

RICHARD LENDE
WINTER
NEUROSURGERY
CONFERENCE

JANUARY 29TH – FEBRUARY 3RD, 2010
CLIFF LODGE
SNOWBIRD, UTAH

36th 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.



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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.	2001	PETER W. CARMEL, M.D.
1989	BENNETT M. STEIN, M.D.	2002	JAMES T. RUTKA, M.D., Ph.D.
1990	JOHN M. JACOBS, M.D.	2003	STEVEN L. GIANNOTTA, M.D.
1992	MADJID SAMII, M.D.	2004	DAVID G. PIEPGRAS, M.D.
1993	RUDOLF FAHLBUSCH, M.D.	2005	EDWARD H. OLDFIELD, M.D.
1994	ROBERT F. SPETZLER, M.D.	2006	VOLKER K.H. SONNTAG, M.D.
1996	AXEL PERNECZKY, M.D.	2007	ROY A. PATCHELL, M.D.
1997	NICHOLAS de TRIBOLET, M.D.	2007	MICHAEL P. POWELL, M.D.
1998	BERNARD GEORGE, M.D.	2008	WARREN R. SELMAN, M.D.
1999	M. PETER HEILBRUN, M.D.	2009	MANFRED WESTPHAL, M.D.
2000	L. NELSON HOPKINS, M.D.		

THE 2010 KASDON LECTURER

RONALD I. APFELBAUM, M.D.



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ACCREDITATION/CONTINUING MEDICAL EDUCATION

This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint sponsorship of the AANS and the Richard Lende Winter Neurosurgery Conference. The AANS is accredited by the ACCME to sponsor continuing medical education for physicians.

The AANS designates this educational activity for a maximum of 21.5 *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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Some drugs and medical devices demonstrated or described on the print publications of the Richard Lende Winter Neurosurgery Conference, and jointly sponsored by the AANS have FDA clearance for use for specific purposes or for use only in restricted research settings. The FDA has stated that it is the responsibility of the physician to determine the FDA status of each drug or device he or she wishes to use in compliance with the applicable law.

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2010 ANNUAL MEETING LEARNING OBJECTIVES

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

1. Explain spinal biomechanics and how it applies to clinical practice.
2. Discuss the latest developments in brain tumor biology.
3. Discuss recent clinical trials and research concerning patients with epilepsy, movement disorders and spasticity.

Future Meeting Dates

January 28th- February 2nd, 2011

Disclosure Information

The AANS controls the content and production of this CME activity and attempts 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), 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 interests which may be related to the content of their lecture. The ACCME defines “relevant financial relationships” as financial relationships in any amount occurring within the past 12 months that create a conflict of interest.

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

<u>Name</u>	<u>Disclosure</u>	<u>Type of relationship</u>
Ronald I. Apfelbaum	Aesclup, Integra, Medtronic, Synthes, Depuy	Consultant, Stock Shareholder, Other Financial or Material Support
Adam Arthur	Microventin, Cordis, Inc	Honorarium
Andrew Dailey	Amedica, Stryker, Biomet	Other Financial Support, Grants, Consultant
J. Patrick Johnson	Depuy Spine, Flexuspine, Spine Wave, Alphatec, Pioneer Medical, Johnson & Johnson	Consultants, Stock Shareholder

*Relationship refers to receipt of royalties, consultancy, funding by research grant, receiving honoraria for educational services elsewhere, or any other relationship to a commercial interest 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 any relationships with commercial interests:

Mandy Binning
Frank Bishop
Christian Bowers
Taryn Bragg
Douglas Brockmeyer
Andrew Carlson
Peter Carmel
Bradley Duhon
Ramin Eskandari
Fabian Fahlbusch
Rudolf Fahlbusch

Daniel Fults
Sarah Garber
David Gillespie
Wayne Gluf
Randy Jensen
Christopher Kellner
Paul Klimo
Janet Lee
James Liu
Michael Mumert
David Newell
Toba Niazi
T.C. Origitano
David Piepgras
Vikram Prabhu
Brian Ragel
Ganesh Rao
Jose Carlos Sauri
Tina Sayama
Richard Schmidt
Kris Smith
Adam Sonabend
Philipp Tausky
Michael Taylor
Philip Weinstein
Dick Zeilstra

2010 ANNUAL MEETING EXHIBITORS

Aesculap, Inc
Aesculap Implant Systems, LLC.
Anspach Companies
Biomet Microfixation
Globus Medical
KLS Martin, L.P.
Lanx, Inc
Leica Microsystems
Medtronic Navigation/Medtronic Spine and Biologics
Medtronic Surgical Technologies
Monteris Medical
Novus Surgical, Inc.
NuVasive
OmniGuide, Inc.
Porex, Inc.
Stryker
Stryker NSE
Synthes CMF

SOCIAL PROGRAM

FRIDAY January 29 th	7:00 pm - 8:30 pm	Opening Family Reception, Ballroom I, Level B
SATURDAY January 30 th	12:30 pm - 2:00 pm 6:30 pm - 7:30 pm 7:30 pm - 9:00 pm	Family Ski Lunch in Golden Cliff, Level B Family Presentation, Ballroom I Family Dinner Buffet in Golden Cliff, Level B (Tickets Required for Buffet)
SUNDAY January 31 st	9:00 am 12:30 pm - 2:00 pm	Physician's Group Photo Family Ski Lunch in Golden Cliff, Level B
MONDAY February 1 st	12:30 pm - 2:00 pm	Family Ski Lunch in Golden Cliff, Level B
TUESDAY February 2 nd	12:30 pm - 2:00 pm 7:00 pm - 8:30 pm	Family Ski Lunch in Golden Cliff, Level B Closing Family Reception, Atrium, Level B
WEDNESDAY February 3 rd	7:45 am	First Tram Adventure, meet at Tram Center

Locations for Events:

Participant Breakfast (7:00 am – 8:30 am) <i>Except Saturday and Wednesday between 8:00 am – 9:30 am</i>	Saturday - Tuesday: Ballroom II, Level B/Cliff Wednesday - Ballroom I, Level B/ Cliff
Lende Meeting Saturday starts 9:00 am	Ballroom I, Level B/Cliff
Lende Meeting other days starts at 8:00 am	Ballroom I, Level B/Cliff
Opening Family Reception	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)
Exhibitors	Ballroom II, Level B/Cliff
Closing Family Reception	Atrium, Level B/Cliff
First Tram Adventure	Tram on Plaza

SATURDAY MORNING JANUARY 30th, 2010

SPINE

- 9:00-9:15 am Supra- and Infratentorial Hemorrhages after Spinal Surgery: Case Report and Review of the Literature.
CHRISTIAN BOWERS, M.D., Salt Lake City, UT
Christian Bowers, Philipp Tausky, Bradley Duhon, Meic Schmidt
- 9:15-9:25 am Discussion
- 9:25-9:40 am Atlantal Hemi-Rings and Cranial-Cervical Instability: Identification, Clinical Characteristics and Management.
TARYN BRAGG, M.D., Salt Lake City, UT
Taryn Bragg, Douglas Brockmeyer
- 9:40-9:50 am Discussion
- 9:50-10:05 am Intraspinial Extradural Meningeal Cysts: Perspectives on Clinical Features, Diagnosis, and Management from a Limited Personal Experience.
DAVID G. PIEPGRAS, M.D., Rochester, MN
David G. Piepgras, Bret G. Ball, Neeraj Kumar, Patrick H. Luetmer
- 10:05-10:15 am Discussion
- 10:15-10:35 am Cervical Neuropraxia from Spine Trauma Study Group.
ANDREW T. DAILEY, M.D., Salt Lake City, UT
Andrew T. Dailey, M.D.
- 10:35-10:45 am Discussion
- 10:45-11:00 am Arthroplasty in the Military: A Preliminary Experience with Prodisc-C and Prodisc-L. Algorithm for Return to Military Duty and Activity.
WAYNE M. GLUF, M.D., San Diego, CA
Luis M. Tumialan, Ryan Ponton, Wayne M. Gluf
- 11:00-11:10 am Discussion
- 11:10-11:25 am Adult Tethered Cord.
PHILIP R. WEINSTEIN, M.D., San Francisco, CA
Philip R. Weinstein
- 11:25-11:35am Discussion
- 11:35 am Adjourn

SATURDAY AFTERNOON, JANUARY 30th, 2010

SPINE

- 4:00-4:30 pm **KASDON LECTURER**
Spine Surgery Myths and Misconceptions: Do we Really Know What we Think we Know?
RONALD I. APFELBAUM, M.D., Salt Lake City, UT
Ronald I. Apfelbaum
- 4:30-4:40 pm Discussion
- 4:40-5:10 pm Motor Neuron Stem Cell Transplantation for Degenerative Spinal Cord Disorder.
J. PATRICK JOHNSON, M.D., Los Angeles, CA
J. Patrick Johnson
- 5:10-5:20 pm Discussion
- 5:20-5:50 pm The Use of Intraoperative O-arm as an Aid for Spinal Instrumentation.
SARAH GARBER, M.D., Salt Lake City, UT
Sarah Garber, Erica Bisson, Meic Schmidt, Andrew Dailey
- 5:50-6:00 pm Discussion
- 6:00 pm Adjourn

SUNDAY MORNING, JANUARY 31ST, 2010

SPINE/PERIPHERAL NERVE

- 8:00-8:20 am Isolated Intramedullary Neurosarcoïd of the Thoracic Spine: Case Report and Review of the Literature.
BRAD DUHON, M.D., Salt Lake City, UT
Brad Duhon, Meic Schmidt, Lubdha Shah
- 8:20-8:30 am Discussion
- 8:30-8:50 am Surgical Nuances for Removal of Retrochiasmal Craniopharyngiomas Using the Transbasal Subfrontal Trans-Lamina Terminalis Approach.
JAMES K. LIU, M.D.
James Liu
- 8:50-9:00 am Discussion
- 9:00-9:25 am Dynamic Stabilization Devices.
JOSÉ-CARLOS SAURI-BARRAZA, M.D., Salt Lake City, UT
José-Carlos Sauri-Barraza
- 9:25-9:35 am Discussion
- 9:35-9:55 am Transaxial Fixation of the Lumbosacral Segment. Results with One and Two Years Follow-Up.
DICK ZEILSTRA, M.D., Zwolle, The Netherlands
Dick Zeilstra
- 9:55-10:05 am Discussion
- 10:05-10:25 am Ultrasound-Guided, Percutaneous Peripheral Nerve Stimulation: A Technical Note.
CHRISTOPHER KELLNER, M.D., New York, NY
Christopher Kellner, Adam Sonabend, Ricardo Komotar, Gaetan Moise, Christopher Winfree
- 10:25-10:35 am Discussion
- 10:35 am Adjourn

SUNDAY AFTERNOON, JANUARY 31ST, 2010

TUMOR

- 4:00-4:15 pm Surgical Management of Giant Craniopharyngiomas in Children.
FABIAN FAHLBUSCH, M.D., Erlangen-Nürnberg, Germany
Fabian Fahlbusch, H.G. Dörr, Rudolf Fahlbusch
- 4:15-4:25 pm Discussion
- 4:25-4:40 pm Intraoperative Visualization of Cerebral Gliomas: Significance of
Functional Navigation and Intraoperative MRI.
RUDOLF FAHLBUSCH, M.D., Hannover, Germany
Rudolf Fahlbusch
- 4:40-4:50 pm Discussion
- 4:50-5:05 pm Parafalcine Lesions in the Cancer patient: Diagnostic Dilemma
Meningioma or Metastatic Lesion.
MICHAEL MUMERT, M.D., Salt Lake City, UT
Michael Mumert, Elizabeth Jensen, Randy Jensen
- 5:05-5:15 pm Discussion
- 5:15-5:30 pm PDGF+PTEN-/-p53-/- Murine Glioma Model: Monitoring of Tumor-
Growth and Response to Therapy by Bioluminescence.
ADAM M. SONABEND, M.D., New York, NY
Adam M. Sonabend, Liang Lei, Craig Soderquist, Jonathan Yun, Juila
Sisti, Gaetan Moise, Rick Komotar, Jeffrey Bruce, Peter Canoll
- 5:30-5:40 pm Discussion
- 5:40-5:55 pm The Incidence of C2-C3 Annular Ossification after Odontoid Screw
Fixation. CHRISTINA SAYAMA, M.D., Salt Lake City, UT Christina
Sayama, Daniel Fassett, Ronald Apfelbaum
- 5:55- 6:05 pm Discussion
- 6:05-6:20 pm Papillary Breast Cancer Mimicking Intracranial Ependymoma.
TOBA N. NIAZI, M.D., Salt Lake City, UT
Toba Niazi, Daniel Fults
- 6:20-6:30 pm Discussion
- 6:30 pm Adjourn

MONDAY MORNING, FEBRUARY 1ST, 2010

TUMOR

- 8:00-8:15 am Medulloblastoma Comprises Four Diseases.
MICHAEL TAYLOR, M.D., Toronto, Ontario, Canada
Paul Northcott, Andrey Korshunov, Hendrik Witt, Thomas Heilscher,
Charles Eberhart, Stephen Mack, Eric Bouffet, Steven Clifford, Cynthia
Hawkins, Pim French, James Rutka, Stefan Pfister, Michael Taylor
- 8:15-8:20 am Discussion
- 8:20-8:35 am Management of Unknown Primary Cancers Metastatic to the Spine.
GANESH RAO, M.D., Houston, TX
Ganesh Rao, Benjamin Fox, Michele Aizenberg, Dima Suki,
Laurence Rhines
- 8:35-8:45 am Discussion
- 8:45-9:00 am Intracranial siRNA Delivery.
DAVID GILLESPIE, PH.D., Salt Lake City, UT
David Gillespie, Randy Jensen
- 9:00-9:05 am Discussion
- 9:05-9:20 am Overall and Progression-Free Survival and Visual and Endocrine
Outcomes for Lesions Treated with Intensity-Modulated Stereotactic
Radiosurgery.
RANDY L. JENSEN, M.D., PH.D., Salt Lake City, UT
Randy Jensen, Peter Jensen, Annabelle Shrieve, Lisa Hazard,
Dennis Shrieve
- 9:20-9:30 am Discussion
- 9:30-9:45 am Update on the Management of Pineal Region Tumors.
VIKRAM PRABHU, M.D., Maywood, IL
Howard Reichman, Vikram Prabhu
- 9:45-9:50 am Discussion
- 9:50-10:05 am Radiosurgery for Brain Metastases after Surgical Resection.
KRIS SMITH, M.D., Phoenix, AZ
Kris Smith
- 10:05-10:10 am Discussion
- 10:10-10:25 am Association of Hypoxia-Related Biochemical Markers with Histological,
Clinical, and Radiographic Characteristics of Meningiomas.

JANET LEE, M.D., Salt Lake City, UT
Janet Lee, Randy Jensen

10:25-10:30 am Discussion

10:30 am Adjourn

MONDAY AFTERNOON, FEBRUARY 1ST, 2010

VASCULAR NEUROSURGERY

4:00-4:15 pm The Difficult Diagnosis and Definition of Meningitis after Aneurysmal Subarachnoid Hemorrhage.

ANDREW P. CARLSON, M.D., Albuquerque, NM
Andrew Carlson, Howard Yonas, Isaac Tawil

4:15-4:25 pm Discussion

4:25-4:40 pm Sonothrombolysis: Something New for Neurosurgery.

DAVID W. NEWELL, M.D., Seattle, WA
David Newell, Moshin Shah, Robert Wilcox, Doug Hansmann, Dan Hanley

4:40-4:50 pm Discussion

4:50-5:05 pm Evolving Treatment Options for Giant Cerebral Aneurysms.

ADAM S. ARTHUR, M.D., MPH, Memphis, TN
Arthur AS, Afshani M

5:05-5:15pm Discussion

5:15-5:30 pm Xenon/CT CBF at 28% Xenon Provides Safe Access to Quantitative, Clinically Useful CBF Information: A Multicenter Study.

ANDREW P. CARLSON, M.D., Albuquerque, NM
Andrew Carlson, Alice Brown, Eric Zagerm, Ken Uchino, Michael Marks, Claudia Robertson, Grant Sinson, Anthony Marmarou, Howard Yonas

5:30-5:40 pm Discussion

5:40-5:55 pm Stenting of Symptomatic Intracranial Arterial Dissection in an Adolescent: Case Report.

MANDY BINNING, M.D., Buffalo, NY
Mandy Binning, Adnan Siddiqui, LN Hopkins and Elad Levy

5:55-6:05 pm Discussion

6:05-6:20 pm	First Report of US Experience with SILK Flow Diverting Device for Intracranial Aneurysms and use of the Pipeline Embolization Device. MANDY BINNING, M.D., Buffalo, NY Mandy Binning, Sabaraeesh Natarajan, Ketan Bulsara, LN Hopkins, Adnan Siddiqui, and Elad Levy.
6:20-6:30 pm	Discussion
6:30 pm	Adjourn

TUESDAY MORNING, FEBRUARY 2nd, 2010

GENERAL NEUROSURGERY

- 8:00-8:15 am Novel Strategies for Treatment and Repair of Bone Flap and Cranioplasty Infections.
FRANK S. BISHOP, M.D., Salt Lake City, UT
Frank Bishop, Randy Jensen, Richard Schmidt
- 8:15-8:25 am Discussion
- 8:25-8:40 am A Compensation Model for Academic Neurosurgical Surgery Departments.
T.C. ORIGITANO, M.D., PH.D., Maywood, IL
T.C. Origitano, Amy Heara
- 8:40-8:50 am Discussion
- 8:50-9:05 am Rudolf Nissen and the Age of Surgical Science in Middle Europe.
DANIEL W. FULTS, M.D.
Daniel Fults, Philipp Taussky
- 9:05-9:15 am Discussion
- 9:15-9:30 am Current Status of Health Care Reform – Role of AMA and Neurosurgery.
PETER CARMEL, M.D., Newark, NJ
Peter Carmel
- 9:30-9:40 am Discussion
- 9:40-9:55 am Endoscopic Management of Decompensated Aqueductal Stenosis Causing Hydrocephalus in Adults.
RICHARD H. SCHMIDT, M.D., Salt Lake City, UT
Richard Schmidt
- 9:55-10:05 am Discussion
- 10:05-10:20 am Acquisition of Surgical Expertise and Analysis of Expert Performance in Surgery: An Overview of Relating Factors.
PHILIPP TAUSSKY, M.D., Salt Lake City, UT
Philipp Taussky
- 10:20-10:30 am Discussion
- 10:30 am Adjourn

TUESDAY AFTERNOON, FEBRUARY 2nd, 2010

TRAUMA

- 4:00-4:20 pm Neurosurgery in Afghanistan During “Operation Enduring Freedom”: A 24-Month Experience.
BRIAN T. RAGEL, M.D., Portland, OR
Brian Ragel, Paul Klimo, Robert Kowalski, Randall McCafferty, Jeannette Liu, Derek Taggard, David Garrett
- 4:20-4:30 pm Discussion
- 4:30-4:50 pm Should we Operate on Patients Older than 65 years for Acute Traumatic Subdural Hematoma?
PHILIPP TAUSSKY, M.D., Salt Lake City, UT
Philipp Tausky
- 4:50-5:00 pm Discussion
- 5:00-5:20 pm Fractures of the Thoracolumbar Spine Sustained by Soldiers in Vehicles Attacked by Improvised Explosive Devices (IED).
BRIAN T. RAGEL, M.D., Portland, OR
Brian Ragel, Dain Allred, Sid Brevard, Edmund Frank
- 5:20-5:30 pm Discussion
- 5:30-5:50 pm Efficacy of Repeated 14.6% Saline Boluses in L Intracranial Pressure and Improving Cerebral Perfusion.
RAMIN ESKANDARI, M.D, Salt lake City, UT
Ramin Eskandari, Elaine Skalabrin
- 5:50-6:00 pm Discussion
- 6:00-6:20 pm Wartime Decompressive Craniectomy: Techniques and Lessons Learned.
BRIAN T. RAGEL, M.D., Portland, OR
Brian Ragel, Paul Klimo
- 6:20-6:30 pm Discussion
- 6:30 pm Adjourn

WEDNESDAY MORNING, FEBRUARY 3rd, 2010

PEDIATRIC NEUROSURGERY

- | | |
|----------------|---|
| 8:00-9:00 am | FIRST TRAX – no CME |
| 9:00-9:30 am | The Pediatric Cervical Spine Instability Study.
DOUGLAS L. BROCKMEYER, M.D., Salt Lake City, UT
Douglas Brockmeyer |
| 9:30-9:40 am | Discussion |
| 9:40-10:10 am | Pediatric Experience in Afghanistan.
PAUL KLIMO, M.D., Wright-Patterson Air Force Base, OH
Paul Klimo |
| 10:10-10:20 am | Discussion |
| 10:20-10:50 am | Fourth Ventricular Shunt Survival Comparing Stereotactic Transtentorial and Suboccipital Approaches.
FRANK S. BISHOP, M.D., Salt Lake City, UT
Frank Bishop, Mandy Binning, Nicholas Wetjen, Daniel Couture, Douglas Brockmeyer |
| 10:50-11:00 am | Discussion |
| 11:00 am | Business Meeting |
| 11:30 am | Meeting Adjourn |