

***Tennessee***  
***Neurosurgical***  
***Society***  
***Annual Meeting***

August 9-11, 2013

Union Station Hotel, Nashville Downtown



American  
Association of  
Neurological  
Surgeons

---

Jointly Sponsored by 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:

- Implement best current treatment of skull based tumors
- Have a working algorithm for management of spine surgery
- Articulate and implement current standard of care in spinal surgery with regards to diagnosis, initiation of treatment, and surgical techniques; examining concussive injuries
- Discuss evolving medical/business/legislative issues in neurosurgery
- Discuss current best treatment of intracranial neoplasms

#### **Friday, August 9<sup>th</sup>, 2013**

4:30-6:30pm Exhibitor Setup

**6:30-8:30pm Opening Reception at the Union Station Hotel – Majors Room**

#### **Saturday, August 10, 2013**

7:00-8:00 Registration, Continental Breakfast, Exhibits – McKinley Room

**8:00-8:05 Welcome, Announcements, Introduction- Majors Room**

L. Madison Michael, President, TNS 2012-2013

#### **8:05-10:25 Scientific Sessions Block 1 –Moderator - Jeffery Sorenson**

8:05-8:25: Kenan Arnautovic: Association of Increased Body Mass Index with Adult Chiari I Malformation and Syrinx Formation

8:25-8:45: Joe Cheng: Utilization of Spine Surgery

8:45-9:05: Lola Chambless: Endoscopic Approaches to the Skull Base or Keyhole Concept in Neurosurgical Oncology

9:05-9:25: Lucas Eljovich: Novel Non-invasive Imaging in Moya Moya Disease

9:25-9:45: Kevin Foley: Initial In Vivo Efficacy of a Novel, Injectable Cellular Therapy for Degenerative Disc Disease

9:45-10:05: Daniel Kueter: Endoscopic Carpal Tunnel Release; Pearls and Pitfalls

10:05-10:25: J. Mocco: New Developments in Cerebrovascular Neurosurgery

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

#### **10:50-12:30 Scientific Sessions Block 2 – Moderator – Lola Chambless**

10:50-11:10: Robert Mericle: Intracranial Aneurysms: Morphological Risk Factors Predicting Rupture

11:10-11:30: Karl Sillay: Deep Brain Stimulation (DBS)

11:30-11:50: John Wellons: The Hydrocephalus Clinical Research Network: Improving Outcomes in Kids Through Collaborative Research

11:50-12:10: Jon Robertson: Current Consensus for Treatment of Acoustic Tumors

12:10-12:30: Matt Wood: History of Workers Compensation and Tennessee Work Comp Law

**12:30-1:00 Buffet Lunch**

**1:00-1:05 Introduction of Keynote Speaker**

#### ***Clarence B. Watridge Lecture***

***Keynote speaker***

***1:05-1:45 Clarence B. Watridge: What is this business of neurosurgery anyway?***

***1:45 – Short Business Meeting- Neurosurgeons only***

**Sunday, August 11, 2013**

7:00-8:00: Breakfast with Exhibitors/Registration

**8:00-10:00: Scientific Sessions Block 3 - Moderator – Paul Klimo**

8:00-8:20: Christopher Jenkins: Essentials to Hospital-Physician Alignment

8:20-8:40: Tim Strait: Legal Matters Concerning IME/WC Depositions and Personal Injury Causation Issues

8:40-9:00: Paul Klimo: Job satisfaction, stress and burnout in neurosurgery: Part II

9:00-9:40: Brandon Baughman/Chris Young: The Realm of Sports Concussion (**dual speakers**)

9:40-10:00: Wayne Hamm: Management of coagulopathic patients presenting for urgent/emergent neurosurgery

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

**10:30-1:30: Scientific Sessions Block 4 – Moderator – Joseph Cheng**

*“The Resident’s Corner”*

10:30-10:50: Scott Zuckerman - Sports Related Concussion: How do Age and Gender Affect Outcomes

10:50-11:10: Tyler Auschwitz - St. Jude Experience of Malignant Brainstem Tumors Excluding DFIG

11:10-11:30: Scott Parker - Antibiotic impregnated shunt catheters: Evidence on their clinical and cost effectiveness

11:30-11:50: Jonathan Reding – Study of acoustic tumor neurosurgical cases 2010-2013

11:50-12:10: Michael Dewan - Comparative effectiveness of sacrificing versus sparing the C2 nerve root during C1-2 fusion

12:10-12:30: Michael Decuyperre - Post-Operative Fractionated Radiotherapy Improves Survival in a Mouse Model of Human Anaplastic Ependymoma

12:30-12:50: Cyrus Wong - S2 alar iliac screws for pelvic fixation: Biomechanics and long term outcomes study

12:50-1:10: Nick Khan - Bibliometrics, Informatics, and Neurosurgery: The intersection of surgery, information, and technology

1:10-1:30: Heather Kistka - Cost-effective imaging follow-up of non-functioning pituitary adenomas

**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.**

*FEATURED KEYNOTE SPEAKER - TNS 2013*



*Dr. Clarence B. Watridge*

**Dr. Clarence B. Watridge, Chairman of Semmes-Murphey Clinic, was born in Humboldt, TN. He grew up on a farm and graduated from Humboldt High School having lettered in four sports for three years. He obtained a Bachelor of Sciences at Baylor University, Waco, TX. Following college, he attended Medical School at the University of Tennessee Center for the Health Sciences in Memphis graduating December 1975. He was elected to Alpha Omega Alpha, an honorary society and was awarded the Most Promising Physician Award by his classmates. After internship in Straight Surgery in 1976-1977, his neurosurgery residency was with the University of Tennessee Department of Neurosurgery in Memphis. During his residency training he participated in a Neurosurgical exchange program and served as Senior Registrar in the Frenchay Hospital Department of Neurosurgery in Bristol, England. He completed his neurosurgery residency in June, 1981. Having attended medical school on an Armed Forces Health Professions Scholarship, he served as an Air Force neurosurgeon at Keesler Air Force Base 1981-84 attaining the rank of Major. He returned to Memphis in 1985 to Join Semmes-Murphey Clinic and the academic faculty of the University of Tennessee Department of Neurosurgery. His academic appointment is Professor. He was elected Chairman of Semmes-Murphey Clinic in 2002 and continues in that capacity.**

**He has been married to Christy Watridge since January 1972. Two children, Chad and Caia, were born during residency years. Son Chad and wife Brooke, Professional Equestrians, have two of his three grandchildren; a granddaughter Caia Ann and grandson Joe Boyett Watridge; they live in FL. Daughter Caia, a Neurosurgical Physician Assistant, is married to Chris McInerney and they have a son, Jack; they live in Washington, DC.**

**Dr. Watridge is active in several neurosurgical and other organized medical societies, having held positions with Tennessee Neurosurgical Society, AANS, CNS, CSNS, American College of Surgeons, Tennessee Medical Association and Memphis Medical Society. His clinical interests have focused on cerebrovascular disorders, brain tumors, trigeminal neuralgia and general spinal neurosurgery.**

## *Accreditation*

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

The AANS designates this live activity for a maximum of **9.75 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

## *Scientific Program Director*

L. Madison Michael, M.D., TNS President 2013

## *Joint Sponsorship Disclaimer*

The material presented at the Tennessee Neurosurgical Society 2013 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 sponsored 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 2011 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.

**FACULTY DISCLOSURE POLICY**  
***AANS and Tennessee Neurosurgical Society***  
**AANS Disclosure of Financial Relationships**

***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><i>Name</i></u>	<u><i>Disclosure</i></u>	<u><i>Type of Relationship</i></u>
<i>Adam Arthur, MD</i>	<i>Stryker, Teruma, Covidien</i>	<i>Consultant</i>
<i>Clarence Watridge, MD</i>	<i>CREST, NIH, NINDS</i> <i>Medtronic, Spinal motion</i> <i>MERI, Surgeons PAC</i>	<i>University Grants/ Research Support</i> <i>Industry Grant Support</i> <i>Fiduciary Position</i>
<i>Kevin Foley, MD</i>	<i>Medtronic</i> <i>Discgenics, BioD, Medtronic,</i> <i>Nuvasive, Truevision</i> <i>Arthrocare, Medtronic</i> <i>Discgenics, BioD, Truevision,</i> <i>MERI</i>	<i>Consultant</i> <i>Stock Holder</i>  <i>Royalties</i> <i>Fiduciary Position</i>
<i>J. Mocco, MD</i>	<i>Blockade Medical</i> <i>NFocus, Lazarus Effect,</i> <i>Reverse Medical Pulsar</i> <i>Therapy-penumbronc,</i> <i>Feat-Styker</i>	<i>Stock Holder</i> <i>Consultant</i>  <i>Other</i> <i>Financial/Material</i> <i>Support</i>
<i>Daniel Kueter, MD</i>	<i>Frontier Devices</i> <i>Triangle Spine, LLC</i>	<i>Consultant</i> <i>Stock Holder</i>
<i>Lucas Elizovich, MD</i>	<i>Codman-Neuro</i>	<i>University Grants/ Research Support</i>

<i>Karl Sillay, MD</i>	<i>University of WI, Kinetics Foundation</i>	<i>University Grants/ Research Support</i>
	<i>Restorative Neurosciences Foundation</i>	<i>Fudiciary Position</i>
	<i>Insert Inc. Navigated Technologies</i>	<i>Stock/Shareholder</i>
	<i>MRI Interventions, Health Data Net</i>	<i>Stock/Shareholder</i>

*\*Relationship refers to receipt of royalties, consultantsip, 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>Paul Klimo Jr. , MD</i>	<i>Jon Robertson, MD</i>	<i>Christopher Young, PhD</i>
<i>Scott Parker, MD</i>	<i>Robert Mericle, MD</i>	<i>*L. Michael Madison, MD</i>
<i>Jonathan Reding, MD</i>	<i>Wayne Hamm, CRNA</i>	<i>Joseph Cheng, MD</i>
<i>Jeff Sorenson, MD</i>	<i>Michael Dewan, MD</i>	<i>Kenan Arnautovic, MD</i>
<i>Tyler Auschwitz, MD</i>	<i>Tim Strait, MD</i>	<i>Heather Kistka, MD</i>
<i>Lola Chambless, MD</i>	<i>Scott Zuckerman, MD</i>	<i>Brandon Baughman, PhD</i>
<i>John Wellons, MD</i>	<i>Cyrus Wong, MD</i>	<i>Christopher Jenkins, MBA</i>
<i>Mike DeCuypere, MD</i>	<i>Nick Khan, MD</i>	<i>Matthew Wood, MD</i>

*\*Educational content planner of this meeting*

TENNESSEE NEUROSURGICAL SOCIETY ANNUAL MEETING  
AUGUST 9-11, 2013

*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*

*Armamentarium Inc*

*Aspen*

*Biomet Microfixation-W Lorenz*

*BrainLab*

*Choice Spine and Medical*

*Codman J&J-Depuy Orthopaedics*

*Depuy Spine Sales*

*Depuy-Synthes CMF*

*Discogenics Inc*

*Integra LifeSciences Corporation*

*Medtronic Advanced Energy*

*Medtronic Surgical*

*Nuvasive/Universal Medical*

*Orthokinematics Inc*

*Spinology, Inc*

*SI Bone Inc*

*Spine Wave, Inc*

*Surgical Acuity*

*SurgicalOne Inc*

*Unique Surgical Inc*

*Saturday - August 10, 2013*



8:05 – 10:25

*Scientific Session Block I - Moderator: Dr. Jeffrey Sorenson*

*Saturday - August 10, 2013*

*8:05 - 8:25*

**Dr. Kenan Arnautovic**

**“Association of increased body mass index with adult Chiari I  
Malformation and syrinx formation”**

*Saturday - August 10, 2013*

*8:25 - 8:45*

**Dr. Joseph Cheng**

**“Utilization of spine surgery”**

*Saturday - August 10, 2013*

*8:45 - 9:05*

**Dr. Lola Chambless**

**“Endoscopic approaches to the skull base or keyhole concept in  
neurosurgical oncology”**

*Saturday - August 10, 2013*

*9:05 - 9:25*

**Dr. Lucas Eljovich**

**“Novel non-invasive imaging in Moya-Moya Disease”**

*Saturday - August 10, 2013*

*9:25 - 9:45*

**Dr. Kevin Foley**

**“Initial in-vivo efficacy of a novel, injectable cellular therapy for degenerative disc disease”**

*Saturday - August 10, 2013*

*9:45 - 10:05*

*Dr. Daniel Kueter*

*“Endoscopic carpal tunnel release: pearls and pitfalls”*

*Saturday - August 10, 2013*

*10:05 – 10:25*

*Dr. J. Mocco*

*“New developments in cerebrovascular neurosurgery”*



*Saturday - August 10, 2013*  
*10:50 – 12:30*

*Scientific Session Block II - Moderator – Dr. Lola Chambless*

*Saturday - August 10, 2013*

10:50 - 11:10

**Dr. Robert Mericle**

**“Intracranial aneurysms: Morphological risk factors predicting rupture”**

*Saturday - August 10, 2013*

*11:10 – 11:30*

*Dr. Karl Sillay*

*“Deep brain stimulation (DBS)”*

*Saturday - August 10, 2013*

*11:30 - 11:50*

*Dr. John Wellons*

*“The Hydrocephalus Clinical Research Network:  
Improving outcomes in kids through collaborative research”*

*Saturday - August 10, 2013*

*11:50 – 12:10*

*Dr. Jon Robertson*

*“Current consensus for treatment of acoustic tumors”*

*Saturday - August 10, 2013*

*12:10 - 12:30*

*Dr. Matt Wood*

*“History of Workers Compensation and Tennessee Work Comp Law”*

*Saturday - August 10, 2013*

*1:00 - 1:05*

*Introduction of Key Note Speaker- Dr. L. Madison Michael*

*1:05 - 1:45*

*Keynote speaker*

*Dr. Clarence B. Watridge*

*“What is this business of neurosurgery anyway?”*

*Sunday - August 11, 2013*

*8:00 – 10:00*

*Scientific Session Block III – Moderator – Dr. Paul Klimo*



*Sunday - August 11, 2013*

*8:00 – 8:20*

*Christopher Jenkins*

*“Essentials to Hospital-Physician Alignment”*

*Sunday - August 11, 2013*

*8:20 - 8:40*

*Dr. Timothy Strait*

*“Legal matters concerning IME/WC depositions and personal injury  
causation issues”*

*Sunday - August 11, 2013*

*8:40 – 9:00*

*Dr. Paul Klimo*

*“Job satisfaction, stress and burnout in neurosurgery: Part II”*

*Sunday - August 11, 2013*

*9:00 - 9:40*

*Dr. Brandon Baughman and Dr. Chris Young*

*"The realm of sports concussion"*

*Sunday - August 11, 2013*

*9:40 – 10:00*

*Wayne Hamm*

*“Management of coagulopathic patients presenting for urgent/emergent  
neurosurgery”*

*Sunday - August 11, 2013*

*10:30 – 1:30*

*Scientific Session Block IV – Moderator - Dr. Joseph Cheng*

*The Resident's Corner*

*Sunday - August 11, 2013*

*10:30 – 10:50*

*Dr. Scott Zuckerman*

*“Sports Related Concussion: How do Age and Gender Affect Outcomes”*

*Sunday – August 11, 2013*

*10:50 – 11:10*

*Dr. Tyler A. Auschwitz*

*“St. Jude Experience of Malignant Brainstem Tumors Excluding DFIG”*



*Sunday – August 11, 2013*

*11:10 - 11:30*

*Dr. Scott Parker*

*“Antibiotic impregnated shunt catheters: Evidence on their clinical and cost effectiveness”*

*Sunday – August 11, 2013*

*11:30 - 11:50*

*Dr. Jonathan Reding*

“Study of acoustic tumor neurosurgical cases 2010-2013”

*Sunday – August 11, 2013*  
*11:50-12:10*

*Dr. Michael Dewan*

*“Comparative effectiveness of sacrificing versus sparing the C2 nerve root during C1-2 fusion”*

*Sunday – August 11, 2013*

*12:10-12:30*

*Dr. Mike DeCuypere*

*“Post-Operative Fractioned Radiotherapy Improves Survival in a Mouse  
Model of Human Anaplastic Ependymoma”*

*Sunday – August 11, 2013*

*12:30 - 12:50*

*Dr. Cyrus Wong*

*“S2 Alar iliac screws for pelvic fixation: Biomechanics and long term outcomes study”*

*Sunday – August 11, 2013*

*12:50 – 1:10*

*Dr. Nick Khan*

*“Bibliometrics, Informatics, and Neurosurgery: The intersection of surgery, information, and technology”*

*Sunday – August 11, 2013*

*1:10 – 1:30*

*Dr. Heather Kistka*

*“Cost-effective imaging follow-up of non-functioning pituitary adenomas”*

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 - SO YOUR CME  
CREDITS WILL BE MAILED/EMAILED TO YOU.

THANK YOU



**TENNESSEE NEUROSURGICAL SOCIETY 2013 ANNUAL MEETING**  
*Jointly Sponsored by the American Association of Neurological Surgeons (AANS)*  
**August 9-August 11, 2013**  
**Union Station Hotel – Nashville, TN**

**PARTICIPATION ATTENDANCE VERIFICATION FORM**

If all sessions are attended, a maximum of 9.75 AMA PRA Category 1 Credit(s)<sup>TM</sup> will be awarded.

TIME:	PRESENTATION	CREDITS	SUBJECT	CREDITS SPECIALTY CLAIMED
8:05 AM-10:25 AM Saturday, August 10	Scientific Session Block I	2.25	General	_____
10:50 AM-12:30 PM Saturday, August 10	Scientific Session Block II	1.75	General	_____
1:05 – 1:45 PM Saturday, August 10	Keynote Speaker	0.75	General	_____
8:00 AM-10:00 AM Sunday, August 11	Scientific Session Block III	2.0	General	_____
1030 AM-1:30 PM Sunday, August 11	Scientific Session Block IV	3.0	General	_____
<b><i>TOTAL POSSIBLE CME CREDITS</i></b>		<b><i>9.75</i></b>	<b><i>Total # you are claiming</i></b>	_____

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 2013 Meeting**  
**Union Station Hotel, Nashville TN**  
**Jointly Sponsored by AANS**  
**August 9-11, 2013**

**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. | Implement best current treatment of skull base tumors:   | A | B | C | D | E |
| 2. | Have a working algorithm for management of spine surgery:  | A | B | C | D | E |
| 3. | Articulate and implement current standard of care in spinal surgery with regards to diagnosis, initiation of treatment and surgical techniques; examining concussive injuries: | A | B | C | D | E |
| 4. | Discuss evolving medical/business/legislative issues in neurosurgery:  | A | B | C | D | E |
| 5. | Discuss current best treatment of intracranial neoplasms:  | 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 10, 2013**

8:05-8:25: Kenan Arnautovic: Association of increased Body Mass Index with Adult Chiari I Malformation and Syrxinx Formation

A            B            C            D            E

8:25-8:45: Joe Cheng: Utilization of Spine Surgery

A            B            C            D            E

8:45-9:05: Lola Chambless: Endoscopic Approaches to the Skull Base or Keyhole Concept in Neurosurgical Oncology

A            B            C            D            E

9:05-9:25: Lucas Elijevich: Novel Non-invasive Imaging in Moya Moya Disease

A            B            C            D            E

9:25-9:45: Kevin Foley: Initial In Vivo Efficacy of a Novel, Injectable Cellular Therapy for Degenerative Disc Disease

A            B            C            D            E

9:45-10:05: Daniel Kueter: Endoscopic Carpal Tunnel Release; Pearls and Pitfalls

A            B            C            D            E

10:05-10:25: J. Mocco: New Developments in Cerebrovascular Neurosurgery

A            B            C            D            E

10:50-11:10: Robert Mericle: Intracranial Aneurysms: Morphological Risk Factors Predicting Rupture

A            B            C            D            E

11:10-11:30: Karl Sillay: Deep Brain Stimulation (DBS)

A            B            C            D            E

11:30-11:50: John Wellons: The Hydrocephalus Clinical Research Network: Improving Outcomes in Kids Through Collaborative Research

A            B            C            D            E

11:50-12:10: Jon Robertson: Current Consensus for Treatment of Acoustic Tumors

A            B            C            D            E

12:10-12:30: Matt Wood: History of Workers Compensation and Tennessee Work Comp Law

A            B            C            D            E

## Saturday August 10, 2013

### Keynote Speaker

1:05-1:45 Clarence B. Watridge: *What is this business of neurosurgery anyway?*

A B C D E

## Sunday, August 11, 2013

8:00-8:20: Christopher Jenkins: Essentials to Hospital-Physician Alignment

A B C D E

8:20-8:40: Tim Strait: Legal Matters Concerning IME/WC Depositions and Personal injury Causation Issues  
Chattanooga

A B C D E

8:40-9:00: Paul Klimo: Job satisfaction, stress and burnout in neurosurgery: Part II

A B C D E

9:00-9:40: Brandon Baughman/Chris Young: The Realm of Sports Concussion (dual speakers)

A B C D E

9:40-10:00: Wayne Hamm: Management of coagulopathic patients presenting for urgent/emergent  
neurosurgery

A B C D E

### Residents Corner:

10:30-10:50: Scott Zuckerman - Sports Related Concussion: How do Age and Gender Affect Outcomes?

A B C D E

10:50-11:10: Tyler Auschwitz - St. Jude Experience of Malignant Brainstem Tumors Excluding DFIG

A B C D E

11:10-11:30: Scott Parker - Antibiotic impregnated shunt catheters: Evidence on their clinical and cost  
effectiveness

A B C D E

11:30-11:50: Jonathan Reding – Study of acoustic tumor neurosurgical cases 2010-2013

A B C D E

11:50-12:10: Michael Dewan - Comparative effectiveness of sacrificing versus sparing the C2 nerve root during  
C1-2 fusion

A B C D E

12:10-12:30: Michael Decuyper - Post-Operative Fractioned Radiotherapy Improves Survival in a Mouse  
Model of Human Anaplastic Ependymoma

A B C D E

12:30-12:50: Cyrus Wong - S2 alar iliac screws for pelvic fixation: Biomechanics and long term outcomes  
study

A B C D E

12:50-1:10: Nick Khan - Bibliometrics, Informatics, and Neurosurgery: The intersection of surgery, information, and technology

A B C D E

1:10-1:30: Heather Kistka - Cost-effective imaging follow-up of non-functioning pituitary adenomas

A B C D E

**Other comments:**

