



## **Mayfield Winter Neurosurgical Symposium**

### **“ADVANCES IN CLINICAL NEUROSURGERY, 1994”**

**February 27-March 4, 1994  
Snowmass Conference Center  
Snowmass, Colorado**

As an organization for continuing medical education, The Christ Hospital certifies that this CME activity meets the criteria for 25 hours credit in category I.



**MAYFIELD**  
NEUROLOGICAL INSTITUTE INC.

Associated With  
University of Cincinnati Department of Neurosurgery

**Presented by  
Mayfield Neurological Institute  
University of Cincinnati Medical Center Department of Neurosurgery  
University of Cincinnati Hospital  
Good Samaritan Hospital, The Christ Hospital,  
and Children's Hospital Medical Center  
Cincinnati, Ohio**



## Mayfield Winter Neurosurgical Symposium “ADVANCES IN CLINICAL NEUROSURGERY, 1994”

The Mayfield Neurological Institute and the University of Cincinnati Department of Neurosurgery invite you to attend one of neuroscience's most exciting neurosurgical symposiums in the beautiful mountains of Colorado. This year's event, Advances in Clinical Neurosurgery, 1994, covers a wide range of topics, including: neurovascular disorders, skull base surgery, solutions for spinal disorders, stereotactic-endoscopic surgery, and much more.

As in previous years, each day of the program is divided into morning and evening sessions, leaving mid-day sessions open for skiing and enjoying the beautiful scenery of Snowmass Mountain, one of Colorado's highest peaks.

### **Course Directors**

Thomas S. Berger, M.D.

Jeffrey T. Keller, Ph.D.

John M. Tew, Jr., M.D.

William D. Tobler, M.D.

## PROGRAM

February 27-March 4, 1994

### SUNDAY, FEBRUARY 27

Opening Reception

### MONDAY, FEBRUARY 28

#### VASCULAR SURGERY

- 6:30-6:35 a.m. **Welcome**
- 6:35-7:00 a.m. **Videotape Presentation: Vascular Surgery**
- 7:00-7:30 a.m. **Microsurgical Anatomy of the Intracranial Portion of the Internal Carotid Artery**  
Jeffrey T. Keller, Ph.D.
- 7:30-8:15 a.m. **Neuroendovascular Treatment of Aneurysms and AVMs**  
Thomas Tomsick, M.D.
- 8:15-9:00 a.m. **Aneurysms of the Basilar Artery**  
Robert Spetzler, M.D.
- 4:00-4:45 p.m. **Surgical Approaches to Deep AVMs of the Brain**  
Roberto Heros, M.D.
- 4:45-5:30 p.m. **Complex AVMs of the Posterior Fossa**  
Robert Spetzler, M.D.
- 5:30-6:30 p.m. **Panel Discussion: Multistrategy approaches to the Treatment of Aneurysms and AVMs**  
Moderator: John M. Tew, Jr., M.D.  
Panel: Roberto Heros, M.D., Robert Spetzler, M.D., Thomas Tomsick, M.D.
- 6:30-7:00 p.m. **Anesthetic Considerations for Neurovascular Surgery**  
Peter Ernst, M.D.

### TUESDAY, MARCH 1

#### STEREOTACTIC SURGERY

- 6:30-7:00 a.m. **Videotape Presentation: Stereotactic Surgery**
- 7:00-7:30 a.m. **Current Concepts of Radiosurgery in 1994**  
William Tobler, M.D.
- 7:30-8:15 a.m. **Role of Surgery and Radiosurgery for Benign Cavernous Sinus Tumors**  
Harry van Loveren, M.D.
- 8:15-9:00 a.m. **Supratentorial Ventricular Tumors**  
Wolfgang Koos, M.D.
- 4:00-6:00 p.m. **Multimodality Imaging in Stereotactic Surgery**  
**PART I-Imaging Techniques: CT, PET, MRI, MRA, and image fusion**  
William D. Tobler, M.D.

## PROGRAM

### **PART II-The Role of Neuronavigational Devices; Frameless Stereotaxis**

John M. Tew, Jr., M.D., William D. Tobler, M.D.

#### **Panel Discussion**

Moderator: William D. Tobler, M.D.

Panel: Wolfgang Koos, M.D., Robert Spetzler, M.D.,  
Harry van Loveren, M.D., John M. Tew, Jr., M.D.

6:00-6:30 p.m.

#### **Open Presentation**

7:00 p.m.

#### **Banquet**

### **WEDNESDAY, MARCH 2**

#### **SKULL BASE SURGERY**

6:30-7:00 a.m.

#### **Videotape Presentation: Skull Base Techniques**

7:00-7:45 a.m.

#### **Advanced Imaging Techniques in Skull Base Lesions**

Thomas Tomsick, M.D.

7:45-8:45 a.m.

#### **Middle Fossa Lesions**

Harry van Loveren, M.D.; Jeffrey T. Keller, Ph.D.

8:45-9:00 a.m.

#### **Consultant's Corner: Skull Base Lesions**

4:00-5:00 p.m.

#### **Approaches to Meningiomas of the Posterior Fossa**

Wolfgang Koos, M.D.

5:00-6:00 p.m.

#### **Combined Approaches to Lesions of the Clivus**

Robert Spetzler, M.D.

6:00-6:30 p.m.

#### **Panel Discussion: Controversies in Skull Base Surgery**

Moderator: Harry van Loveren, M.D.

Panel: John M. Tew, Jr., M.D., Wolfgang Koos, M.D.,  
Alan Crockard, M.D.FRCs, Robert Spetzler, M.D.

### **THURSDAY, MARCH 3**

#### **TUMOR AND TRIGEMINAL NEURALGIA**

6:30-7:00 a.m.

#### **Videotape Presentation: Neuro-Oncology**

7:00-7:45 a.m.

#### **Astrocytomas in Children**

Thomas Berger, M.D.

7:45-8:30 a.m.

#### **When is a Chordoma not a Chordoma?—Implications for Treatment and Prognosis**

Alan Crockard, FRCS

8:30-9:00 a.m.

#### **Open Presentation**

4:00-4:45 p.m.

#### **Trigeminovascular System: Neuroanatomical Basis and Mechanism of Vascular Headache**

Jeffrey T. Keller, Ph.D.

4:45-5:30 p.m.

#### **Balloon Compression and Glycerol Injection for Trigeminal Neuralgia—Alternative Treatments**

Jeffrey Brown, M.D.

## PROGRAM

- 5:30-6:00 p.m. **Trigeminal Neuralgia-Perspectives in Treatment  
—A 25 Year Experience**  
John M. Tew, Jr., M.D.
- 6:00-6:30 p.m. **Panel Discussion: Options for Treatment of  
Trigeminal Neuralgia**  
Moderator: Jeffrey T. Keller, Ph.D.  
Panel: John M. Tew, Jr., M.D.; Jeffrey Brown, M.D.;  
Wolfgang Koos, M.D.

### FRIDAY, MARCH 4

#### SPINE SURGERY

- 6:30-7:00 a.m. **Videotape Presentation**
- 7:00-7:30 a.m. **Management of Peripheral Nerve Injuries**  
Thomas Berger, M.D.
- 7:30-8:15 a.m. **Advanced Imaging of Degenerative and Traumatic  
Cervical Spine Disease**  
Thomas Tomsick, M.D.
- 8:15-9:00 a.m. **Radical 360 Surgery for Spinal Deformity and Tumor**  
Alan Crockard, FRCS
- 4:00-5:00 p.m. **Approaches to Degenerative Lesions of the Spine:  
Cervical Spine—** John M. Tew, Jr., M.D.  
**Thoracic Spine—** Harry van Loveren, M.D.
- 5:00-5:45 p.m. **Methods of Cervical Spine Stabilization**  
Alan Crockard, FRCS
- 5:45-6:30 p.m. **Panel Discussion: Controversies in Cervical Spine Surgery**  
Moderator: Harry van Loveren, M.D.  
Panel: Alan Crockard, FRCS; Robert Spetzler, M.D.;  
John M. Tew, Jr., M.D.; William Tobler, M.D.
- 6:30 p.m. **Closing Remarks**

#### OBJECTIVE

- This symposium has been designed to provide participants with the opportunity to enhance their knowledge and provide a thorough understanding of:
- surgical anatomy and treatment of lesions of the posterior fossa, clivus and internal carotid artery
  - multistrategic approaches to treatment of AVMs and aneurysms
  - the role of stereotaxis and radiosurgery in neurosurgery
  - advances in the treatment of skull base lesions
  - treatment options for trigeminal neuralgia
  - managing peripheral nerve injuries
  - methods and indications for treatment of lesions of cervical spine

*For convenience, this insert may be separated from the Mayfield brochure.*

**SIMULTANEOUS MIDAS REX HANDS-ON WORKSHOP:** At the request of the Mayfield Winter Neurosurgical Symposium, this Midas Rex Hands-On Workshop has been scheduled which overlaps some of the Symposium. Enrollees in the Midas Rex Hands-On Workshop should follow the schedule of the Midas Rex workshop; they may attend the Neurosurgical Symposium at those times when there is no conflict with the Midas Rex Workshop schedule.

The Department of Neurosurgery at the  
University of Cincinnati Medical Center,  
Mayfield Neurological Institute,  
The Christ and Good Samaritan Hospitals

and

MIDAS REX Institute

present

**A NEUROSURGICAL SYMPOSIUM  
and HANDS-ON WORKSHOP:**

**"Modern Dissection Techniques of Bone,  
Biometals, Bioceramics, and Bioplastics"**

For Neurosurgeons, Plastic, Craniofacial,  
Maxillofacial, and Otolaryngological Surgeons

**February 28-March 1-2, 1994**

Monday, Tuesday, Wednesday

**Snowmass Conference Center  
Snowmass Village, CO**

**GUEST FACULTY\*:**

JOHN M. TEW, JR., M.D.

WILLIAM D. TOBLER, M.D.

THOMAS S. BERGER, M.D.

ROBERT F. SPETZLER, M.D.

JEFFREY BROWN, M.D.

WOLFGANG TH. KOOS, M.D.

ALAN CROCKARD, FRCS

HARRY VAN LOVEREN, M.D.

\*Surgeon titles and affiliations are listed on pages 6 and 7.

**Snowmass**



# MIDAS REX® HAND

## Modern Dissection Techniques of Bone, E

### SYMPOSIUM OBJECTIVES

- I. Surgeons will explore current concepts in neurosurgery and craniofacial and related boneworking through lectures, conferences, and clinical procedures on video. OR personnel will participate in the same activities.
- II. Surgeons will participate in hands-on workshops with advanced pneumatic instrumentation so their boneworking problems will be refined, expedited, and facilitated. OR personnel will participate in hands-on workshops as well as give particular attention to equipment care and maintenance, so that when OR personnel have completed the course, they will have improved competence in OR support.
- III. Surgeons who have completed the symposium should be able to apply immediately their amplified skills in the operating room to do their bonework *per se* in the time delineated\*:

**CRANIUM\*:** Osteoplastic temporal flap, 1 1/2 min. • Posterior craniectomy, 45-60 sec. • Osteoplastic posterior craniotomy, 1-2 min. • Free temporal flap, 1 min. • Burr hole, 1-3 sec. • Hemicraniotomy, 2 min. • Bilateral frontal flap, 3 1/2 min. • Two osteoplastic subdural buttons, 2 min. • Work about the clivus • Traction anchors • Cranioplasty.

**CRANIOFACIAL, MAXILLOFACIAL\*:** Frontal • Maxillectomy • Zygomectomy • Orbital • Supra orbit • Infra orbit • LeForte I, II, III osteotomies and craniofacial remodeling • mandibular resection • Mandibular osteotomy • Mandibular reduction • Facial fractures • Suture holes.

**OTOLOGY\*:** Mastoidectomy, 1-4 min. • Translabyrinthine acoustic neuroma, 30 min. • Orbital fossa dissection • Ossicular reconstruction • Cochlear implant bed • Facial nerve decompression • Canalplasty • Labyrinthectomy.

**BIOPLASTICS\*:** Methylmethacrylate - dissect, excise, shape • Polyethylene - abrade *in situ*, dissect *in situ*, transect *in situ*, shape.

**BIOMETALS (Superalloys, Titanium alloys, Stainless steels)\*:** Transect and shape in OR, 1-6 min.; *in situ*, 1-6 min.

**SPINE\*:** 4-Place laminectomy, 6-7 min. • Anterior cervical fusion with osteophyte removal, bone graft, 3-4 min. • Posterolateral fusions • Posterior interbody fusions • Foraminotomies, 30 sec. • Osteophyte removals, 30 sec. • Harrington rod removals • Harrington rod transection *in situ*, 2 min. • Fusions - posterior and anterior • Disc and nerve root problems • Unroofing nerves • Taking down old fusions, 1-8 min.

• Plastic, Craniofacial, Maxillofacial, and Otolaryngological problems may be explored at this time according to the individual wishes of the surgeons.

*\*Procedural times refer to the actual time of running the instrument.  
Surgeons will be furnished sufficient materials for any special procedure they may envision.*

# HANDS-ON WORKSHOP

Biometals, Bioceramics, and Bioplastics

NEURO COURSE SCHEDULE			
	Monday, February 28	Tuesday, March 1	Wednesday, March 2
6:30 a.m.	Complimentary continental breakfast	Complimentary continental breakfast	Complimentary continental breakfast
7:00 a.m.	Hands-On Workshop I*	Hands-On Workshop III*	Hands-On Workshop V*
9:30 a.m.	Refreshments	Refreshments	Refreshments
9:45 a.m.	Hands-On Workshop II*	Hands-On Workshop IV*	Hands-On Workshop VI*
1:00 p.m.	Adjourn for afternoon	Adjourn until Dinner Discussion - 7:00 p.m.	Adjourn for afternoon

\* Workshops are intensive and sequential and no part may be omitted.

**JOINT FEE/SEPARATE ENROLLMENTS:** For those who enroll in the Midas Rex Hands-On Workshop, there is no additional fee for participation in the Mayfield Symposium. A separate enrollment form must be sent to each course. Enclose the Midas Rex course fee with that enrollment; indicate on the Mayfield Neurosurgical Symposium enrollment blank that you are enrolling in the Midas Rex Hands-On Workshop.

## SYMPOSIUM FORMAT

The Midas Rex Hands-On Workshops emphasize a series of structured exercises, utilizing appropriate animal bones, bioplastics, bioceramics, biometals, mock-ups, and skeletal bone, including actual temporal bone dissection. Advanced dissection skills are thoroughly examined and explored with advanced pneumatic instrumentation. Because the workshops are intensive and sequential, no portion should be omitted.

**CONFERENCES:** Enrollees are invited to bring x-rays and/or other reference to problem cases on which they wish conference or discussion.

**LECTURES:** Distinguished faculty lecturers will make formal presentations and hold discussions on aspects of neurosurgery.

**CLINICAL PROCEDURES:** Video tapes of a variety of clinical procedures, presenting techniques of unusual and current interest, will be available for viewing and discussion.

**COURSE DINNER DISCUSSION:** A complimentary dinner discussion for faculty, enrollees and their guests will be held on Tuesday, March 1, at 7:00 p.m.

**ACCOMMODATIONS:** Silvertree Hotel; 100 Elbert Lane, Snowmass Village, CO 81615; 303-923-3520. Reservations 800-525-9402.

**ENROLLMENT:** Enrollment is limited. Please call to reserve space before sending check or arranging travel plans. All enrollments should be made through the MIDAS REX office in Fort Worth. Phone: 800-433-7639 or 817-831-2604. FAX 817-834-4835.

*Join the more than 13,000 enrollees  
who have completed MIDAS REX Hands-On Workshops.*



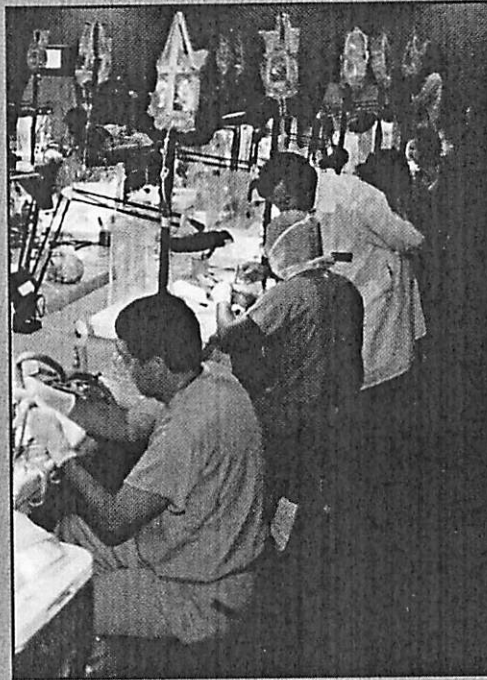
## MIDAS REX Faculty

Director of Education  
Susan Mitchell, Ed.D.  
Hospital Consultant  
Dolph Compere, M.D.  
Neurosurgical Consultant  
William W. McKinney, M.D.  
Surgical Consultant  
Andrievs Dzenitis, M.D.

Educational Consultants  
Robert Bullard, Ph.D.  
Richard Coup, Ed.D.  
James DeBoer, Ph.D.  
James Dukelow, Ph.D.  
Steven Grubbs, D.V.M.  
Craig Halverson, J.D.  
Norman McDaniel, Ph.D.  
Glen Mitchell, Ph.D.  
Jane Mitchell, Ph.D.  
Robert Murray, Ph.D.  
Carole Schleenvoigt, Ph.D.  
Terry Sensenbaugh, Ph.D.  
Lee Sobania, Ph.D.  
Jim Stretch, Ph.D.  
Ray Umber, Ph.D.  
Michael Vail, Ph.D.

## Snowmass, CO

A NEUROSURGICAL SYMPOSIUM  
and HANDS-ON WORKSHOP  
February 28-March 1-2, 1994



The course schedule is designed to allow afternoons free to attend the Mayfield Neurosurgical Symposium or for skiing and sightseeing.

### MIDAS REX Institute

3000 Race St. • Fort Worth, TX 76111 • Telephone 800-433-7639 or 817-831-2604 • FAX: 817-834-4835

**ENROLLMENT IS LIMITED. PLEASE CALL TO RESERVE SPACE BEFORE SENDING CHECK OR MAKING TRAVEL PLANS.** If you have reserved space, you may use this form or a letter to transmit your check made to MIDAS REX Institute.

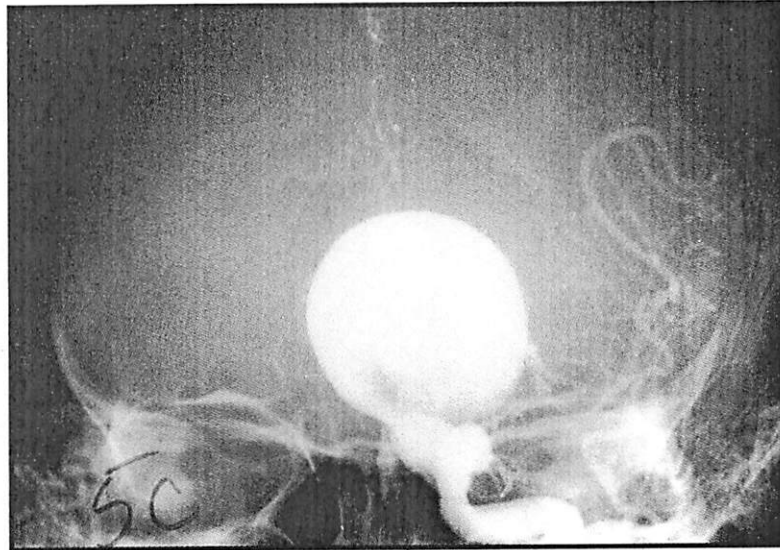
NAME \_\_\_\_\_ PHONE \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
CITY \_\_\_\_\_ STATE/COUNTRY \_\_\_\_\_ ZIP \_\_\_\_\_

My check made to MIDAS REX Institute is for February 28-March 1-2, 1994 in Snowmass, CO. (Neuro)

Surgeon Fee: U.S. \$965.00\*; Fellow/Resident Fee: U.S. \$585.00\* (with cover letter from department chairman); Operating Room Personnel (RN/SCT/PA/Other) Fee: U.S. \$250.00\*

\*Fee is for consumable equipment, animal bone mock-ups, skeletal materials, gas, etc. Additional cost is underwritten by MIDAS REX Institute. I understand that cancellation three weeks prior to a course will carry full refund; after that time a small portion of my fee will be retained: (Surgeon - U.S. \$150.00; Resident - U.S. \$100.00; OR Personnel - U.S. \$50.00).

## INFORMATION



### DATES

February 27-March 4, 1994

### TIME

6:30-9:00 a.m. and 4:00-6:30 p.m. daily. The mid-day break is provided to allow ample time for skiing and enjoying other recreational activities at Snowmass.

### ACCREDITATION

As an organization for continuing medical education, The Christ Hospital certifies that this CME activity meets the criteria for 25 credit hours in Category I.

### ACCOMMODATIONS/HOTEL RESERVATIONS

The Silvertree Hotel, which is adjacent to the conference center, is holding a small number of rooms. Reservations may be made by calling 800-525-9404; cut-off date for room reservations is January 4, 1994. A wide variety of housing options are available in Snowmass. Further information may be obtained by calling 1-800-598-2004.

### TUITION

\$700.00 payable with pre-registration. A cancellation fee will be charged for withdrawals after February 14, 1994. All foreign payments must be made by a draft on a U.S. bank. Tuition includes opening cocktail party, continental breakfast daily, and banquet for registrants.

### DISCOUNT AIRFARES

Special discount airfares have been arranged with Delta Airlines by our official travel agency, Community Travel. Call Debbie Foss of Community Travel collect at (606) 441-7994. Hours of operation are 9:00 a.m. - 5:00 p.m. EST.

## FACULTY

**Thomas S. Berger, M.D.**

Professor of Clinical Neurosurgery  
University of Cincinnati Medical Center  
Mayfield Neurological Institute  
Cincinnati, Ohio

**Jeffrey Brown, M.D.**

Chairman and Associate Professor  
Department of Neurological Surgery  
Medical College of Ohio  
Toledo, Ohio

**Alan Crockard, FRCS**

Consultant Neurosurgeon  
The Department of Surgical Neurology  
The National Hospital for Neurology and  
Neurosurgery  
London, England

**Peter Ernst, M.D.**

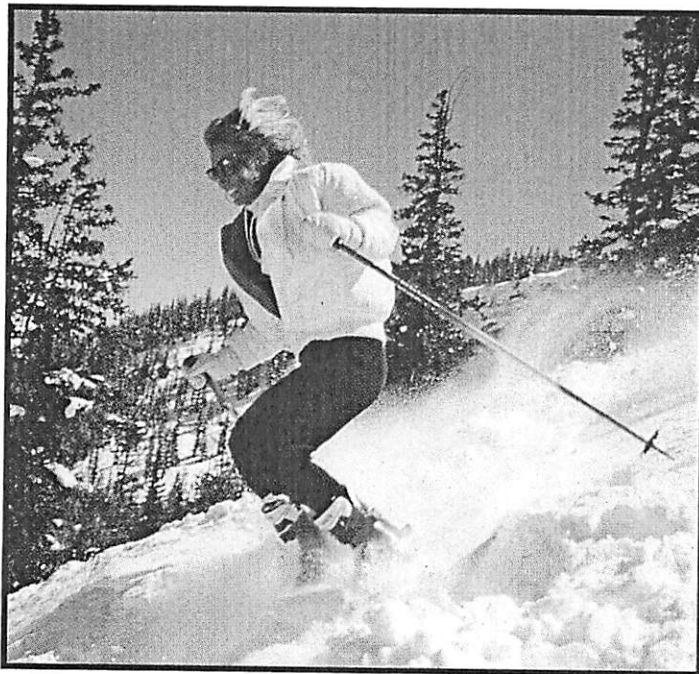
Assistant Professor, Clinical  
Anesthesiology  
University of Cincinnati Medical Center  
Cincinnati, Ohio

**Roberto C. Heros, M.D.**

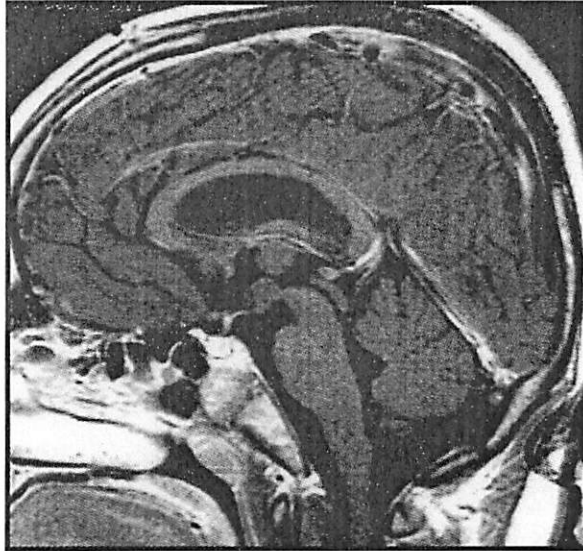
Lyle A. French Professor of  
Neurosurgery  
University of Minnesota Health Center  
Minneapolis, Minnesota

**Jeffrey T. Keller, Ph.D.**

Research Professor of Neurosurgery  
University of Cincinnati Medical Center  
Mayfield Neurological Institute  
Cincinnati, Ohio



## FACULTY



**Wolfgang Th. Koos, M.D.**

Professor and Chairman  
Department of Neurosurgery  
University of Vienna, Medical School  
Vienna, Austria

**Robert F. Spetzler, M.D.**

Director, Barrow Neurological Institute  
Chairman, Division of Neurological  
Surgery  
Professor, Section of Neurological Surgery  
University of Arizona Medical Center  
Phoenix, Arizona

**John M. Tew, Jr., M.D.**

Professor and Chairman of Neurosurgery  
University of Cincinnati Medical Center  
Mayfield Neurological Institute  
Cincinnati, Ohio

**William D. Tobler, M.D.**

Assistant Professor of Neurosurgery  
University of Cincinnati Medical Center  
Mayfield Neurological Institute  
Cincinnati, Ohio

**Thomas A. Tomsick, M.D.**

Professor of Radiology and Neurosurgery  
University of Cincinnati Medical Center  
Cincinnati, Ohio

**Harry R. van Loveren, M.D.**

Associate Professor of Neurosurgery  
University of Cincinnati Medical Center  
Mayfield Neurological Institute  
Cincinnati, Ohio

## INFORMATION

For further information write or phone: Sheila Stuckey, Coordinator,  
Mayfield Neurological Institute, 506 Oak St., Cincinnati, Ohio 45219.  
Phone 800-325-7787, ext. 251; fax 513-569-5365.

## SPECIAL NOTE

**SIMULTANEOUS MIDAS REX HANDS-ON WORKSHOP:** At the request of the Mayfield Winter Neurosurgical Symposium, A Midas Rex Hands-on Workshop has been scheduled which overlaps some of the Symposium. Enrollees in the Midas Rex Hands-on Workshop should meet the schedule of that workshop; they may attend the Neurosurgical Symposium at those times when there is no conflict with the Midas Rex Workshop schedule.



## REGISTRATION FORM

### February 27-March 4, 1994 Snowmass Conference Center Snowmass, Colorado

(please print)

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Telephone \_\_\_\_\_ FAX \_\_\_\_\_

Social Security Number \_\_\_\_\_

I will be submitting an abstract for the Open Presentations. (See form below.)

Registration Limited. Deadline- January 15, 1994.

TUITION: \$700

Make check payable to: NEUROSCIENCES FOUNDATION

Mail to: Sheila Stuckey, Coordinator  
Mayfield Neurological Institute, 506 Oak Street  
Cincinnati, Ohio 45219  
Phone: 1-800-325-7787 Fax: 513-569-5365

#### OFFICIAL ABSTRACT FORM

TITLE OF PAPER \_\_\_\_\_

\_\_\_\_\_

AUTHORS \_\_\_\_\_

\_\_\_\_\_

INSTITUTION \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY OR COUNTRY \_\_\_\_\_

Abstracts should be typed in English and should not exceed 300 words. Please attach your Abstract to this form and send with your registration to the address above.

Deadline to receive Abstracts: November 30, 1993.