

RICHARD LENDE
WINTER
NEUROSURGERY
CONFERENCE

FEBRUARY 2- FEBRUARY 7, 2007
CLIFF LODGE
SNOWBIRD, UTAH

33rd ANNUAL RICHARD LENDE WINTER NEUROSURGERY CONFERENCE

Richard Lende Winter Neurosurgery Conference originated during the winter of 1972-1973 when a small group of similarly motivated neurosurgeons met at the Alta Peruvian Lodge and at Snowbird, where papers and ideas were exchanged in an informal meeting. The meeting was obviously well received and plans were laid for future gatherings. The future was clouded however, by the injury of Dr. Richard Lende, then Chairman of Neurosurgery at Albany, who suffered a severe leg fracture requiring hospitalization at the University of Utah Medical Center. After a lengthy stay, he returned to Albany, where he tragically suffered cardiac arrest and expired while being anesthetized for a minor surgical wound revision.

The spirit and intent of the original meeting has been preserved for more than two decades. It is open to Neurosciences only, providing a forum for free exchange of ideas and presentation of innovations in neurological surgery and allied fields. This meeting of research and clinical applications in a relaxed setting has endured the test of time as a popular tribute to the memory of Dr. Richard Lende.

The Richard Lende Winter Neurosurgery Conference is jointly sponsored by the AANS.



DAVID L. KASDON

This and all Lende meetings since 1988 are dedicated to the memory of "Deel", whose untimely passing shocked all of us who were privileged to know and love him. The void, which we feel, cannot be filled, for he was so much a part of the vitality of this unique yearly gathering. His ability to enjoy life, to make work seem like play, is truly the spirit embodied in the Lende meeting.

PAST KASDON LECTURERS

1988 VINKO V. DOLENC, M.D., Ph.D.	2000 L. NELSON HOPKINS, M.D.
1989 BENNETT M. STEIN, M.D.	2001 PETER W. CARMEL, M.D.
1990 JOHN M. JACOBS, M.D.	2002 JAMES T. RUTKA, M.D., Ph.D.
1992 MADJID SAMII, M.D. M.D.	2003 STEVEN L. GIANNOTTA, M.D.
1993 RUDOLF FAHLBUSCH, M.D.	2004 DAVID G. PIEPGRAS, M.D.
1994 ROBERT F. SPETZLER, M.D.	2005 EDWARD H. OLDFIELD, M.D.
1996 AXEL PERNECZKY, M.D.	2006 VOLKER K.H. SONNTAG, M.D.
1997 NICHOLAS de TRIBOLET, M.D.	2007 ROY A. PATCHELL, M.D.
1998 BERNARD GEORGE, M.D.	2007 MICHAEL P. POWELL, M.D.
1999 M. PETER HEILBRUN, M.D.	

THE 2007 KASDON LECTURER'S

ROY A. PATCHELL, M.D.

MICHAEL P. POWELL, M.D.



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The AANS designates this educational activity for a maximum of *29.25 AMA PRA Category 1 Credit(s)™*. Physicians should only claim credit commensurate with the extent of their participation in the activity.

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2007 ANNUAL MEETING LEARNING OBJECTIVES

Session Neuro-Update Lende Conference

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

Objective 1: Formulate treatment plans for patients with brain tumors

Objective 2: Recognize the appropriate use of surgery, chemotherapy, radiation therapy, and stereotactic radiosurgery in the management of patients with brain tumors

Objective 3: Describe current brain tumor research trends and breakthroughs

Objective 4: Recommend appropriate clinical trials for patients with brain tumors.

Session Lende Conference

Objective 1: Recognize the contribution of the pediatric neurosurgeon.

Objective 2: Describe various vascular surgical treatment employed and outcomes.

Objective 3: Describe current surgical techniques and options pertaining to spinal surgery.

Objective 4: Recognize the importance of laboratory tumor research and clinical trials.

Future Meeting Dates

February 1-6, 2008

DISCLOSURE INFORMATION

The AANS and the Richard Lende Winter Neurosurgery Conference 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, speakers, paper presenters/authors and staff (and the significant others of those mentioned) are asked to disclose any relationship they or their co-authors have with commercial companies which may be related to the content of their lecture.

Speakers, paper presenters/authors and staff (and the significant others of those mentioned) who have disclosed a relationship* with commercial companies whose products may have a relevance to their presentation are listed below.

<u>Faculty Name</u>	<u>Disclosure</u>	<u>Type of Relationship</u>
Adam Arthur	Microvention, Inc.	Speaker
Robert Goodman	NeuroPace, Inc.	Steering Committee
M. Peter Heilbrun	Accuray	Consultant
John Hoffman	National Comprehensive Cancer Network GE Health Care Contra Dyn Inc.	Grant/Honorarium Honorarium/Consultant Shareholder/Consultant
J. Patrick Johnson	Flexispine, Spinewave, J&J	Consultant
Guy McKhann	NIH, Parents Against Childhood Epilepsy	University Grants/Research
Richard North	Advanced Bionics, ANS, Medtronic	Research Support
Theodore Schwartz	DuraSeal	Consultant

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

Speakers, paper presenters/authors and staff (and the significant others of those mentioned) who have reported they do not have relationships with commercial companies:

Faculty Name

Amin Amini
Martin Baggenstos
Mandy J. Binning

Frank S. Bishop
Peter W. Carmel
William Couldwell
Issac L. Elam
Michael Finn
Jeannette R. Flynn
Jonathan Friedman
Eddy Garrido
David L. Gillespie
Ronald Hammers
Raqeeb Haque
Paul House
Randy Jensen
David Kelly
Grace Kim
Janet Lee
Jay Loeffler
Russell Lonser
Alan Lozier
Christopher Mandigo
Todd McCall
J. Mocco
Toba Niazi
Alfred Ogden
Thomas Origitano
Roy Patchell
Brian Perri
David Piepgras
Bruce Pollock
Michael Peter Powell
Brian Ragel
Ganesh Rao
Karen Salzman
Matthias Schabel
Meic H. Schmidt
Dennis Shrieve
Khawar Siddique
L. Gerard Toussaint
Dick Zeilstra

2007 ANNUAL MEETING EXHIBITORS

Aesculap, Inc.
Anspach Companies
Brain Lab, Inc.
Carl Zeiss Surgical, Inc.

MONDAY February 5th	12:30 pm – 2:00 pm	Family Ski Lunch in Golden Cliff, Level B
TUESDAY February 6th Level C	12:30 pm – 2:00 pm 7:00 pm – 8:30 pm	Family Ski Lunch in Golden Cliff, Level B Closing Family Reception, Wasatch Room,
WEDNESDAY February 7th	7:30 am	First Tram Adventure, meet at Tram Center

Locations for Events:

Participant Breakfast (7:00 am – 8:30 am) Cliff	Saturday: Superior Room, Level C/Cliff Sunday – Tuesday, Ballroom II, Level B/Cliff Wednesday – Outside Ballroom I, Level B/ (8:00 am – 9:30 am)
Lende Meeting starts at 8:00 am	Ballroom I, Level B/Cliff
Opening Family Party	Ballroom I, Level B/Cliff
Family Ski Lunches	Golden Cliff, Level B/Cliff
Family Presentation	Ballroom I, Level B/Cliff
Family Buffet Dinner	Golden Cliff, Level B/Cliff (Tickets required)
Super Bowl on Big Screen	Ballroom I, Level B/Cliff
Exhibitors	Superior Room, Level C/Cliff (Saturday Only) Ballroom II/Level B/Cliff (Sunday – Tuesday)
Closing Family Party	Wasatch Room, Level C/Cliff
First Tram Adventure	Tram on Plaza

FRIDAY February 2, 2007

Neuro Update Session:

- 7:30 Continental breakfast – Building 550 Neuroscience Institute
- 8:00 Welcome--Randy Jensen M.D., Ph.D., Huntsman Cancer Institute
- 8:05 Opening remarks---Mary Beckerle, Executive Director HCI

SESSION 1. TREATMENT OF METASTATIC BRAIN TUMORS

Moderator Randy Jensen M.D. Ph.D.

- 8:10-8:40 Management of Intracranial Metastatic Disease– Roy Patchell M.D.
- 8:40-8:45 Questions
- 8:45-9:15 Radiation Therapy for Metastatic brain tumors– Jay Loeffler M.D.
- 9:15-9:10 Questions
- 9:10-9:45 Stereotactic Radiosurgery for Radio-Resistant metastatic lesions – Dennis Shrieve M.D. Ph.D.
- 9:45-10:10 BREAK - Building 550 Neuroscience Institute

SESSION 2. IMAGING OF BRAIN TUMORS

Moderator Dennis Shrieve M.D., Ph.D.

- 10:10-10:40 Novel Tracers for PET imaging of Brain Tumors– John Hoffman M.D.
- 10:40-10:45 Questions
- 10:45-11:15 Perfusion and Diffusion Imaging of Brain Tumors– Matthias Schabel and Karen Salzman M.D.
- 11:15-11:20 Questions
- 11:20-11:50 A Clinical Trial of Glioma Imaging Modalities and Tumor Biochemical Markers of Hypoxia and Vascularity– Randy Jensen M.D. Ph.D.
- 11:50-12:00 Questions
- 12:00-1:30 LUNCH - Building 550 Neuroscience Institute

SESSION 3. MANAGEMENT OF SELLAR LESIONS

Moderator- William Couldwell M.D. Ph.D.

- 1:30-2:15 Radiation Therapy of Pituitary Tumors- Jay Loeffler M.D.
- 2:15-2:20 Questions
- 2:20-2:50 Surgical Treatment- Michael Powell M.D.
- 2:50-2:55 Questions
- 2:55-3:25 Surgical Strategies for Protection of Pituitary Function and Optic Apparatus-
William Couldwell M.D. Ph.D.
- 3:25-3:30 Questions
- 3:30-4:00 BREAK - Building 550 Neuroscience Institute

SESSION 4. MANAGEMENT OF SPINAL TUMORS AND METASTATIC DISEASE

Moderator- Meic Schmidt

- 4:00-4:30 Minimally Invasive Surgery for Spinal Tumors- Meic Schmidt M.D.
- 4:35-4:40 Questions
- 4:40-5:10 Clinical Trials of the Management of Spinal Metastatic Disease- Roy Patchell
M.D.
- 5:10-5:15 Questions
- 5:15-5:30 Closing Remarks- Dennis Shrieve Ph.D.

SATURDAY MORNING, FEBRUARY 3rd, 2007

TUMOR

- 8:00-8:15 am Real-Time, Image-Guided Direct Convective Perfusion of Intrinsic Brainstem Pathology.
RUSSELL LONSER, M.D., Bethesda, MD
Russell Lonser, Katherine Warren, John Butman, Zenaide Quezado, R. Aaron Robinson, Stuart Walbridge, Raphael Schiffman, Marsha Merrill,
Marion L. Walker, Deric M. Park, David Croteau, Roscoe O. Brady,
Edward H. Oldfield
- 8:15-8:25 am Discussion
- 8:25-8:40 am The Anti-Apoptotic Protein, Bcl-2, Promotes Tumor Growth in a Mouse Model of Sonic Hedgehog-Induced Medulloblastoma.
TODD MCCALL, M.D., Salt Lake City, UT
Todd McCall, Carolyn A. Pedone, Daniel W. Fults
- 8:40-8:50 am Discussion
- 8:50-9:05 am Tumor Antigen Discovery in Pediatric Medulloblastoma Using Single Cell Laser Microdissection and Flow Cytometry Sorting.
CHRISTOPHER MANDIGO, M.D., New York, NY
Christopher Mandigo, Kevin O'Connor, Shannon L. McArdel, Nicole H. Moore, David Anderson, Jeffery N. Bruce, Richard CE Anderson
- 9:05-9:15 am Discussion
- 9:15-9:30 am A Novel Intracranial Meningioma Mouse Model Using Luciferase-Expressing Meningioma Cells.
ISSAC L. ELAM, B.S., Salt Lake City, UT
Issac L. Elam, Brian T. Ragel, David L. Gillespie, Jeannette R. Flynn, David A. Kelly, William T. Couldwell, MD, Randy L. Jensen
- 9:30-9:40 am Discussion
- 9:40-9:55 am Mechanisms of Morbid Hearing Loss Associated with Tumors of the Endolymphatic Sac in Von Hippel-Lindau Disease.
MARTIN BAGGENSTOS, M.D. Bethesda, MD
Martin Baggenstos, John A. Butman, Jeffery Kim, Joshua M. Ammerman,
James D'Ambrosia, Athos Patsalides, Nicholas J. Patronas, Edward H. Oldfield, Russell R. Lonser
- 9:55-10:10 Discussion

10:10-10:45

KASDON LECTURER

Clinical Trials of Spinal and Cranial Metastatic Disease.

ROY A. PATCHELL, M.D., Lexington, KY

Roy A. Patchell

10:45-11:00 am

Discussion

11:00 am

Adjourn

SUNDAY MORNING, FEBRUARY 4th, 2007

TUMORS

- 8:00-8:15 am Stereotactic Radiosurgery Using Intensity Modulated Radiosurgery vs
Dynamic Conformal Arcs for Parasellar Lesions: Methods for
Pretreatment Decision Making and Planning.
RANDY L. JENSEN, M.D., Ph.D., Salt Lake City, UT
Randy L. Jensen, Merideth M. Wendland, Shyh-Shi Chern, Dennis
C Shrieve
- 8:15-8:25 am Discussion
- 8:25-8:40 am Pituitary Adenoma Radiosurgery.
BRUCE E. POLLOCK, M.D., Rochester, MN
Bruce E. Pollock, MD
- 8:40-8:50 am Discussion
- 8:50-9:05 am Gamma Knife Radiosurgery in a Community Hospital – 7 Years
Experience.
EDDY GARRIDO, M.D., Lancaster, PA
Eddy Garrido
- 9:05-9:15 am Discussion
- 9:15-9:30 Group picture
- 9:30-9:45 am Stereotactic Radiosurgery– An Organized Neurosurgery-Sanctioned
Definition.
M. PETER HEILBRUN, M.D., Alta, Utah
M. Peter Heilbrun, Gene Barnett, Mark E. Linskey, John Adler,
Jeffery Cozzens, William Friedman, L. Dade Lunsford, Michael Schulder,
Andrew Sloan
- 9:45-9:55 am Discussion
- 9:55-10:05 am Early Experience with Intraoperative MRI (Brainsuite) Guided Brain
Tumor Resections.
GANESH RAO, M.D., Houston, TX
Ganesh Rao, Dima Suki, Jeffrey S. Weinberg, Komal Shah, Ed Jackson,
Dawid Schellingerhout
- 10:05-10:15 am Discussion

- 10:15-10:30 am The Supracerebellar-Infratentorial Approach to the Pineal Region.
ALAN P. LOZIER, M.D., Madison, WI
Alan P. Lozier
- 10:30 – 10:40 am Discussion
- 10:40 am Adjourn

SUNDAY AFTERNOON, FEBRUARY 4th, 2007

TUMORS

- 4:00-4:15 pm X-Stop Dynamic Interspinous Decompression and Stabilization; Early
Clinical Experience.
AMIN AMINI, M.D., Salt Lake City, UT
Amin Amini, Brian Ragel, Chad Cole, Darrel Brodke, Meic Schmidt
- 4:15-4:25 pm Discussion
- 4:25-6:00 pm **NEUROSURGICAL FORUM**
- 6:00 pm Adjourn

MONDAY MORNING, FEBRUARY 5th, 2007

TUMOR

- 8:00-8:15 am Correlating HIF-1a, its Downstream Molecular Markers, and
Preoperative Imaging with Survival in Adults with Glioblastoma
Multiforme– An Update of a Retrospective Study and Preliminary
Results
From an Ongoing Prospective Study.
JEANNETTE R. FLYNN, M.D., Salt Lake City, UT
Jeannette R Flynn, Karen Salzman, Anita Kinney, Randy Jensen
- 8:15-8:25 am Discussion
- 8:25-8:40 am Silencing of HIF-1a by RNA Interference Attenuates Human Glioma Growth
in Vivo.
DAVID L. GILLESPIE, Ph.D., Salt Lake City, UT
David L. Gillespie, Kum Whang, Brian T. Ragel, Jeannette R. Flynn,
David A. Kelly, Randy L. Jensen

- 8:40-8:50 am Discussion
- 8:50-9:10 am Show Preliminary Evidence that Unregulated Growth of White Matter Progenitors Causes Gliomas.
ALFRED T. OGDEN, M.D., New York, NY
Alfred T. Ogden, Marcela Assanah, Peter Canoll, Jeffery N. Bruce
- 9:10-9:20 am Discussion
- 9:20-9:40 am Galectin-1, a Gene Preferentially Expressed at the Tumor Margin, Promotes Glioblastoma Invasion.
L. GERARD TOUSSAINT, M.D., Rochester, MN
L Gerard Toussaint III, Allan E Nilson, Jennie M.Goble, Karla V. Ballman, C. David James, and Joon H. Uhm
- 9:40-9:50 am Discussion
- 9:50-10:20 am Castleman Disease of the Spine Mimicking a Nerve Sheath Tumor.
MICHAEL A. FINN, M.D., Salt Lake City, UT
Michael A. Finn, M.D., Meic H. Schmidt, M.D
- 10:20-10:30 am Discussion
- 10:30 am Adjourn

MONDAY AFTERNOON, FEBRUARY 5th, 2007

SPINE

- 4:00-4:15 pm Thoracoscopic Placement of Expandable Cages for Anterior Vertebral Body Reconstructions: Initial Experience.
BRIAN T. RAGEL, M.D., Salt Lake City, UT
Brian T. Ragel, Peter Kan, Amin Amini, Meic H. Schmidt
- 4:15-4:25 pm Discussion
- 4:25-4:40 pm Treatment of Cervical Kyphotic Deformities Using a Novel Classification System.
BRIAN PERRI, D.O., Los Angeles, CA
Brian Perri, Khawar Siddique, and J. Patrick Johnson
- 4:40-4:50 pm Discussion
- 4:50-5:05 pm Sacral Fractures after Segmental Posterior Lumbar Instrumentation and

Fusion.

KHAWAR SIDDIQUE, M.D., Los Angeles, CA
Khawar Siddique, Brian Perri, and J. Patrick Johnson

- 5:05-5:15 pm Discussion
- 5:15-5:30 pm Surgical Treatment of Non-Rheumatoid Atlantoaxial Degenerative Arthritis.
MICHAEL FINN, M.D., Salt Lake City, UT
Michael Finn, M.D. , Daniel R. Fassett, M.D., Ronald I. Apfelbaum
- 5:30-5:40 pm Discussion
- 5:40-5:55 pm Sense and Nonsense in Spinal Arthroplasty.
DICK ZEILSTRA, M.D., Zwolle, The Netherlands
Dick Zeilstra
- 5:55-6:05 pm Discussion
- 6:05-6:20 pm Anterior Cervical Decompression, Instrumentation, and Fusion in
Treatment of Acute Traumatic Subaxial Cervical Spine Injury: A Review of 349
Consecutive Patients.
AMIN AMINI, M.D., Salt Lake City, UT
Amin Amini, Peter Kan, Meic Schmidt, Ronald Apfelbaum
- 6:20-6:30 pm Discussion
- 6:30 pm Adjourn

TUESDAY MORNING, FEBRUARY 6th, 2007

SPINE/EPILEPSY/FUNCTIONAL

- 8:00-8:15 am Spinal Nerve Root Stimulation for the Treatment of Intercostals Neuralgia.
RAQUEEB HAQUE, M.D., New York, NY
Raqueeb Haque, Christopher Winfree
- 8:15-8:25 am Discussion
- 8:25-8:40 am Spinal Cord Stimulation Versus Re-Operation for Failed Back Surgery
Syndrome: A Cost Effectiveness and Cost Utility Based on a
Randomized, Controlled Trial.
RICHARD B. NORTH, M.D., Baltimore, MD
Richard B. North, David Kidd, Jane Shipley, Rod S. Taylor
- 8:40-8:50 am Discussion
- 8:50-9:05 am Medico- Legal Ethics in Spina Bifida.
TOBA NIAZI, M.D., Salt Lake City, UT
Toba Niazi, Marion Walker
- 9:05-9:15 am Discussion
- 9:15-9:30 am E lectrophysio logical Properties of Scar A strocy tes in H um an S clerotic
Hippocampus.
GUY MCKHANN, M.D., New York, NY
Xiaoping Wu, Alexander A. Sosunov, Robert R. Goodman, Guy M.
McKhann
- 9:30-9:45 am Early Observations with a Cortically Implanted Microelectrode Array in
Patients Undergoing Surgery for Medically Refractory Epilepsy.
ROBERT R. GOODMAN, M.D., New York, NY
Robert R. Goodman, CA Schevon, J Cappell, SK Ng, A Banner, A
Waziri,
GM McKhann, RG Emerson
- 9:45-9:55 am Discussion
- 9:55-10:20 am Magnetoencephalographic Localization of Interhemispheric Epileptiform
Activity Confirmed with Subdural Electrode Monitoring.
PAUL A. HOUSE, M.D., Salt Lake City, UT
Toba Niazi, Tawnya Constantino, Michael Funke, Paul House
- 10:20-10:30 am Discussion

10:30 am Adjourn

TUESDAY AFTERNOON, FEBRUARY 6th, 2007

VASCULAR/TRAUMA

- 4:00-4:15 pm The Incidence of Heparin-Induced Thrombocytopenia Type II in Subarachnoid Hemorrhage Patients Treated with Heparin Versus Enoxaparin.
GRACE H. KIM, M.D., New York, NY
Grace H. Kim, David K Hahn, Christopher P. Kellner, Jiang Yao, and Sander Connolly
- 4:15-4:25 pm Discussion
- 4:25-4:40 pm Aneurysm Treatment in a Combined Cerebrovascular/Endovascular Practice.
ADAM ARTHUR, M.D., Memphis, TN
Adam Arthur, Clarence Watridge, John Barr
- 4:40-4:50 pm Discussion
- 4:50-5:05 pm Intraspinal Epidural Arteriovenous Fistulae– Clinical Spectrum and Management in a Limited Case Series.
DAVID G. PEIPGRAS, M.D., Rochester, NY
David G. Piepgras, Michelle J. Clarke
- 5:05-5:10 pm Discussion
- 5:10-5:25 pm Implementing Intraoperative Angiography for Aneurysm Surgery– Lessons Learned and Practical Considerations.
JONATHAN A. FRIEDMAN, M.D., College Station, TX
Jonathan A. Friedman, S. Scott Lollis, Puya Alikahni
- 5:25-5:35 pm Discussion
- 5:35-5:50 pm Inflammatory Cascades Play a Significant Role in Progressive Neurological Injury Following Transient Cerebral Ischemia.
J.MOCCO, M.D., New York, NY
J Mocco
- 5:50-6:05 pm Discussion
- 6:05-6:20 pm Injectable Adult Stem Cells as a Novel Therapeutic Platform for Anterior and Posterior Spinal Fusion.

Neel J. PATRICK JOHNSON, M.D., Los Angeles, CA
Dima Sheyn, Gadi Pelled, Zulma Gazit, Christopher J. Zarembinski,
Anand, J. Patrick Johnson, Dan Gazit

6:20-6:30 pm Discussion

6:30 pm Adjourn

WEDNESDAY MORNING, FEBRUARY 7th, 2007

GENERAL NEUROSURGERY/SHUNTS

8:00-9:00 **FIRST TRAX**

9:00-9:15 am Glutaric Aciduria Type 1 Presenting as Bilateral Subdural Hematomas
Mimicking Non-Accidental Trauma: Case Report and Review of
the Literature.

FRANK S. BISHOP, M.D., Salt Lake City, UT
Frank S. Bishop, James K. Liu, Todd D. McCall, Douglas L.

Brockmeyer

9:15-9:25 Discussion

9:25-9:40 am How Complicated Can You Make a Ventriculoperitoneal Shunt?

THOMAS C. ORIGITANO, M.D., Maywood, IL
Thomas C. Oritano, Vikram Prabhu, Ronald Hammers.

9:40-9:50am Discussion

9:50-10:05 am Laparoscopic-assisted Lumboperitoneal Shunt Placement for Idiopathic
Intracranial Hypertension.

RONALD HAMMERS, M.D., Maywood, IL
Ronald Hammers, Vikram Prabhu, Sharfi Sarkar, Walter Jay, Thomas
Origitano

10:05-10:15 am Discussion

10:15-10:30 am The Dems are Coming! The Dems are Coming! What's Going to
Happen to us Docs?

PETER W. CARMEL, M.D., Newark, NJ
Peter W. Carmel, M.D.

10:30-10:40 am Discussion

10:40 – 11:10 am **KASDON LECTURER**
Changes to Training in UK Neurosurgery

MICHAEL P. POWELL, M.D., London, England
Michael Powell,

11:10-11:30 am	Discussion
11:30-12:00 pm	Business Meeting
12:00 pm	Meeting Adjourn