Hall of Fame for leadership, determination, ethics, and giving back to the community, and inclusion among the Best Doctors in America consecutively from 1996 to 2014. Dr. Nanda has served as President of the North American Skull Base Society (2005-2006), Louisiana State Neurosurgical Society (2005-2007), Southern Neurosurgical Society (2006-2007), and Society of University Neurosurgeons (2010-2011). In 2013 he was elected to serve on the American Board of Neurological Surgery (ABNS).

Featured First Speaker TNS 2014



Senator Mark Green, MD

Dr. Mark Green, Tennessee State Senator for District 22, serves as the Vice-Chair of the Senate Commerce and Insurance Committee as well as a member of the Judiciary and State and Local Government Committees. He is also the Chaplain of the Senate GOP Caucus where he authors a weekly devotion. In his first session in the Tennessee General Assembly “Doc Green” passed legislation to create jobs, assist veterans, and fight horrific crimes like sexual assault and assault on law enforcement. He initiated a Facebook page that allows out-of-work Tennesseans to post their resumes for free, and businesses to post jobs for free. Mark was selected as the Tennessee Journal’s Rookie of the year in 2013, appointed co-chair of Physician Legislators from 16 states, and was recognized as one of GOPAC’s top 21 Emerging Leaders.

In his civilian life, Dr. Green is the president and CEO of Align MD (www.alignmd.com), an emergency department staffing company based in Clarksville, TN, which provides leadership, management and staffing to emergency departments in five southeastern states. Mark also founded Align MD Foundation, which provides healthcare to underserved populations throughout the world.

Mark came to Tennessee as an army special operation flight surgeon assigned to the 160th Special Ops Aviation Regiment. There he planned and flew on some of the war on terror’s most covert operations. His most memorable mission was the capture of Saddam Hussein. Dr. Green interviewed Saddam for six hours on the night of his capture and wrote a book detailing the interview and his service with our military’s “Jedi Nights,” as he calls them. During this time Mark was selected as the Army Aviation Association Flight Surgeon of the year.

Dr. Green’s military career began as an infantry officer. From 1987 – 1990 he served as a rifle platoon leader, scout platoon leader and battalion personnel officer in the 194th Separate Armor Brigade, and from 1990 – 1992, as a battalion supply officer and an airborne rifle company commander in the famed 82nd Airborne Division.

In 1986, then Second Lieutenant Green graduated West Point with a degree in economics. In addition to his degree from West Point, Mark has a Masters Certificate from the University of Southern California in Information Systems, and his medical degree from Wright State University in Dayton, Ohio.

His military awards include the Bronze Star, The Air Medal, The Air Medal with “V” device for valor under heavy enemy fire, and numerous other medals for service. He also was awarded the Combat Medical Badge, the US Army Ranger Tab, and The Expert Infantryman’s Badge, among many others.

In 1989, Dr. Green met and married the love of his life Camilla Joy Guenther. Camie and Mark have two lovely children, Alexa age 21, a junior at Austin Peay University, and Mitchell age 18, a freshman, and Army ROTC Cadet at Furman University.

Accreditation

Accreditation Statement

This activity has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership of the AANS and the Tennessee Neurosurgical Society. The AANS is accredited by the ACCME to provide continuing medical education for physicians.

Designation Statement

The AANS designates this live activity for a maximum of 9.5 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Scientific Program Director

Michael Fromke, M.D., TNS President 2013-14

Joint Providership Disclaimer

The material presented at the Tennessee Neurosurgical Society 2014 Meeting has been made available by the Tennessee Neurosurgical Society and the AANS for educational purposes only. The material is not intended to represent the only, nor necessarily the best, method or procedure appropriate for the medical situations discussed, but rather it is intended to present an approach, view, statement, or opinion of the faculty, which may be helpful to others who face similar situations.

Neither the content (whether written or oral) of any course, seminar or other presentation in the program, nor the use of a specific product in conjunction therewith, nor the exhibition of any materials by any parties coincident with the program, should be construed as indicating endorsement or approval of the views presented, the products used, or the materials exhibited by the Tennessee Neurosurgical Society and jointly provided by the AANS, or its Committees, Commissions, or Affiliates.

Neither the AANS nor the Tennessee Neurosurgical Society makes any statements, representations or warranties (whether written or oral) regarding the Food and Drug Administration (FDA) status of any product used or referred to in conjunction with any course, seminar or other presentation being made available as part of Tennessee Neurosurgical Society 2014 Meeting. Faculty members shall have sole responsibility to inform attendees of the FDA status of each product that is used in conjunction with any course, seminar or presentation and whether such use of the product is in compliance with FDA regulations.

Disclosure Information

The AANS and the Tennessee Neurosurgical Society control the content and production of this CME activity and attempt to ensure the presentation of balanced, objective information. In accordance with the Standards for Commercial Support established by the Accreditation Council for Continuing Medical Education (ACCME), faculty, abstract reviewers, paper presenters/authors, planning committee members, staff, and any others involved in planning the educational content and the significant others of those mentioned must disclose any relationship they or their co-authors have with commercial interests which may be related to their content. The ACCME defines "relevant financial relationships" as financial relationships in any amount occurring within the past 12 months that create a conflict of interest.

Those who have disclosed a relationship with commercial interests are listed below:*

<u>Name</u>	<u>Disclosure</u>	<u>Type of Relationship</u>
<i>Daniel Kueter, MD</i>	<i>Triangle Spine, LLC; Medtronic; Globus Medical; Johnson & Johnson</i>	<i>Stock or Shareholder</i>
<i>Adam Arthur, MD</i>	<i>Stryker; Covidien; Terumo</i>	<i>Consultant Fee</i>
<i>Gregory Lanford</i>	<i>Safe Orthopaedics</i>	<i>Consultant Fee</i>
<i>Clarence B. Watridge, MD</i>	<i>Medtronic; Spinal Motion</i>	<i>Industry Grant Support</i>

**Relationship refers to receipt of royalties, consultantship, funding by research grant, receiving honoraria for educational services elsewhere, or any other relationship to a commercial interest that provides sufficient reason for disclosure.*

Those who have reported they do not have any relationships with commercial interests:

<i>Frederick Boop, MD</i>	<i>Seyed Emadian, MD</i>	<i>James Killifer, MD</i>
<i>Jason Agran, MD</i>	<i>Lola Chambless, MD</i>	<i>Matthew Wood, MD</i>
<i>Scott Parker, MD</i>	<i>L. Madison Michael, MD</i>	<i>Robin Smith, RN</i>
<i>John Wellons, MD</i>	<i>Mike DeCuyper, MD</i>	<i>Nick Khan, MD</i>
<i>Peter Morone, MD</i>	<i>Paul Klimo MD</i>	<i>Adam Befeler, MD</i>
<i>Brandon Baughman, MD</i>	<i>David Voce, MD</i>	<i>Prayash Patel, MD</i>
<i>Mark Green, MD</i>	<i>Michael Fromke, MD</i>	<i>Morgan Jones, PharmD, BCPS</i>
<i>Anil Nanda, MD</i>	<i>David L. Cunningham, MD</i>	<i>Mistina Pannell</i>
<i>Lily Talan</i>		

Educational content planner of this meeting – Dr. Michael Fromke

TENNESSEE NEUROSURGICAL SOCIETY ANNUAL MEETING
AUGUST 8-10, 2014

The Tennessee Neurosurgical Society wishes to thank the following companies for their generous contributions to this annual meeting.

Special Co-Sponsor – Friday’s Reception
Methodist University Hospital

Exhibitor Company Name

The Armamentarium, Inc.
Arbor-Pharmaceuticals LLC
Aspen
Biomet Microfixation
Boss Instruments
BrainLab
Codman J&J - Depuy
DepuySynthes CMF
Discgenics
Globus Medical
Integra
KLS Martin
Medtronic Advanced Energy Div.
Medtronic Spinal Division
Medtronic Surgical
Ornim Medical Inc.
Pacira Pharmaceuticals,INC
SI Bone
Symmetry Surgical
SurgicalOne Inc.
Unique Surgical, Inc.

Saturday - August 9, 2014

Scientific Session Block I - Moderator: Dr. Michael Fromke

Saturday - August 9, 2014
8:05 - 8:25

Senator Mark Green, MD
District 22, TN

“Politics and the healthcare field in today’s environment”

Saturday - August 9, 2014

8:25 - 8:45

Dr. Daniel Kueter

“Update on Artificial Cervical Disc”

Saturday - August 9, 2014

8:45 - 9:05

Dr. Lola Chambless

**“Making minimally invasive maximally successful – Incorporating
endoscopy in your neurosurgical practice”**

Saturday - August 9, 2014
9:05 - 9:25

Dr. James Killifer

“Trigeminal neuralgia treatment and outcomes”

Saturday - August 9, 2014

9:25 - 9:45

Dr. Adam Arthur

“WEB-a new option for wide necked bifurcation aneurysms”

Saturday - August 9, 2014
9:45 - 10:05

Dr. Michael Madison

“Closure of posterior fossa dura: Simpler is better”

Saturday - August 9, 2014

10:05 – 10:25

Morgan Jones, PharmD

“Fact or Fiction? A review of treatment strategies in subarachnoid hemorrhage”

Saturday - August 9, 2014
10:50 – 12:50

Scientific Session Block II - Moderator – Dr. Lola Chambless

Saturday - August 9, 2014

10:50 - 11:10

Dr. John Wellons

“Results of the SOPHH Trial comparing surgical treatment of HCP due to IVH of prematurity”

Saturday - August 9, 2014
11:10 – 11:30

Dr. Brandon Baughman

“Management of neurocognitive and behavioral sequelae in CNS cancer.”

Saturday - August 9, 2014

11:30 - 11:50

Dr. Paul Klimo

*“Five-year Institutional Bibliometrics for 103 U.S. Neurosurgical
Residency Programs”*

Saturday - August 9, 2014

11:50 – 12:10

Dr. Gregory Lanford

“Bundled and Emergent Payment Strategies”

Saturday - August 9, 2014

12:10 - 12:30

Robin Smith, RN, BSN

“Practicing in TN: Better for Patients and Provider”

Saturday - August 9, 2014

12:30 - 12:50

Dr. Seyed Emadian

“Historical Perspectives on Protective Helmets in Cycling”

Saturday - August 9, 2014

1:00 - 1:05

Introduction of Key Note Speaker- Dr. Michael Fromke

1:05 - 1:35

Keynote speaker for Clarence B. Watridge Lecture

Dr. David Cunningham

“The Road to Radiosurgery in Tennessee?”

Sunday - August 10, 2014

8:00 – 10:00

Scientific Session Block III – Moderator – Dr. Daniel Kueter

Sunday - August 10, 2014

8:00 – 8:20

Dr. Clarence Watridge

“Vigilance in the Medical Marketplace”

Sunday - August 10, 2014

8:20 - 8:40

Dr. Frederick Boop

“The status of graduate medical education funding in the U.S.”

Sunday - August 10, 2014

8:40 – 9:20

Dr. Matthew Wood

“Worker’s Comp - Part II”

Sunday - August 10, 2014

9:20 – 9:25

Introduction Featured TNS 2014 Special Speaker

– Dr. Frederick Boop

9:25-10:100

TNS 2014 Special Speaker

Dr. Anil Nanda

“ For Whom The Bells Toll: Neurosurgery and Public Health”

Sunday - August 10, 2014

10:30 – 1:30

Scientific Session Block IV – Moderator - Dr. Matthew Wood

The Resident's Corner

Sunday - August 10, 2014

10:30 – 10:50

Dr. Jason Agran

"Restoration of standing and walking using intraspinal motor stimulation in paralyzed patients."

Sunday – August 10, 2014

10:50 – 11:10

Dr. Nick Khan

**“Fibrinolysis for Intraventricular
Hemorrhage: An Updated Meta-Analysis and
Systematic Review of the Literature”**

Sunday – August 10, 2014

11:10 - 11:30

Dr. Peter Morone

**“Outcomes of carotid artery angioplasty
and stenting in patients after treatment of acute
ischemic stroke”**

Sunday – August 10, 2014

11:30 - 11:50

Dr. Adam Befeler

**“Outpatient Follow-Up Imaging in
Traumatic Brain Injury: Beneficial or Not?”**

Sunday – August 10, 2014
11:50-12:10

Dr. David Voce

**“An NF- κ B Dependent Gene Set
Identifies the Long Non-Coding RNA, MALAT1, as a
Novel Target for Use in Malignant Glioma”**

Sunday – August 10, 2014

12:10-12:30

Dr. Mike DeCuyper

**“Surgery and Gemcitabine
Chemotherapy Improve Survival in a Preclinical Mouse
Model of Choroid Plexus Carcinoma”**

Sunday – August 10, 2014

12:30 - 12:50

Dr. Scott Parker

**“Effect of pre-operative narcotic use on
outcomes and complications of patients undergoing
elective spine surgery”**

Sunday – August 10, 2014

12:50 – 1:10

Dr. Prayash Patel

“The Expanded Transforaminal
Approach to the Third Ventricle”

THE FOLLOWING ARE TEAR OUT SHEETS TO BE
SUBMITTED TO AANS/TNS

CME SHEETS FOR CREDIT

AND

EVALUATION FORMS

PLEASE FILL OUT AND THEN TEAR OUT OF BOOKLET AND
GIVE TO THE MEETING CORRDIRATOR - YOUR CME
CREDITS WILL BE MAILED/EMAILED TO YOU.

THANK YOU

TENNESSEE NEUROSURGICAL SOCIETY 2014 ANNUAL MEETING
Jointly Provided by the American Association of Neurological Surgeons (AANS)
August 8-10, 2014
Westin Beale Street – Memphis, TN

PARTICIPATION ATTENDANCE VERIFICATION FORM

If all sessions are attended, a maximum of 9.5 *AMA PRA Category 1 Credit(s)*TM will be awarded.

DATE/TIME	PRESENTATION	CREDITS	SUB-SPECIALTY	CREDITS CLAIMED
Saturday, August 9				
8:05 – 10:25 am	Scientific Session Block 1	2.25	General	
10:50 am – 12:50 pm	Scientific Session Block 2	2.0	General	
1:00 – 1:35 pm	Keynote Speaker	0.5	General	
Sunday August 10				
8:00 – 10:00 am	Scientific Session Block 3	2.0	General	
10:30 am – 1:10 pm	Scientific Session Block 4	2.75	General	
TOTAL CME		9.5		

I hereby certify that the above information is correct and that I attended the meeting identified and earned the credits

Name (Please Print Clearly)

Mailing Address for CME Certificate

Signature **Date**

Email address

**PLEASE RETURN THIS FORM TO THE ADMINISTRATORS
 DESK BEFORE YOU LEAVE THE MEETING.**
 This form must be completed and returned to AANS within 30 days of
 the CME activity in order to earn CME credit.
 Thank You

Tennessee Neurosurgical Society 2014 Meeting

Westin Beale Street, Memphis TN

Jointly Provided by AANS

August 8-10, 2014

Participant Evaluation Tabulation

Rating Scale (overall score)

A=Excellent

B=Very Good

C=Good

D=Fair

E=Poor

LEARNING OBJECTIVES

How well were the following objectives met?

Upon completion of this educational activity participants should be able to:

1. Discuss the implementation of healthcare reform via the Affordable Care Act, future implementation of ICD-10 and emerging payment and reimbursement strategies seen in the Tennessee market.

A B C D E

2. Discuss current treatment paradigms for central nervous system neoplasms including surgical management vs. radio surgery applications.

A B C D E

3. Describe the current state of medical/socioeconomic issues facing neurosurgeons in Tennessee.

A B C D E

4. Discuss the best current treatment for acute subarachnoid hemorrhage.

A B C D E

5. Articulate the role of protective helmets in various athletic activities.

A B C D E

6. Discuss and implement recent advances regarding the current standard of care for spinal surgery.

A B C D E

Comments: _____

PROGRAM

1. Topics addressed completely

A B C D E

2. Content relevant to my practice

A B C D E

3. Opportunities for questions/discussion

A B C D E

4. What did you like most about this meeting? _____

5. What changes do you intend to make in your practice as a result of the meeting?

6. How could this meeting be improved? _____

7. Did you perceive any commercial bias during this program? ____Yes ____No
If yes, please explain what was perceived as promotional and not educational, (Please include
The presentation title and presenter). _____

8. What topics for future programs or information would be of greatest interest to you? _____

FACULTY

Faculty communicated clearly and effectively within the allotted time:

Content and performance grade A B C D E

Comments regarding faculty: _____

**Presentations:
Saturday August 9, 2014**

1st Guest Speaker

8:05-8:25: **TN Senator Mark Green, MD:** "Politics and the healthcare field in today's environment"

A B C D E

8:25-8:45: **Daniel Kueter:** "Update on Artificial Cervical Disc Surgery"

A B C D E

8:45-9:05: **Lola Chambless:** "Making minimally invasive maximally successful - Incorporating endoscopy in your neurosurgical practice"

A B C D E

9:05-9:25: **James Killifer:** "Trigeminal neuralgia treatment and outcomes"

A B C D E

9:25-9:45: **Adam Arthur:** "WEB-a new option for wide necked bifurcation aneurysms"

A B C D E

9:45-10:05: **Madison Michael:** "Closure of Posterior Fossa Dura: Simpler is Better"

A B C D E

10:05-10:25: **Morgan Jones:** "Fact or Fiction? A Review of Treatment Strategies in Subarachnoid Hemorrhage"

A B C D E

10:50-11:10: **John C. Wellons:** "Pediatric Hydrocephalus"

A B C D E

11:10-11:30: **Brandon Baughman:** "Management of neurocognitive and behavioral sequelae in CNS cancer"

A B C D E

11:30-11:50: **Paul Klimo:** "Five-year Institutional Bibliometrics for 103 U.S. Neurosurgical Residency Programs"

A B C D E

11:50-12:10: **Greg Lanford:** "Bundled and Emergent Payment Strategies"

A B C D E

12:10-12:30: **Robin Smith:** "Practicing in TN: Better for Patients and Providers"

A B C D E

12:30-12:50: **Seyed Emadian:** "Historical Perspectives on Protective Helmets in Cycling"

A B C D E

Keynote Speaker

1:00-1:35: Dr. David Cunningham: "The Road to Radiosurgery in Tennessee"

A B C D E

Sunday, August 10, 2014

8:00-8:20: **Clarence Watridge:** "Vigilance in the Medical Marketplace"

A B C D E

8:20-8:40: **Fredrick Boop:** "The status of graduate medical education funding in the US"

A B C D E

8:40-9:20: **Matthew Wood:** "Update of Workers Compensation and Tennessee Work Comp Law"

A B C D E

Special Speaker -TNS 2014 Meeting

9:25-10:00: **Anil Nanda, MD** "For Whom the Bells Toll: Neurosurgery and Public Health"

A B C D E

Residents Corner:

10:30-10:50: **Jason Agran:** "Restoration of standing and walking using intraspinal motor stimulation in paralyzed patients."

A B C D E

10:50-11:10: **Nick Khan:** "Fibrinolysis for Intraventricular Hemorrhage: An Updated Meta-Analysis and Systematic Review of the Literature"

A B C D E

11:10-11:30: **Peter Morone:** "Outcomes of carotid artery angioplasty and stenting in patients after treatment of acute ischemic stroke"

A B C D E

11:30-11:50: **Adam Befeler:** "Outpatient Follow-Up Imaging in Traumatic Brain Injury: Beneficial or Not?"

A B C D E

11:50-12:10: **David Voce:** "An NF- κ B Dependent Gene Set Identifies the Long Non-Coding RNA, MALAT1, as a Novel Target for Use in Malignant Glioma"

A B C D E

12:10-12:30: **Michael DeCuypere:** "Surgery and Gemcitabine Chemotherapy Improve Survival in a Preclinical Mouse Model of Choroid Plexus Carcinoma"

A B C D E

12:30-12:50: **Scott Parker:** "Effect of pre-operative narcotic use on outcomes and complications of patients undergoing elective spine surgery"

A B C D E

12:50-1:10: **Prayash Patel:** "The Expanded Transforaminal Approach to the Third Ventricle"

A B C D E

Other Comments: