

# 2008 Advanced Gamma Knife Course

## Wednesday, October 22, 2008

7:15 - 8:00 a.m.	Breakfast
8:00 - 8:15 a.m.	Opening Remarks
8:15 - 8:25 a.m.	<b>Dr. Edward Nemergut</b> – The Advantages of Placement of the Gamma Frame in the OR under Monitored Anesthesia
8:45 - 10:00 a.m.	Hands-on in the OR for Frame Placement
10:00 - 10:10 a.m.	Break
10:10 - 10:30 a.m.	<b>Dr. C. Douglas Phillips</b> – Imaging for Pituitary Adenomas
10:30 - 11:30 a.m.	<b>Dr. David Schlesinger, Dr. Chun-Po Yen, and Carlos Carbini</b> – Working with Gamma Planning
11:30 - 12:40 p.m.	Lunch
12:40 - 1:00 p.m.	<b>Dr. John Jane, Jr.</b> – Endoscopic Approaches to Sellar and Parasellar Tumors
1:00 - 1:30 p.m.	<b>Dr. Edward Oldfield</b> – Transsphenoidal Approaches to Sellar and Parasellar Tumors
1:30 - 1:55 p.m.	<b>Dr. Vinko V. Dolenc</b> – Transcranial Approaches to the Pituitary and Cavernous Sinus
1:55 - 2:25 p.m.	<b>Dr. Jason Sheehan</b> – Gamma Knife Surgery for Pituitary Adenomas – Methods to Avoid Damage to the Optic Apparatus
2:25 - 2:40 p.m.	Roundtable Discussion on PITS with <b>Drs. Vinko V. Dolenc, Jason Sheehan, and Ladislau Steiner</b>
2:40 - 2:50 p.m.	Break
2:50 - 4:35 p.m.	<b>Dr. David Schlesinger, Dr. Chun-Po Yen, and Carlos Carbini</b> – Hands-on Dose Planning
6:30 p.m.	Dinner at Farmington Country Club. <b>Dr. Steiner</b> will speak about, “The Future of Closed Skull Stereotaxic Neurosurgery.”

## Thursday, October 23, 2008

6:30 - 7:15 a.m.	Breakfast
7:15 - 8:00 a.m.	Hands-on in the OR for Frame Placement
8:00 - 8:25 a.m.	<b>Dr. Mary Lee Vance</b> – Medical Management for Cushing’s Disease
8:25 - 8:45 a.m.	<b>Dr. C. Douglas Phillips</b> – Neuroimaging of AVMs
8:45 - 9:05 a.m.	<b>Dr. Mary Jensen</b> – Embolization of AVMs
9:05 - 9:25 a.m.	<b>Dr. Neal Kassell</b> – Surgical Resection of AVMs and Cavernous Malformations
9:25 - 9:45 a.m.	<b>Dr. Vinko V. Dolenc</b> – Anatomical Considerations for Intracranial Microsurgery and Radiosurgery
9:45 - 9:55 a.m.	Break
9:55 - 10:45 a.m.	<b>Dr. Ladislau Steiner</b> – Arteriovenous and Cavernous Malformation Residuals After Microsurgery and Gamma Surgery – Value of Embolization before Gamma Surgery – Treatment of Large AVMs – Adverse Effects
10:45 - 11:05 a.m.	Roundtable Discussion on Gamma Knife for Vascular Lesions with <b>Drs. Vinko V. Dolenc, Neal Kassell, and Ladislau Steiner</b>
11:05 - 11:25 a.m.	<b>Dr. Mark Quigg</b> – Epilepsy & Gamma Knife
11:25 - 11:50 a.m.	<b>Dr. Michael Thorner</b> – Diagnosis and Management of Patients with Acromegaly
11:50 - 12:15 p.m.	<b>Dr. David Schlesinger, Dr. Chun-Po Yen, and Carlos Carbini</b> – Hands-on Dose Planning
12:15 - 1:00 p.m.	Lunch and Discussion on Publication Philosophy
1:00 - 1:45 p.m.	<b>Dr. Vinko V. Dolenc</b> – Microsurgery in Vestibular Schwannomas
1:45 - 2:30 p.m.	Gamma Knife Perfexion
2:30 - 3:00 p.m.	Gamma Planning and Discussion of Participant’s Cases
3:00 p.m.	Historical Tour of the Lawn
6:30 p.m.	Dinner in the Rotunda’s Dome Room

## Friday, October 24, 2008

6:30 - 7:15 a.m.	Breakfast
7:15 - 8:00 a.m.	Hands-on in the OR for Frame Placement
8:00 - 8:45 a.m.	<b>Dr. Vinko V. Dolenc</b> – Skull Base Meningioma Surgery
8:45 - 9:30 a.m.	<b>Dr. Ladislau Steiner</b> – Meningiomas – Small and Moderate Sized Meningiomas – Treatment of Large Meningiomas by Targeting only the Nutritive Vessel
9:30 - 9:45 a.m.	Break
9:45 - 10:15 a.m.	<b>Dr. Steven Newman</b> – Neuro-ophthalmological Concerns Related to Gamma Surgery
10:15 - 10:50 a.m.	<b>Dr. Ladislau Steiner</b> – Vestibular Schwannomas – Treatment of Small Vestibular Schwannomas – Treatment of Large Vestibular Schwannomas
10:50 - 11:00 a.m.	Discussion
11:00 - 11:20 a.m.	Round Table Discussion on Gamma Knife for Skull Base Tumors with <b>Drs. Vinko V. Dolenc, Steven Newman, and Ladislau Steiner</b>
11:20 - 12:45 p.m.	<b>Dr. David Schlesinger, Dr. Chun-Po Yen, and Carlos Carbini</b> – Hands-on Dose Planning
12:45 - 1:45 p.m.	Lunch and Discussion on Ethics
1:45 - 2:05 p.m.	<b>Dr. Jason Sheehan</b> – Brain Metastasis: Radiosurgical Indications & Outcomes
2:05 - 2:25 p.m.	<b>Dr. Tyvin Rich</b> – An Update on Neurotoxicity and Neurocognitive Function after Irradiation and Emerging Radiation Therapy Technologies
2:25 - 2:40 p.m.	<b>Dr. Ladislau Steiner</b> – Concluding Remarks
2:40 - 4:15 p.m.	<b>Dr. David Schlesinger, Dr. Chun-Po Yen, and Carlos Carbini</b> – Hands-on Dose Planning
4:15 - 5:15 p.m.	Discussion of Participant’s Cases
6:30 p.m.	Panel Discussion with <b>Drs. Vinko Dolenc, Neal Kassell, Tyvin Rich, and Steven Newman.</b>

# 2008 Advanced Gamma Knife Course

## Course Information

### Date and Time

Participants will arrive on the evening of October 21st. Classes will begin Wednesday, October 22nd at 8:00am and commence October 24th.

### Topics

AVM's and Skull Base Tumors (i.e. pituitary adenomas, acoustic neuromas, and meningiomas).

### Size and Participation

Individual participation in discussion and hands-on exercises is expected. The course is limited to 20 participants to foster an effective learning environment.

### Course Overview

In this advanced course, all participants are expected to have a fundamental knowledge of radiosurgical principles. We will focus upon the nuances of Gamma Knife surgery for the treatment of AVM's, pituitary adenomas, acoustic neuromas, and meningiomas. For AVM's, we will detail our protocol and outcomes for large AVM's, the role of embolization, retreatment of AVM's, a definition of subtotal obliteration and its prognosis, and the delayed changes (e.g. cyst formation and neoplasia) that may follow radiosurgery.

For pituitary adenomas, we will highlight the challenges of retreatment and treatment when there is no discernible lesion on MRI. We will outline the timing for endocrinological remission and the small chance of recurrence despite an initial remission. The potential complications (e.g. delayed hypopituitarism, visual dysfunction, secondary tumors, and stroke) associated with Gamma Knife surgery for pituitary adenomas will also be detailed. The importance of creating an appropriate distance between the tumor and optic pathways prior to Gamma surgery and methods for achieving this will be discussed.

With regard to meningiomas, we will go beyond the standard cases to discuss treatment of large meningiomas by targeting the tumor's nutritive vessels. For acoustic neuromas, particular emphasis will be placed upon the differences in planning and outcomes of large and small lesions. Also, we will discuss the notion of hearing preservation in Gamma Knife surgery.

The course will also offer much "hands on" training. We will schedule cases relevant to the particular topics being covered on each day. Each day will begin with stereotactic frame placement performed in the operating room. The advantages of frame placement under monitored anesthesia will be discussed. Participants will observe frame placement in the operating room.

In order to offer a diverse and well rounded course, we have invited others to speak about the history and future of radiosurgery and the complimentary roles of radiosurgery and microsurgery.

In sum, we believe the course outlined below will represent a course unlike that offered by other institutions. It will hopefully help allow us to share a different philosophy and a set of techniques not covered in other courses or written about in the literature.

### Accreditation

The University of Virginia School of Medicine is accredited by the AC-CME to provide continuing medical education for physicians.

The University of Virginia School of Medicine designates this continuing medical education activity for up to 26 hours in category 1 credit towards the AMA Physician's Recognition Award. Each physician should claim only those hours of credit that he/she actually spent in the educational activity.

The University of Virginia School of Medicine awards 0.1 CEU (Continuing Education Unit) per contact hour to each non-physician participant who successfully completes this educational activity. The CEU is a nationally recognized unit of measure for continuing education and training activities that meet specific educational training requirements. The University of Virginia School of Medicine maintains a permanent record of participants who have been awarded CEUs.

The American Association of Neurological Surgeons attests that this educational activity has been recognized for endorsement for 26.0 Category 1 CME credits of the American Association of Neurological Surgeon's Continuing Education Award in Neurosurgery.

### Faculty Lecturers

#### Vinko V. Dolenc, MD, PhD

Department of Neurosurgery  
University of Ljubljana, Slovenia  
University of Virginia

#### John Jane, Jr., MD

Department of Neurosurgery  
University of Virginia

#### Mary E. Jensen, MD

Department of Radiology  
University of Virginia

#### Neal F. Kassell, MD

Department of Neurosurgery  
University of Virginia

#### Edward Nemergut, MD

Department of Anesthesiology  
University of Virginia

#### Steven A. Newman, MD

Director of the Division of Neuro-ophthalmology  
Department of Ophthalmology  
University of Virginia

#### Edward Oldfield, MD

Professor of Neurosurgery  
University of Virginia

#### C. Douglas Phillips, MD

Director of the Division of Neuro-radiology  
University of Virginia

#### Mark Quigg, MD

Department of Neurology  
University of Virginia

#### Tyvin A. Rich, MD

Department of Radiation Oncology  
University of Virginia

#### David Schlesinger, PhD

Lars Leksell Gamma Knife Center  
University of Virginia

#### Jason P. Sheehan MD, PhD

Associate Director of the Lars Leksell Gamma Knife Center  
University of Virginia

#### Ladislau Steiner MD, Ph.D

Director of the Lars Leksell Gamma Knife Center  
University of Virginia

#### Michael Thorner, DSc, FACP

Division of Endocrinology and Metabolism  
University of Virginia

#### Mary L. Vance, MD

Division of Endocrinology and Metabolism  
University of Virginia

#### Chun-Po Yen, MD

Department of Neurosurgery  
University of Virginia

#### Carlos Carbini

Lars Leksell Gamma Knife Center  
University of Virginia



## Area Information

### Meals and Lodging

Breakfast, lunch, and refreshments will be served each day. Dinner will be served October 22nd and 23rd. Transportation is provided to and from the lodging, symposium location and social events. For more information about lodging, see the contact information below.

#### Hampton Inn and Suites - \$111 (+ tax) ea. night

900 West Main St.

phone: (434) 923-8600 fax: (434) 923-8601

#### Boar's Head Inn - \$199 (+ tax) Tues-Thurs; \$259 Friday

Route 250 West

phone: (434) 296-2181 fax: (434) 972-6021

email: reserve@boarsheadinn.com

#### Courtyard by Marriott - \$99 (+ tax) Tues- Thurs; \$169 (+tax) Friday

1201 West Main St.

phone: (434) 977-1144 (434) 245-0978

### Charlottesville

Charlottesville is home to the University of Virginia, the birthplace of Thomas Jefferson, and a true representative of the heartland of historic Virginia. Located in central Virginia in the foothills of the Blue Ridge Mountains, Charlottesville has a population of 42,000 in a rural/metropolitan area of about 88,400. Washington, D.C. is less than two hours away, but there are many things to see and do here in town.

### Jefferson's Academical Village- University of Virginia

The University of Virginia is famed for the beauty of its buildings. Designed by Thomas Jefferson, they are considered among the finest examples of classic American architecture. The University is also noted for its scholarly achievements and historical associations. It began with Jefferson's concept and design for a community of scholars, and "academical village." The Rotunda, modeled after the Roman Pantheon, served as focal point, library and classroom. Two ranges extended from the Rotunda; professors lived and taught in the large Pavilions, and students lived in the smaller rooms in between. This tradition is carried on today – the Department of Neurological Surgery holds its teaching conferences in Pavilion V regularly.

### University of Virginia Health System

The University of Virginia Health System can trace its beginnings directly to Thomas Jefferson, under whose leadership as Rector, eight schools including a School of Anatomy and Medicine opened on March 7, 1825. Jefferson chose the school's original faculty, a single professor, Robley Dunglison, whose first class of 20 students met in his home on the Grounds.

Walter Reed is among the alumni of the Medical School. The teaching hospital, which opened in 1901 as a 25-bed facility, is today housed in a new eight-story building with 597 beds and 30 bassinets. It has nearly 100 intensive care beds. A recent report by U.S. News and World Report listed the Neurosciences clinical program at UVA as among the best in the nation.

### Monticello

Thomas Jefferson began construction on this architectural masterpiece in 1769 and continued for more than 40 years. He also designed the grounds of his "little mountain home." The roundabout walks, oval flowerbeds, vegetable gardens, vineyards, grove, and graveyard have been fully restored. Hours 8-5. Fee. (434) 984-9800.

### Michie Tavern Museum

This famous tavern of the 1700's still serves meals in the "Ordinary", a converted log cabin used 200 years ago. Guests enjoy food of the colonial times and can tour the Tavern, outbuildings, general store, and Meadow Run Grist Mill. The general store sells handcrafts and antiques of Virginia. Open year-round. Fee. (434) 977-1234.

### Ash Lawn

Home of President James Monroe, Ash Lawn is a 550-acre historic estate and has been almost fully restored as a working plantation. Special events at Ash Lawn include operas, concerts, and festivals. Hours: 9-6. Fee. (434) 293-9539.

### Wineries

There are many local wineries that offer tours, wine tastings and sales. Ask us for further information.

### Skyline Drive/Blue Ridge Parkway

Enjoy the beauty of the Blue Ridge Mountains, scenic overlooks, exhibits, and hiking trails. Located 25 miles west of Charlottesville with easy access via I-64.

For more information about Charlottesville and its surrounding area, visit: <http://www.charlottesville.org/> and <http://www.charlottesville-tourism.org/>

## Other Information

### Disclosure of faculty financial affiliations

As a provider accredited by the Accreditation Council for Continuing Medical Education, the Office of Continuing Medical Education of the University of Virginia School of Medicine must insure balance, independence, objectivity and scientific rigor in

all its individually sponsored or jointly sponsored educational activities. All faculty participating in a sponsored activity are expected to disclose to the activity audience any significant financial interest or other relationship (1) with the manufacturer(s) of any commercial product(s) and/or provider(s) of commercial services discussed in an educational presentation and (2) with any commercial supporters of the activity (significant financial interest or other relationship can include such things as grants or research support, employee, consultant, major stock holder, member of speakers bureau, etc.). The intent of this disclosure is not to prevent a speaker with a significant financial or other relationship from making a presentation, but rather to provide listeners with information on which they can make their own judgments. It remains for the audience to determine whether the speaker's interests or relationships may influence the presentation with regard to exposition or conclusion.

### Disclosure of discussion of non-FDA approved uses for pharmaceutical products and/or medical devices

The University of Virginia School of Medicine, as an ACCME provider, requires that all faculty presenters identify and disclose any "off label" uses for pharmaceutical and medical devices/products. The University of Virginia School of Medicine recommends that each physician fully review all the available data on new products or procedures to instituting them with patients.

### Disclosure for attendance records and certificate distribution

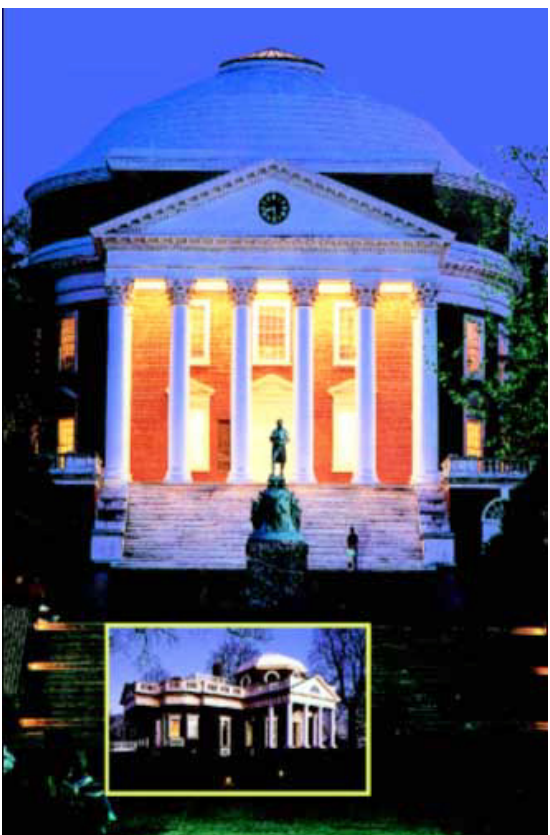
The University of Virginia Office of Continuing Medical Education requires that all participants sign attendance sheets daily to confirm participation in the CME activity for that day. Certificates of attendance, designating the maximum number of hours of participation, are distributed to each participant at the CME activity. Replacement certificates can be obtained from the Office of Continuing Medical Education by submitting a request for a replacement certificate accompanied by the \$10 fee.

### Special Needs

The Americans with Disabilities Act of 1992 requires that all individuals, regardless of their disabilities, have equal access. The Office of Continuing Medical Education of the University of Virginia School of Medicine is pleased to assist participants with special needs. **Requests need to be made in writing and sent to the Office of Continuing Medical Education, Box 800711, 6202 Hospital West, University of Virginia School of Medicine, Charlottesville, VA 22908-0711.**

# Advanced Gamma Knife Course at the University of Virginia

October 22-24, 2008



**Department of Neurological Surgery  
University of Virginia, Charlottesville, VA**

Sponsored by:  
The Office of Continuing Medical Education  
University of Virginia, Charlottesville, VA

Please mail this registration form and payment to:

**UVA Dept. of Neurosurgery**  
PO Box 800212  
Atn: Sophie Lee Yu, Conference Coordinator  
Charlottesville, VA 22908 USA  
Phone: 434-924-2336  
Fax: 434-977-6279  
E-mail: [sly9p@virginia.edu](mailto:sly9p@virginia.edu)

\_\_\_\_ Last Name      First Name      Initial      Degrees

\_\_\_\_ Department and Institution

\_\_\_\_ Mailing Address

\_\_\_\_ Work Phone      Fax      E-mail

\_\_\_\_ Date of Birth (required for tracking CME credits/CEU)

\_\_\_\_ Special needs (sight impaired, wheelchair, etc.):

Registration fee includes program, lunch, and dinner as described in the program. Make checks payable on a U.S. bank only to the UVA Dept. of Neurosurgery. Registration will not be accepted without tuition payment. Cancellations must be made two weeks prior to the start of the course; otherwise the tuition will count towards a future training course.

\_\_\_\_  Check Enclosed  
\_\_\_\_  Dept. check to follow

**Credit Card registration:**

\_\_\_\_ VISA      \_\_\_\_\_ Master card  
Account no. \_\_\_\_\_  
Expiration Date \_\_\_\_\_  
Signature \_\_\_\_\_

Check all that apply:

\_\_\_\_  Physicians Course \$ 3,000      \_\_\_\_\_ Nurse - \$2,000  
\_\_\_\_  Spouse / Guest (for all social events) \$200  
Attending social functions on \_\_\_\_\_ Wed \_\_\_\_\_ Thurs

Please indicate to us your background:

Neurosurgeon      \_\_\_\_\_  
Radiation Oncologist      \_\_\_\_\_  
Medical Physicist      \_\_\_\_\_  
Other (Please describe)      \_\_\_\_\_

You May Also Register online at:

[www.healthsystem.virginia.edu/internet/neurosurgery/GKcourse](http://www.healthsystem.virginia.edu/internet/neurosurgery/GKcourse)

Registrations will not be processed unless full payment is received.

Please Describe your Experience with Gamma Knife:

None \_\_\_\_\_  
Rare (Less than 4 times a Year) \_\_\_\_\_  
Quarterly \_\_\_\_\_  
Monthly \_\_\_\_\_  
Weekly \_\_\_\_\_