

PRELIMINARY PROGRAM

CNS ANNUAL MEETING

OCTOBER 1-6, 1994

CHICAGO, ILLINOIS

*CNS  
'94*

*CHICAGO*



# Your Kind of Town, Chicago Is...

## PRESIDENT'S LETTER

The 44th Annual Meeting of the Congress of Neurological Surgeons will be held in Chicago, Illinois from October 1 through October 6, 1994. The Hyatt Regency Hotel will serve as convention headquarters as it did back in 1984. This year, however, with the growing size of our Annual Meeting, some necessary but exciting changes will take place. The scientific program and the exhibit area will be in the famous McCormick Place. The Arie Crown Theater at McCormick Place will provide comfortable theater seating for the scientific sessions and the massive exhibit area will allow ideal access to the medical equipment displays.



This year's Honored Guest is Dr. Robert Spetzler. Dr. Spetzler's innovative work in cerebrovascular and skull base surgery will provide an exciting focus for each scientific session.


Dr. Hunt Batjer is the Annual Meeting Chairman. He and Dr. Marc Mayberg, the Scientific Program Chairman, have formulated an innovative meeting with several new changes from our previous format. Breakfast seminars will replace the usual luncheon seminars to allow more time for neurosurgeons to visit the exhibit area. Two unique features in this year's program will be the use of 3-D in the General Scientific Sessions and breakthrough discoveries in

neurosurgery which will present new and important emerging data. The General Scientific Sessions are as follows: Emerging Health Care Issues in 1994, Controversies in Skull Base Surgery, Management of Cerebrovascular Malformations, and Management of Low Grade Gliomas. Following the Annual Meeting, a satellite conference on brain tumors sponsored by The Joint Section on Tumors has been scheduled. This will be held on October 6 in the afternoon and will carry over to October 7.

This great city in the heart of the Midwest offers an extensive variety of social and cultural activities for all to enjoy. To minimize travel, the opening reception will be held in the Hyatt Regency ballroom. There are also numerous opportunities close to the hotel, including world renowned shopping on Michigan Avenue and several of Chicago's well known museums. The Auxiliary Breakfast will feature best selling author, Judith Viorst. The warmth and hospitality of this majestic city will nicely compliment the entire social program, providing memorable experiences for the entire family.

Debbie and I hope that you will join us for this exciting meeting.

Sincerely,



Richard A. Roski  
President  
Congress of Neurological Surgeons

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# General Information

Welcome to the "Windy City" located in the heart of the Midwest! Set on the shores of Lake Michigan, Chicago offers a wide variety of landmarks with an unique architectural heritage. In addition, three of the world's tallest buildings - the Sears Tower, the John Hancock Building, and the Amoco Oil Building - are located here which add to Chicago's impressive skyline.

Chicago is known for it's rich diversity. With such distinctive neighborhoods as Hyde Park, Printer's Row, and Chinatown, this vibrant city offers a vast array of museums, historical landmarks and ethnic restaurants. Be sure to visit the Shedd Aquarium, the Field Museum of Natural History and the Adler Planetarium. And a trip to Michigan Avenue's Magnificent Mile for shopping at Water Tower Place should not be missed.

Discover all of the attractions that Chicago has to offer at the 1994 Congress of Neurological Surgeons Annual Meeting!

## 1994 HONORED GUEST

Robert F. Spetzler attended Knox College in Galesburg, Illinois from 1963 to 1967 and graduated cum laude with a Bachelor's of Science degree in Biology and Chemistry. Before graduating, he spent a year at the Free University of Berlin on a scholarship. In 1967, he entered medical school at Northwestern University, where he obtained his M.D. in 1971 and completed his internship in 1972.



In 1972 Dr. Spetzler moved to the University of California at San Francisco where he trained as a resident under Charles B. Wilson, Professor and Chairman, Department of Neurosurgery. It was there, under the expert tutelage of Dr. Wilson, that his interest in neurovascular surgery developed. His commit-

ment to academic neurosurgery also was established at this time. Before finishing his residency, he had already published 15 articles in refereed journals, on 8 of which he was first author; had helped edit two books; and had made almost 20 presentations at national and international meetings. During the last year of his residency, he was awarded a Trauma Fellowship from the National Institutes of Health (NIH). He also received the Annual Resident Award at the 27th Annual Meeting of the Congress of Neurological Surgeons.

After completing his residency in 1977, Dr. Spetzler joined the Department of Neurosurgery at Case Western Reserve University School of Medicine in Cleveland, Ohio as an Assistant Professor. In 1980 he received his first major grant from NIH, developing a baboon model of stroke that has since been particularly generative for testing new therapeutic treatments for stroke and cerebral ischemia. In 1981, he was promoted to an Associate Professor, holding that appointment until 1983. His commitment to clinical research during these years was rewarded with about 40 articles published in refereed journals and 16 book chapters.

In 1983 Dr. Spetzler was recruited by Dr. John R. Green to assume the J. N. Harber Chair of Neurological Surgery at the Barrow Neurological Institute (BNI) in Phoenix, Arizona. Two years later when Dr. Green retired, Dr. Spetzler assumed the position of Director of the Institute. Under Dr. Spetzler's leadership, the BNI has grown from primarily a regional center to an internationally recognized center of excellence that attracts both visiting health care professionals and patient referrals from around the world. The residency program has become one of the most highly sought programs because of the diversity of clinical experience and the emphasis on developing independent research projects.

Among just a few of Dr. Spetzler's contributions have been the development of theories on normal perfusion pressure breakthrough and how the size of arteriovenous malformations (AVMs) is related to their rupture; the development of a heuristic grading system



*Water Tower Pumping Station at Night. The Water Tower Pumping Station was built in 1869 to supply Chicago with drinking water pumped from Lake Michigan. It was one of the few buildings in Chicago to survive the Great Fire in 1871. After the fire, the station roof was burned away and the station was out of service for eight days. The Tower emerged unscathed. Currently the Water Tower is serving as a Visitor Information Center. It is located at the intersection of Michigan and Chicago Avenues.*

*Photo Courtesy of the Chicago Convention Bureau/Ron Schramm, Photographer.*



*Chicago is noted for its exciting and vibrant nightlife. The city offers a variety of comedy clubs, dance clubs, blues and jazz clubs as well as the nightlife along Rush and Division Street and Ontario St. from Michigan Ave. to the Kennedy Expressway or North Pier Terminal on Grand. Photo Courtesy of the Chicago Convention and Tourism Bureau/Ron Schramm, photographer.*

for AVMs; advances in the surgical treatment of complex cerebrovascular lesions based on hypothermia, barbiturates, and cardiac arrest; and the development of innovative surgical approaches for skull base surgery. In the last decade this work has been reflected in the 100 articles published in refereed journals; the 83 book chapters either published or in press; the establishment of the official journal of the BNI, the BNI Quarterly; and several books and neurosurgical atlases.

These accomplishments underscore the reasons Dr. Spetzler has been chosen as the Honored Guest of the Congress of Neurological Surgeons—the youngest member ever to receive this coveted honor.

## MISSION STATEMENT

The Congress of Neurological Surgeons exists for the purpose of promoting the public welfare through the advancement of neurosurgery, by a commitment to excellence in education and by dedication to research and scientific knowledge. The Congress of Neurological Surgeons maintains the vitality of our learned profession through the altruistic volunteer efforts of its members and the development of leadership in service to the public, to our colleagues in other disciplines, and to the special needs of our fellow neurosurgeons throughout the world and at every stage of their professional lives.

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*Join your friends at Sunday's  
Opening Reception and Wednesday's  
Annual Banquet!!  
Details on pages 33-36.*

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*Located on State Street, the Chicago Theatre's marquee is an informal symbol of the Windy City. Opened in 1921 for live entertainment and movies, the building has had a variety of tenants over the years. In 1975, the theatre was bought by Chicago Theater Restoration Associates and was renovated to its original splendor. The Chicago Theater reopened on September 10, 1986, with a gala performance by Frank Sinatra singing "My Kind of Town."*

*Photo Courtesy of the Chicago Convention Bureau/Ron Schramm, Photographer.*



# General Information *(continued)*

## MEETING PURPOSE

The purpose of the 1994 Annual Meeting of the Congress of Neurological Surgeons is to provide continuing medical education for practicing neurosurgeons, neurosurgical residents in training, post-graduate neurosurgical fellows, as well as allied health professionals such as nurses, physician's assistants, and clinical specialists in the form of didactic lectures, practical (hands-on) courses demonstrating neurosurgical techniques, small group sessions to provide in-depth coverage of selected topics, and posters to provide the latest information regarding clinical and laboratory advances in neurological surgery.

## CONTINUING MEDICAL EDUCATION

The Congress of Neurological Surgeons is accredited by the Accreditation Council for Continuing Medical Education to sponsor continuing medical education for physicians.

The Congress of Neurological Surgeons (CNS) designates this continuing medical education activity for 23.0 credit hours in Category I toward the Continuing Education Award in Neurosurgery and the Physician's Recognition Award of the American Medical Association. Participation in ticketed courses provides additional Category I credit as follows:

- Practical Courses 001-006: 8 hours
- Practical Courses 007-030: 4 hours
- Breakfast Seminars: 2.0 hours
- International Luncheon: 1.25 hours
- Resident/Honored Guest Luncheon: 1.25 hours



*Chicago is home to one of the finest conservatories in the world. Located in Lincoln Park, the Conservatory has hosted visitors since 1892. The magnificent collection of orchids, palms, and other hothouse plants are not limited to the greenhouse and 18 propagating houses. The park also boasts outdoors gardens, water lily ponds, and fountains. Many of the flowers in Chicago's parks are started here and distributed around the city.*

*Photo Courtesy of the Chicago Convention Bureau/Ron Schramm, Photographer.*

Practical Course 007, Success in Managed Care for Neurosurgeons, is given in conjunction with the American Medical Association. Attendees at this workshop will receive four credit hours in Category 1 of the Physician's Recognition Award of the AMA.

## REGISTRATION INFORMATION

Enclosed with this preliminary program are the following materials:

- Registration Form
- Housing Form
- Art Show Entry Form

Advance registration forms are preprinted with identification numbers, names and addresses. Use only your form when registering. DO NOT use another person's registration form, as our computers register by the preprinted information listed on the form.

If you did not receive a form or would like to request additional forms, please call (708) 692-9500; and our office will fax or mail a personalized registration form.

Complete the advance registration form in ink.

- If paying by check or money order, make payable in U.S. dollars to CNS and mail the complete form with your payment in the envelope provided. DO NOT FAX your registration form.
- If paying by credit card, fax the complete form to (708) 692-7729 and keep the originals for your files. DO NOT MAIL your registration form.

All registrants will receive a registration confirmation letter, confirming meeting registration and assignment to courses. Please allow three weeks for processing.

**PLEASE NOTE:** The deadline for advance registration is September 2. Because course capacities are limited, early registration is recommended. All attendees wishing to register after this date should register at the on-site registration desk at the meeting.

Registration will open at 2:00 p.m. on Saturday, October 1, at McCormick Place East, and will remain open until 7:00 p.m. On Sunday, registration will be open from 8:00 a.m. - 7:00 p.m. Registration will be open from 6:30 a.m. - 5:30 p.m. Monday, Tuesday and Wednesday.

All meeting registrants will receive a ticket to the Opening Reception.

With the Spouse/Guest registration, attendees will receive use of the Hospitality Suite, including daily continental breakfasts (admittance to the Hospitality Suite is by Spouse/Guest badge only). The registration fee also includes admittance to the Auxiliary

Education Seminar on Monday which is in conjunction with the General Scientific Session. Major trends in health care reform will be discussed which will be of interest to both medical registrants and their spouses.

Children, over the age of 12, may register as a guest at the Guest Registration Fee. This will allow full participation in the Auxiliary Program activities.

## REFUND POLICY

**Registration Fees:** A letter requesting cancellation of pre-registration must be received by the CNS Annual Meeting Office, 22 South Washington, Park Ridge, Illinois 60068, by September 2 in order to receive a full refund. Cancellation requests received after September 3 but before September 26 will be refunded less a \$75.00 processing fee. No refunds will be made if received in the CNS Annual Meeting Office after September 26. Cancellation may be telefaxed to 708/692-4225.

**Course and Event Tickets:** Course and Event tickets will be refunded in full until September 26. Because of facility guarantees, there can be no refund for tickets cancelled after September 26. There will be no on-site return or exchange of tickets for courses.

## SCIENTIFIC MEETING

All scientific meetings and exhibits will take place at the McCormick Place East with the exception of several practical courses which will be held at the Hyatt Regency Hotel on Sunday, October 2, 1994. Over 300 exhibits featuring the latest neurosurgical products, will be on view beginning Monday morning at 9:30 a.m.

## SOCIAL AND AUXILIARY ACTIVITIES

The blue skyline pages 33-36 of this brochure contain complete details of all planned social and Auxiliary activities. It is recommended that this information be shared with your spouse in order to register for all of the week's extensive programming. Tours and activities



*McCormick Place on-the-lake is the largest temporary exhibition facility in North America. The 1.6 million square feet of exhibit space is housed in three buildings: McCormick Place East, McCormick Place North and Donnelley Hall. Pictured here is an aerial view of McCormick Place East. Chicago hosts 17 of the 50 largest trade shows each year.*

*Photo Courtesy of the Chicago Convention Bureau/Ron Schramm, Photographer.*

have been selected to provide an opportunity to explore the Chicagoland area. Babysitting service references are available through the Concierge desk of the hotels.

## HOTEL RESERVATIONS

Please reference page 40. A housing form has been enclosed. If you will require housing, please complete this form and mail to the Hyatt Regency Chicago. An envelope has been provided in your registration packet.

## AIRLINE INFORMATION

Please reference page 40.

## SPEAKER READY ROOM

The Speaker Ready Room will be available Sunday-Wednesday from 7:00 a.m. - 5:00 p.m. at McCormick

## Important Dates

### **September 2, 1994**

Last day for receipt of Advance Registration applications at the CNS Annual Meeting Office.

Advance registration forms received after this date pay full price registration fees.

Registration cancellations received on or before this date will receive a full refund. Cancellation requests must be received by mail or fax (708/692-4225).

Deadline for housing reservations. The official CNS housing form must be used to ensure convention rates.

### **September 3 - 26, 1994**

Registration cancellations received between these dates will receive a refund less a \$75 service fee.

### **September 27, 1994**

Refunds of registration fees will not be allowed on or after this date.

### **October 1, 1994**

Opening day of the 44th CNS Annual Meeting.

### **October 6, 1994**

Last day of the CNS Annual Meeting.

### **October 6-7, 1994**

Tumor Satellite Meeting.

# General Information (continued)

Place East, for speakers wishing to preview their slides. A Speaker Ready Room will also be available at the Hyatt Regency on Thursday from 7:30 a.m.-11:00 a.m.

## SMOKING

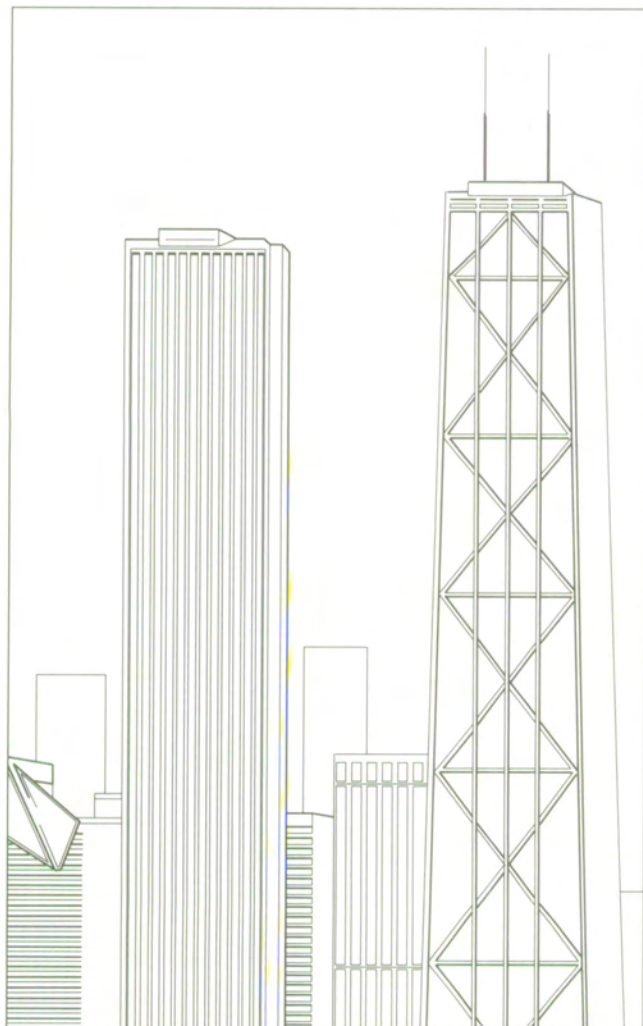
Smoking will be prohibited in all meeting rooms and exhibit areas.

## MESSAGE CENTER

The Message Center will be located in the CNS Registration Area during registration hours. Messages will be posted.

## LUNCHEON WITH EXHIBITORS

The Congress of Neurological Surgeons will also be providing luncheon for all primary registrants. Tickets will be included in the registration packets. Support CNS exhibitors with your attendance.



## CNS ANNUAL MEETING COMMITTEE

### ANNUAL MEETING

#### General Chairman

**H. Hunt Batjer**

#### Exhibits

Mark H. Camel

#### Host

George R. Cybulski

#### Local Arrangements

Jeffrey W. Cozzens

#### Public Relations

Bruce A. Kaufman

#### Registration

Winfield S. Fisher

#### Residents' Registration

Greg J. Bailey

#### Sergeant-At-Arms

H. Louis Harkey

#### Clinical Neurosurgery

Christopher M. Loftus

### SCIENTIFIC PROGRAM

#### Chairman

**Marc R. Mayberg**

#### General Scientific Session I

Stephen J. Haines

#### General Scientific Session II

Joseph M. Zabramski

#### General Scientific Session III

Neil A. Martin

#### General Scientific Session IV

Mitchel S. Berger

#### International Scientific Program

Roberta P. Glick,

Raymond Sawaya

#### Luncheon Seminars

Emily D. Friedman,

Vincent Traynelis

#### Open Scientific Session

Griffith R. Harsh IV

#### Poster Session

Walter A. Hall

#### Practical Courses

Charles L. Branch, Jr.

Philip E. Stieg

#### Special Courses

Keith L. Black

#### Joint Sections Programs

Stephen M. Papadopoulos

#### Residents Program

H. Carson McKowen

#### Program Evaluation

Eugene Rossitch

## Congress of Neurological Surgeons

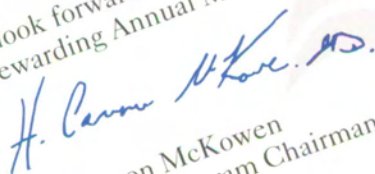
Annual Meeting — October 1-6, 1994 • Chicago, IL

Dear Residents:

On behalf of the Resident Program Committee of the Congress, I would like to welcome all neurosurgery residents to the Annual Meeting in Chicago, Illinois. The primary focus of the Scientific Program of the Annual Meeting is the education of young neurosurgeons. Each morning of the meeting is devoted to an in-depth discussion of one particular field of neurosurgery by leading experts from throughout the world. This year, luncheon seminars have been replaced with small breakfast seminars in order to free up the mid-day for a luncheon with the exhibitors to provide an opportunity to explore a specific topic in more detail and to meet many of the leaders in neurosurgery. A special free "Resident's Luncheon" has been planned for all residents during which they will meet our Honored Guest, Robert Spetzler. He is looking forward to meeting with the residents.

An exciting social program has been planned in Chicago to complement the outstanding scientific program and educational theme of the Annual Meeting. There is also a valuable opportunity to talk with the many commercial exhibitors and view the latest in modern neurosurgical instrumentation and imaging techniques.

I look forward to seeing you at what we hope will be an entertaining and rewarding Annual Meeting.



H. Carson McKowen  
Resident Program Chairman

## RESIDENT REGISTRATION

Meeting registration for Resident Members is complimentary. Non-member Residents have a reduced fee of \$50. All scientific course numbers followed by an "R" (i.e. 102R) are complimentary or discounted for residents. Please indicate the appropriate resident course number on the registration form to register for these courses. Special resi-

dent activities scheduled include the Resident Luncheon on Tuesday with the Honored Guest and representatives of the Congress leadership. Because of limited availability of resident tickets for some courses, early registration is suggested. On-site availability of complimentary course tickets can be determined at the registration desk.



# Special Announcements

## JOINT COUNCIL OF STATE NEUROSURGICAL SOCIETIES

The Joint Council of State Neurosurgical Societies (JCSNS) will be meeting in Chicago on Friday, September 30, 1994 and Saturday, October 1, 1994. The Joint Council deals with socioeconomic issues affecting all practicing and academic neurosurgeons. We will be discussing in depth and analyzing issues involving managed care, access to neurosurgeons, manpower, medical legal issues, and reimbursement methodologies and problems. As President of the Joint Council, I sincerely invite all

neurosurgeons to attend this very important two-day meeting.

For more information concerning this meeting, please contact your State Neurosurgical Society or Stan Pelofsky, President, Joint Council of State Neurosurgical Societies at (405) 748-3300 or FAX (405) 749-1645.

Stan Pelofsky  
President

## FOUNDATION FOR INTERNATIONAL EDUCATION IN NEUROLOGICAL SURGERY

Twenty-five years have passed since the Foundation for International Education in Neurological Surgery (FIENS), a charitable neurosurgical education organization, was incorporated in 1969. The primary goals have remained basically the same: To meet the needs for exchange of knowledge, experience, and techniques among the neurosurgeons of the world. Our principal activities have been concerned with facilitating neurosurgical training and expertise in the underdeveloped areas of the world, thus providing improved and expanded neurosurgical services in these areas. We have provided information to trainees and trainee-hopefuls in far away places about the availability of clinical and research training opportunities in North America. We have interacted with other neurosurgery organizations. Though the effort, in global terms, may seem small, considerable neurosurgical interchange of knowledge and friendship has been accomplished.

Since FIENS secretary Bill Mosberg's editorial published in the *Journal of Neurosurgery* in 1970, many neurosurgeons, foreign and American, have accepted the challenge to make modern neurological surgery skills available to people all over the world. The hopes Dr. Mosberg expressed continue to be realized, in that neurosurgeons are continuing to volunteer for overseas service in the name of FIENS;

and physicians whose professional commitments preclude such service are providing encouragement and enthusiasm, financial and moral support, without which FIENS would have floundered and failed in its intended purpose long ago.

A hearty THANKS to all who have worked to keep FIENS afloat like the Good Ship Hope. Please join in making this 25th anniversary an event to remember in the history of the Foundation.

A. Roy Tyrer

## ANNUAL MEETING CHAIRMAN'S NOTE

The Congress of Neurological Surgeons and FIENS have many historical and present-day linkages both in terms of personnel, leadership, and mission. We are pleased to announce that the 1994 International Reception will be sponsored by Williams and Wilkins and co-hosted by the CNS International Committee and FIENS in honor of the Foundation's 25th Anniversary.

Hunt Batjer  
Annual Meeting Chairman

## FUTURE MEETINGS

October 14 -19, 1995  
San Francisco, California

September 28 - October 3, 1996  
Montreal, Quebec

September 27 - October 2, 1997  
New Orleans, Louisiana

# Photo Exhibit

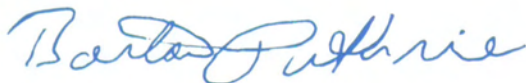
Dear Colleagues:

Many CNS members have significant photographic skills. Additionally, modern imaging, microscopic visualization and computer-graphics often yield pictures of significant and startling esthetic value, apart from their medical usefulness. In recognition of this and in order to enhance the nonscientific portion of the program, you are invited to participate in the photography show and contest at the 1994 Annual Meeting of the Congress of Neurological Surgeons.

There will be two broad categories: Non-medical (landscape, action, etc.) and medical (computer-graphics, microscopic/endoscopic operative shots, interesting pictures from the basic neurosciences, etc.). All pictures will be reviewed and ribbons awarded to those judged of superior quality and content within their respective category.

To assure a significant viewing of these pictures, the photographs will be displayed in conjunction with the Poster Session, and, if possible, some will be displayed as slides during portions of the Scientific Program.

To facilitate display of your picture or slide, please follow the instructions below.



Barton Guthrie  
Photography Exhibit Chairman

## RULES AND INFORMATION FOR ENTRANTS

1. Pictures should be taken by entrant.
2. All pictures will be eligible.
3. If you wish your picture to be considered for display during appropriate times in the Scientific sessions, please submit a standard 2" slide with your picture.
4. Pictures may be black and white or color.
5. All should be submitted on standard mounting board or matte. Do not submit pictures in frames or glass casing.
6. Pictures (and slides) may be submitted by mail with the entry form or may be submitted at the Poster/Photography
7. Photographs may be collected by the entrant on Wednesday, October 5, 1994, prior to 2:30 p.m. The CNS will not be responsible for theft, damage or return of the photograph.

Registration desk before 12:00 p.m. on Sunday, October 2, 1994.

Entries by mail should be sent to:  
Barton L. Guthrie, MD  
Division of Neurosurgery  
UAB School of Medicine  
B008 RAC  
1813 6th Avenue South  
Birmingham, AL 35294-3295

# Program Summary

Friday	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
Joint Council of State Neurosurgical Societies Meeting	Joint Council of State Neurosurgical Societies Meeting	Practical Courses	Breakfast Seminars General Scientific Session I: Emerging Health Care Issues In 1994 Presidential Address	Breakfast Seminars General Scientific Session II: Controversies in Skull Base Surgery Honored Guest Presentation	Breakfast Seminars General Scientific Session III: Management of Cerebrovascular Lesions Honored Guest Presentation	General Scientific Session IV: Management of Low Grade Gliomas Adjournment	Brain Tumor Satellite Meeting
Joint Council of State Neurosurgical Societies Meeting	Registration Opens at 2:00 pm	Practical Courses	International Lunch Lunch With Exhibitors Special Course I: Carotid Endarterectomy Honored Guest Presentation Joint Section on Spine Workshop Joint Section on Pediatrics Workshop	Resident/Honored Guest Luncheon Lunch With Exhibitors Special Course II: Degenerative Disease of Lumbar Spine Joint Section on Cerebrovascular Workshop Joint Section on Stereotactic and Functional Neurosurgery Workshop	Lunch With Exhibitors Special Course III: Management of Lesions of the Occipital-Cervical Junction Honored Guest Presentation Joint Section on Trauma Workshop Joint Section on Tumor Workshop	Brain Tumor Satellite Meeting	Brain Tumor Satellite Meeting
Joint Council of State Neurosurgical Societies Meeting	Dinner and the Chicago Symphony Deep Dish Pizza and Second City Theater Shipboard Dining and Cruise on the Odyssey	Opening Reception	Second City Theater and Deep Dish Pizza All That Jazz... And A Blue Note	Dinner and Theater Performance: Blood Brothers Riverboat Gambling in Joliet All That Jazz...And A Blue Note	Annual Reception and Banquet	Brain Tumor Satellite Meeting	Brain Tumor Satellite Meeting

Morning

Afternoon

Evening

# Scientific Program

SUNDAY, OCTOBER 2, 1994

Practical Courses

8:00 am-5:00 pm FULL DAY COURSES - McCORMICK PLACE EAST

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## 001 Acoustic Neuroma Surgery

Course Director: Steven L. Giannotta

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice. The participant will learn the indications and techniques regarding the different surgical approaches to acoustic neuromas. The risks, benefits and outcomes of individual techniques will be reviewed through cadaver dissection.

## 002 Carotid Surgery/Transcranial Doppler/Carotid Doppler

Course Directors: Christopher Wallace, Robert J. Dempsey

*Learning Objective:* This course will be directed toward residents and practicing neurosurgeons. The surgical techniques, indications, pitfalls and outcomes in carotid surgery will be reviewed didactically. Cadaver materials will be used to learn surgical technique. Transcranial and carotid Doppler methodologies will be reviewed and hands-on use of the instruments will facilitate learning. The strengths and weaknesses of these instruments will be discussed and understood after this course. The participant will understand the basic aspects of carotid surgery upon completing this course.

## 003 Critical Care for the Neurosurgeon

Course Director: Jack E. Wilberger

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will review and gain understanding in the current management techniques for the critically ill patient. Central line placement and the various ICP monitoring devices will be reviewed and the participant will understand their applications, techniques for insertion, and pitfalls. The participant will also learn fluid management, ventilator management, and applications for Swan Ganz catheters in the critically ill patient.

## 004 Intraoperative Mapping/Preoperative Localization/Epilepsy Surgery

Course Directors: Mitchel S. Berger, Peter McL. Black

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice. The participant will become proficient in the various mapping/localization techniques available and will be able to institute functional mapping intraoperatively. Complex surgical issues related to functional mapping will be reviewed. Functional MRI and magnetoencephalography will also be reviewed.

## 005 Techniques in Pain Control

Course Director: Kim J. Burchiel

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn the most current techniques in pain control. The indications for the specific techniques as well as their risks, benefits, and outcome data will be reviewed.

8:00 am-5:00 pm FULL DAY COURSES - HYATT REGENCY CHICAGO

## 006 Career Choices After Training: How to be Happy, Wealthy and Wise

Course Director: Emily D. Friedman

*Learning Objective:* This course is targeted to chief residents and recently graduated neurosurgeons (after fellowship or military years). The participant will learn how to evaluate different types of practice (HMO, PPO, PHO, etc.). Participants will learn basic skills in contract interpretation and evaluation. Participants will learn basic skills in coding and reimbursement and how to evaluate payor mix. Participants will learn importance of documentation and informed consent, as well as how to handle a complication. Examples of actual academic and private practice positions will be illustrated.

# Scientific Program (continued)

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## 007 Success in Managed Care for Neurosurgeons

**Course Director:** John A. Kusske

*Learning Objective:* This course will be directed toward residents about to start in practice and neurosurgeons in practice. The implications and impact of managed care systems will be reviewed. Managed care will be reviewed in general as well as specific neurosurgical issues. The participants will be able to understand the mechanisms for contract negotiations and initiate such negotiations with health maintenance and preferred provider organizations.

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8:00 am-12:00 pm MORNING HALF DAY COURSES - McCORMICK PLACE EAST

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## 008 Percutaneous Spine Techniques: Discography, APLD, and Laser

**Course Director:** Richard G. Fessler

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice. The participant will learn the indications, applications, risks, benefits, and outcomes associated with percutaneous spinal surgery techniques. Hands-on experience will enable utilization of the various systems available.

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## 009 Craniocervical Junction Stabilization

**Course Director:** Curtis A. Dickman, Arnold H. Menezes

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice. The participant will learn the indications, techniques, benefits, risks and outcomes associated with craniocervical junction stabilization. Familiarization with the various systems will be gained by direct application in cadavers.

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## 010 Cervical Stabilization and Halo Application

**Course Director:** Charles L. Branch

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice. The participant will learn the indications, techniques, risks, benefits and outcomes associated with cervical stabilization and halo application. Hands-on experience with cadaver specimens will facilitate learning.

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## 011 Anterior Skull Base Approaches

**Course Director:** Harry R. van Loveren

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice. The participant will learn the anatomical principles, indications, surgical approaches, risks, benefits and outcomes associated with the surgery of the anterior skull base. Cadaver specimens will facilitate learning of the anatomical and technical aspects.

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## 012 Neuroendoscopy

**Course Directors:** Kim H. Manwaring, Kerry R. Crone

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice. The participant will learn the indications, techniques, risks and benefits associated with neuroendoscopy. The strengths and weaknesses of different endoscopy systems will be reviewed and demonstrated.

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## 013 Intraventricular Approaches

**Course Director:** William Shucart

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice. Participants will learn the several surgical approaches to the ventricular system through a better understanding of ventricular anatomy. The strengths and weaknesses of the various surgical approaches will be clarified. Surgical risk and outcome analysis will also be reviewed.

**014** Aneurysm Surgery

**Course Directors:** H. Hunt Batjer, Arthur L. Day

*Learning Objective:* This course will be directed toward residents in training as well as practicing neurosurgeons. No specific background is required beyond basic training in neurosurgery. The participants will review in detail the anatomy of the intracranial vasculature, utilization and indications for temporary clips and the threshold for cerebral ischemia. Work stations will allow in depth review of the surgical approaches to aneurysms of the anterior and posterior circulation as well as their strengths and weaknesses.

**015** Craniofacial Repair: Congenital Models and New Plating Techniques

**Course Directors:** Philip E. Stieg, Derek A. Bruce

*Learning Objective:* This course will be directed toward residents in training and neurosurgeons in practice. The participants will review and understand the different surgical techniques used for the correction of congenital and traumatic craniofacial disorders. Particular emphasis will be placed on surgical planning techniques, plating procedures and clavicular reconstruction. Surgical risks, benefits and outcomes will be reviewed in detail in an effort to provide the participant with a framework to approach these complex problems.

**016** Frameless Stereotactic Surgery

**Course Directors:** Barton L. Guthrie, John R. Adler, Jr.

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. This course will familiarize the surgeon with the concept and capabilities of graphic-interactive surgical systems. Each participant will learn the practical use graphic-interactive systems for relatively common neurosurgical procedures using hands-on cadaver dissection. Participants will be able to determine the usefulness of graphic-interactive systems in neurosurgical practice.

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8:00 am - 12:00pm MORNING HALF DAY COURSES - HYATT REGENCY CHICAGO

**017** Consultants' Corner for Spine

**Course Director:** Stewart B. Dunsker

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. It will provide an open forum for the discussion of problems and decision making in the management of complex disorders of the spine. Cases brought by the participants will be reviewed and discussed by representatives from the Joint Section on Spine. The participants will develop a better understanding of the management of difficult spinal neurosurgical cases.

**018** Outcomes Analysis in Neurosurgical Practice

**Course Director:** Richard Toselli

*Learning Objective:* This course will be directed toward residents and practicing neurosurgeons. The participants will learn the basic principles of outcome analysis as it applies to neurosurgical practice. Existing outcome scales will be presented and discussed in light of relative merit and deficiencies.

**019** AMA Speakers' Course

**Course Director:** Patricia Clark

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participants will learn basic techniques for making effective presentations for a variety of applications, including interviews with the media, presentations to legislative or regulatory bodies, and effective speaking at scientific meetings.

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1:00pm-5:00 pm AFTERNOON HALF DAY COURSES - McCORMICK PLACE EAST

**020** Percutaneous Spine Techniques: Discography, APLD, and Laser

**Course Director:** Richard G. Fessler

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice. The participant will learn the indications, applications, risks, benefits, and outcomes associated with percutaneous spinal surgery techniques. Hands-on experience will enable utilization of the various systems available.



**028** Consultants' Corner for Tumor

Course Director: Peter McL. Black

*Learning Objective:* This course will be directed toward residents and attending neurosurgeons, as well as interested nurses and physician assistants. It will provide an open forum for the discussion of intracranial and skull base tumors. Cases brought by the participants will be reviewed and discussed by representatives from the Joint Section on Tumors. Surgical approaches as well as strengths and weaknesses will be reviewed. Outcome data will be discussed. The participants will gain a full understanding for the management of routine and complex intracranial tumors.

**029** Consultants' Corner for Pediatrics

Course Directors: R. Michael Scott, Arthur E. Marlin

*Learning Objective:* This course will be directed toward residents and practicing neurosurgeons, as well as interested nurses and physician assistants. The participants will discuss the indications, techniques, risks and outcomes related to pediatric neurosurgical techniques in an open forum based on case reviews. Cases brought by the participants will be reviewed and discussed by representatives from the Joint Section on Pediatric Surgery. The participant will gain a fuller understanding for neurosurgical techniques applied to the pediatric population and review the management of specific pediatric neurosurgical disease processes.

**030** Consultants' Corner for Cerebrovascular

Course Director: Warren Selman

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. It will provide an open forum for the discussion of problems and decision making in the management of cerebrovascular disease. Cases brought by the participants will be reviewed and discussed by representatives from the Joint Section on Cerebrovascular Diseases. The participants will develop a better understanding of the management of difficult cerebrovascular cases.

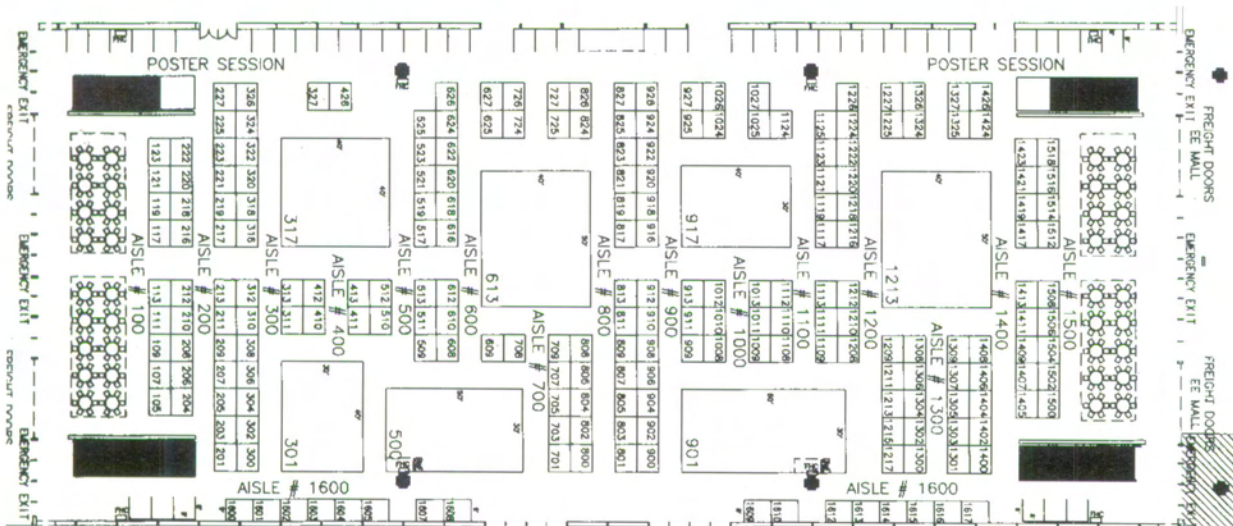
**NOTE: EXHIBIT AREA OPENS MONDAY AT 9:30 AM!**

Exhibit Hours:

Mon. Oct. 3—9:30 AM-4:30 PM

Tues. Oct. 4—9:30 AM-4:30 PM

Wed. Oct. 5—9:30 AM-3:00 PM





# Scientific Program (continued)

MONDAY, OCTOBER 3, 1994

Breakfast Seminars

6:30 a.m.-8:45 a.m. McCORMICK PLACE EAST

101/102R

**Advanced Cervical Spondylosis: When to Operate and Which Approach**

**Moderator:** Russell Travis **Speakers:** Emily D. Friedman, Iain H. Kalfas, Hiroshi Nakagawa

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will develop a better understanding of the evaluation of cervical spondylosis and the treatment options including both conservative and operative. The advantages and disadvantages of the various operative approaches will be reviewed.

103/104R

**Introduction to Thoracolumbar Instrument Biomechanics: Which System for Which Problem?**

**Moderator:** Volker K. H. Sonntag **Speakers:** Mark N. Hadley, Dennis J. Maiman, Russell P. Nockels,

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will obtain an understanding of basic thoracolumbar biomechanics, particularly in terms of the instrumentation for the thoracolumbar spine.

105/106R

**Posterior Circulation Aneurysms**

**Moderator:** Roberto C. Heros **Speakers:** James I. Ausman, Julian E. Bailes, Shigeaki Kobayashi

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn the present-day techniques for the management of posterior circulation aneurysms. These techniques include both diagnostic and interventional procedures.

107/108R

**Management of Occult Vascular Lesions**

**Moderator:** Daniel L. Barrow **Speakers:** Fredric B. Meyer, Philip E. Stieg, Joseph M. Zabramski

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn the various types of occult vascular lesions and how these can be detected. In addition to learning how to diagnose occult vascular lesions, the participant will develop an understanding of the various treatment modalities available for these problems as well as the nature history of this disease.

109/110R

**Management of Acute Cerebral Ischemia**

**Moderator:** Christopher M. Loftus **Speakers:** Jose Biller, Warren R. Selman, Akira Tamura

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn how to recognize various acute cerebral ischemia syndromes as well as the different treatment options available for this problem.

111/112R

**Management of Vascular Lesions Within the Cavernous Sinus**

**Moderator:** Laligam N. Sekhar **Speakers:** Arthur L. Day, Vinko V. Dolenc, Kevin J. Gibbons

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn to identify intracavernous vascular lesions. The participant will also learn the various operative approaches to these lesions as well as the role of interventional endovascular procedures in their management.

113/114R

**Experimental Therapeutics for Brain Tumors**

**Moderator:** Mark L. Rosenblum **Speakers:** Mitchel S. Berger, Walter A. Hall, Edward H. Oldfield

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn what experimental treatments are available for brain tumors at this point in time. The participant will develop an understanding for both the laboratory and clinical factors associated with these treatments.

**115/116R**

**Giant Craniopharyngiomas**

**Moderator:** Harold J. Hoffman **Speakers:** Alexa Canady, Peter W. Carmel, Dachling Pang

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn various surgical approaches for craniopharyngiomas including what complications are associated with these approaches. The role of conservative treatment will also be addressed.

**117/118R**

**Acoustic Tumors**

**Moderator:** Robert G. Ojemann **Speakers:** Steven L. Giannotta, Douglas Kondziolka, Masato Shibuya

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will develop an understanding of the current treatment options for acoustic tumors. These treatment options will include not only standard retromastoid craniotomy procedures but also temporal bone approaches and radiosurgery.

**119/120R**

**Controversies in Pituitary Surgery**

**Moderator:** Edward R. Laws **Speakers:** Alex M. Landolt, Kalmon D. Post, George T. Tindall

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn about the controversies which exist in the management of pituitary lesions. These controversies include the diagnostic studies (both radiographic and endocrine) involved in the evaluation of patients with pituitary tumors as well as the treatment options available for patients harboring these lesions.

**121/122R**

**Treatment of Causalgia and Pain of Peripheral Origin**

**Moderator:** Kim J. Burchiel **Speakers:** Bennett Blumenkopf, Ronald Brisman

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will develop an understanding of the theories surrounding the development of causalgia and pain of peripheral origin. The participant will also be exposed to treatment options for these conditions.

**123/124R**

**New Advances in Head Injury Management**

**Moderator:** John A. Jane **Speakers:** Ann-Christine Duhaime, Sherman Charles Stein, Linda L. Sternau

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will be presented with a variety of new treatments, all of which are geared toward improving the outcome of patients who have suffered head injuries.

**125/126R**

**Advances in Cranial Neuroendoscopy**

**Moderator:** Kerry R. Crone **Speakers:** Kenneth Casey, Alan R. Cohen, Liliana C. Goumnerova

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn the indications for cranial neuroendoscopy as well as some of the basic tenets in performing these procedures.

**127/128R**

**How to Evaluate a Practice Opportunity**

**Moderator:** Philip W. Tally **Speakers:** Joseph C. Maroon, Lawrence F. Marshall, Stanley Pelofsky

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice. The participant will learn how to evaluate practice opportunities. This evaluation will be more geared toward management and legal arrangements as opposed to the actual practice of clinical neurosurgery.

**129/130R**

**Chiari Malformations**

**Moderator:** W. Jerry Oakes **Speakers:** Hiroshi Abe, Arnold H. Menezes, Karin M. Muraszko,

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn the differences between the various types of Chiari malformations in both children and adults. The participant will be exposed to the present theories which have evolved to explain the development of spinal cord syrinxes associated with Chiari malformations and how these malformations should be treated.

**131/132R**

**Management of Shunt Complications**

**Moderator:** Dale M. Swift **Speakers:** Philip H. Cogen, Arno H. Fried, Shizuo Oi

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn to identify a variety of shunt complications and institute the proper therapy to correct these problems.

# Scientific Program

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**133/134R**

## Skull Base and Craniofacial Challenges in the Pediatric Population

**Moderator:** Derek Bruce **Speakers:** James Goodrich, Stephen J. Haines, John A. Persing

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn the indications and basic considerations involving in managing skull base and craniofacial abnormalities in the pediatric population.

**135/136R**

## Epilepsy Surgery in the Adult Population

**Moderator:** Robert R. Goodman **Speakers:** Youssef G. Comair, Tomokatsu Hori, Michael J. O'Connor

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn how to recognize adult patients who may benefit from epilepsy surgery. The participant will learn how to fully evaluate these patients, the available surgical options, and the expected outcome of surgery.

**137/138R**

## Spinal Infections

**Moderator:** Robert H. Wilkins **Speakers:** Fred H. Geisler, Richard K. Osenbach, James L. Stone

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn how to recognize various spontaneous and postoperative spinal infections. The participant will learn how to treat these infections both medically and surgically.

## VIDEO BREAKFASTS

**139/140R**

## Glomus Jugulare Tumors

**Moderator:** Jon H. Robertson **Speakers:** John P. Leonetti

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn specific operative techniques for glomus jugulare tumors.

**141/142R**

## Anterior Circulation Aneurysms

**Moderator:** Robert A. Solomon **Speakers:** Fernando G. Diaz, Yoko Kato

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn specific operative techniques for the management of anterior circulation aneurysms.

### CEREBROVASCULAR SURGERY

- 105/106R Posterior Circulation Aneurysms
- 107/108R Management of Occult Vascular Lesions
- 109/110R Management of Acute Cerebral Ischemia
- 111/112R Management of Vascular Lesions Within the Cavernous Sinus
- 141/142R Anterior Circulation Aneurysms

### PAIN

- 121/122R Treatment of Causalgia and Pain of Peripheral Origin

### PEDIATRIC

- 129/130R Chiari Malformations
- 131/132R Management of Shunt Complications
- 133/134R Skull Base and Craniofacial Challenges in the Pediatric Population

### SPINE AND PERIPHERAL NERVES

- 101/102R Advanced Cervical Spondylosis: When to Operate and Which Approach

- 103/104R Introduction to Thoracolumbar Instrument Biomechanics: Which System for Which Problem?

- 137/138R Spinal Infections

### STEREOTACTIC AND FUNCTIONAL NEUROSURGERY

- 125/126R Advances in Cranial Neuroendoscopy
- 135/136R Epilepsy Surgery in the Adult Population

### TRAUMA

- 123/124R New Advances in Head Injury Management

### TUMORS

- 113/114R Experimental Therapeutics for Brain Tumors
- 115/116R Giant Craniopharyngiomas
- 117/118R Acoustic Tumors
- 119/120R Controversies in Pituitary Surgery
- 139/140R Glomus Jugulare Tumors

### OTHER

- 127/128R How to Evaluate a Practice Opportunity

9:00 a.m. - 1:00 p.m.

## General Scientific Session I: Emerging Health Care Issues in 1994

**Presiding Officer:** Richard A. Roski  
**Moderator:** Stephen J. Haines

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. At the end of this session the participant will be able to identify the major trends in health care reform affecting neurosurgeons in the United States, the political factors underlying those trends and strategies for responding constructively to the trends.

9:00 - 9:10	<i>Breakthrough Discovery in Neurosurgery</i>	TBA
9:10-9:40	<i>The Politics of Health Care Reform</i>	Henry Desmarais
9:40-10:10	<i>Medicine in Transition-Strategies for change</i>	David Vogel
10:20-11:00	Keynote Speaker	TBA
11:00-11:15	COFFEE	
11:15-11:45	<i>Uniting Surgeons' Responses to Health Care Reform</i>	Paul Ebert (ACS)
11:45-12:15	<i>Discussion</i>	Panel
12:15-1:00	<i>President's Address</i>	Richard A. Roski

1:00 p.m. - 2:30 p.m.

### **150** INTERNATIONAL LUNCHEON AND PROGRAM - Introduced by Roberta Glick Speaker: Vinko Dolenc

*Learning Objective:* The participant will learn the differences and similarities between foreign and North American neurosurgical training programs, practice patterns and parameters of patient care.

1:00 p.m. - 2:30 p.m.

### LUNCH WITH EXHIBITORS

2:30 p.m. - 4:30 p.m.

### NURSE'S SEMINAR

2:30 p.m. - 5:30 p.m.

### SPECIAL COURSE I: CAROTID ENDARTERECTOMY

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn the latest microsurgical methods for endarterectomy and the most effective non-invasive imaging methods for carotid artery evaluation. In addition, the participant will learn current techniques for intraoperative monitoring and be able to determine the indications for shunting during endarterectomy. The participant will understand the economic impact of medical decisions regarding treatment of carotid disease.

2:30-2:50	<i>Update on Cerebral Protection from Ischemia</i>	Tadayoshi Nakagomi
2:50-3:30	<i>Microendarterectomy - Operative Techniques</i>	Robert F. Spetzler
3:30-3:50	<i>Non-invasive Diagnosis of Cerebrovascular Disease</i>	Robert J. Dempsey
3:50 - 4:05	COFFEE	
4:05-4:25	<i>Intraoperative Monitoring and Use of Shunts</i>	Christopher Loftus
4:25-4:55	<i>Decision-Making and Cost Analysis</i>	David Matchar
4:55-5:30	<i>Discussion</i>	Panel

2:30 p.m. - 5:30 p.m.

### JOINT SECTION ON SPINE

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The Joint Section on Spine will consist of a symposium followed by 10 open scientific presentations selected from submitted abstracts. The symposium will address current issues regarding the use of vertebral pedicle screws. The open scientific presentations will be previously unpublished and will offer participants information and understanding of the latest developments in neurosurgical and neuroscience research. Participants in the session will acquire information which will be applied to clinical practice and/or research endeavors.

2:30 - 3:30 **Symposium: Pedicle Screw Update**  
Speakers: Stewart Dunsker, Gregory Bennett, Curtis Dickman

3:30 - 5:30 **Open Scientific Session**

3:30	<i>Bilateral Versus Unilateral Posterior Atlantoaxial Facet Screw Fixation</i> John J. Knightly, Curtis A. Dickman, John F. Ronderos, A. B. Vardim, Dean G. Karahalios, Neil Crawford, MS, Volker K. H. Sonntag
3:40	<i>Anterior Versus Posterior Reoperation for Failed Anterior Cervical Discectomy and Fusion</i> Seth M. Zeidman, Paul C. McAfee, Thomas B. Ducker
3:50	<i>A Comparison of Fluoroscopy and CT-Derived Holography for the Guidance of Lumbar Pedicle Screw Insertion</i> Edward C. Benzel, Frederick W. Rupp, Bruce M. McCormack, Nevan G. Baldwin, John A. Anson
4:00 - 4:20	COFFEE
4:20	<i>Use of Motor Evoked Potentials to Prevent Intraoperative Neurologic Injury in Spinal Surgery</i> Erhard W. Lang, Andreas S. Beutler, Piyush M. Patel, Randall M. Chesnut, Nicholas A. Kennely, Reg Ept, John C. Drummond, Cor J. Kalkmann

# Scientific Program

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- 4:30 *Biomechanical Effects of Transoral Odontoidectomy*  
Curtis A. Dickman, Neil Crawford, MS, Eng, Anna Brantley, MS, Eng, Volker K. H. Sonntag
- 4:40 *Craniospinal Decompression Increases Intracranial Compliance and Reduces Subarachnoid Pressure in Patients with Chiari 1-Syringomyelia*  
John D. Heiss, Alec Eidseth, Ph.D., Thomas Talbott, M.S., Rocco Armanda, Nicholas Patronas, Edward H. Oldfield
- 4:50 *Pathological Basis of Spinal Cord Cavitation in Syringomyelia: Analysis of 105 Autopsy Cases*  
Thomas H. Milhorat, Anthony L. Capocelli, Jr., Archinto P. Anzil, Rene M. Kotzen, Robert H. Milhorat, B.S., M.E.
- 5:00 *Early MR Signal Changes in Denervated Muscles Following Peripheral Nerve Injury*  
Michelle Oh, Jay Tsuruda, Michael Mackinnon, Robert Goodkin, Michel Kliot
- 5:10 *Management of Spinal Tuberculosis*  
Ali R. Rezai, Mark Lee, Max Koslow, Paul R. Cooper
- 5:20 *PLIF by New Technique Using Threaded Titanium Fusion Cages*  
Charles Dean Ray
- 3:30 - 5:30 **Open Scientific Session**
- 3:30 *Neuroendoscopic Third Ventriculostomy in the Spina Bifida Population*  
Charles Teo, R. F. C. Jones
- 3:40 *Elevated Cerebral Venous Pressure as a Universal Mechanism in Pseudotumor Cerebri of Varying Etiologies*  
Dean G. Karahalios, Mazen H. Khayata, Harold L. Rekate, Paul J. Apostolides
- 3:50 *Endoscopic Treatment of Loculated Hydrocephalus*  
Adam I. Lewis, Kerry R. Crone, Glenn L. Keiper
- 4:00 - 4:20 **COFFEE**
- 4:20 *Atlanto-Axial Rotatory Fixation: A New Criteria for Diagnosis and Management Protocol*  
Vectai Li, Dachling Pang
- 4:30 *The Role of Multiple Surgical Treatment in the Management of Lipomyelomeningocele: An Analysis of 96 Patients*  
Andrew Reisner, Andrew K. Metzger, Samuel F. Ciricillo, Michael S. B. Edwards
- 4:40 *The Enigma of Lambdoid Positional Molding*  
John M. Kast, Duc Duong, William M. Chaddock
- 4:50 *Vagal Nerve Stimulation in Children with Intractable Epilepsy*  
Gregory W. Hornig, Jerome V. Murphy

2:30 p.m. - 5:30 p.m.

## JOINT SECTION ON PEDIATRICS

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The Joint Section on Pediatrics will consist of a symposium followed by 10 open scientific presentations selected from submitted abstracts. The session will address current developments and contemporary treatment of pediatric head injury. The open scientific presentations will be previously unpublished and will offer participants information and understanding of the latest developments in neurosurgical and neuroscience research. Participants in the session will acquire information which will be applied to clinical practice and/or research endeavors.

2:30 - 3:30 **Symposium: Contemporary Management of Pediatric Head Injury**  
**Speakers:** Ann Christine Duhaime, Philip Cogen

- 5:00 *Pediatric Cerebral Arteriovenous Malformations: A Management Outcome Comparison with an Adult Cohort*  
M.G. Hamilton, D. Karahalios, G. Thompson, H. Rekate, R. Spetzler
- 5:10 *Chiari Database Report: Management of Chiari Malformations with Concomitant Basilar Invagination*  
John G. Piper, Arnold H. Menezes
- 5:20 *Molecular Genetic Analysis of Chromosome 17p and 22q DNA Markers in Pediatric Ependymoma*  
Markus von Haken, Eileen W. White, MS, Ruby Kalra, Lalch Daneshvar, Philip H. Cogen, Ph.D.

# TUESDAY, OCTOBER 4, 1994

## Breakfast Seminars

6:30 am-8:45 am McCORMICK PLACE EAST

### 201/202R

#### Complications of Lumbar Disc Surgery

**Moderator:** Carole A. Miller **Speakers:** Donlin M. Long, W. Jost Michelsen, Christopher B. Shields

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn both the common and rare complications which are associated with lumbar disc surgery. Emphasis will be placed on how to prevent these complications as well as how to manage them should they occur.

### 203/204R

#### Cervical Spine Instability and Indications for Instrumentation

**Moderator:** Ronald I. Apfelbaum **Speakers:** Richard G. Fessler, Volker K.H. Sonntag, Vincent C. Traynelis

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn how to identify cervical spinal instability and when instrumentation is indicated for the treatment of this problem.

### 205/206R

#### Thoracolumbar Instability

**Moderator:** Richard G. Perrin **Speakers:** Regis Haid, Patrick Hitchon, Dennis G. Vollmer

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn how to identify thoracolumbar instability and how to treat this instability. Both conservative and operative therapeutic modalities will be discussed.

### 207/208/R

#### New Advances in Critical Care Management of Subarachnoid Hemorrhage

**Moderator:** Howard Yonas **Speakers:** Max Findlay, T. C. Origitano, Masato Shibuya

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will be presented with the latest advances in critical care management of subarachnoid hemorrhage. These advances are geared toward maintaining proper cerebral perfusion, minimizing vasospasm, and preventing recurrent hemorrhage.

### 209/210R

#### Treatment of Arteriovenous Malformations

**Moderator:** Arthur L. Day **Speakers:** William A. Friedman, Steven L. Ondra, Takashi Yoshimoto

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn how to evaluate and treat intracranial arteriovenous malformations. The treatments will include operative interventions, the role of endovascular interventions, and radiosurgical techniques.

### 211/212R

#### Management of Dural AVMs

**Moderator:** Bryce K. Weir **Speakers:** Stanley L. Barnwell, Thomas A. Kopitnik, Jr.

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn how to recognize and evaluate dural arteriovenous malformations. Various treatment options for these lesions will be discussed including surgical and endovascular therapies. The participant will learn the natural history of these lesions as well as the results of intervention.

### 213/214R

#### Surgical Management of Spinal Cord Tumors - An Update

**Moderator:** Paul R. Cooper **Speakers:** Fred J. Epstein, R. Michael Scott

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn how to manage spinal cord tumors through surgical excision. Specifically, emphasis will be placed upon intraoperative techniques and long-term follow-up.

### 215/216R

#### Brain Metastasis - Treatment Options

**Moderator:** Michael Salzman **Speakers:** Eben Alexander III, Griffith R. Harsh IV, Donald C. Wright

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn the various treatment modalities available for metastatic lesions to the brain, including surgical excision, stereotactic radiosurgery, and implanted radiation therapy.

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# Scientific Program

Tuesday

## 217/218R Complications of Skull Base Surgery

**Moderator:** Stephen J. Haines **Speakers:** Ossama Al-Mefty, Vinko V. Dolenc, Chandranath Sen

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn the indications for surgical management of skull base lesions and the complications associated with these operations.

## 219/220R Critical Care Management of the Head Injured Patient

**Moderator:** Thomas A. Genarelli **Speakers:** Howard H. Kaufman, Raj K. Narayan, Leslie N. Sutton

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn state-of-the-art critical care management for patients with head injury.

## 221/222R Advances in Treatment of Spinal Cord Injury

**Moderator:** Jack Wilberger **Speakers:** Barth A. Green, Stephen Papadopoulos, Wise Young

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn the advances in the treatment of spinal cord injury. These advances include both new pharmacological treatments as well as surgical intervention.

## 223/224R Stereotactic Assisted Craniotomy

**Moderator:** Richard D. Bucholz **Speakers:** Barton L. Guthrie, Patrick J. Kelly, Michael B. Sisti

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn the indications for stereotactic assisted craniotomies. The participant will also learn the various techniques and stereotactic system available for the performance of these operations.

## 225/226R Intraoperative MRI and Functional Mapping

**Moderators:** Mitchel S. Berger **Speakers:** Keith L. Black, Michael M. Haglund, Lucia Zamorano

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn how to interact interoperatively with MRI to functionally map the brain.

## 227/228R How to Perfect Intraoperative Photography and Videos

**Moderator:** James T. Goodrich **Speakers:** Takanori Fukushima, Dachling Pang, Kenneth R. Smith, Jr.

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn how to obtain optimal intraoperative photographs and videos.

## 229/230R Managed Competition: What's Ahead for Private Practice and Academia

**Moderator:** Lyal G. Leibrock **Speakers:** Julian Hoff, Andrew J.K. Smith, Russell L. Travis

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn about the present day state of managed competition. The future of health care, from a neurosurgical perspective, will be addressed for both private practice and academia.

## 231/232R Current Management of Spasticity

**Moderator:** Kenneth A. Follett **Speakers:** Paul A. Grabb, T. S. Park, Richard D. Penn

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn which patients are candidates for aggressive management of spasticity. The participant will also learn what treatment modalities are available for this problem including both medical and surgical approaches.

## 233/234R Intracranial Arachnoid Cysts

**Moderator:** Harold L. Rekate **Speakers:** Corey Raffel, Setti S. Rengachary, Jeffrey H. Wisoff

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn how to identify symptomatic intracranial arachnoid cysts and the optimal management for such patients.

## 235/236R Epilepsy Surgery in Children

**Moderator:** Peter W. Carmel **Speakers:** Peter M. Black, Robert E. Maxwell, Warwick J. Peacock

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn how to recognize pediatric patients who may benefit from epilepsy surgery. The participant will learn how to fully evaluate these patients and what sort of surgical options are available as well as the outcome following surgery.

## 237/238R Honored Guest Breakfast

**Moderator:** Robert F. Spetzler

This special Breakfast Seminar represents an opportunity for the Congress membership to directly interact with our Honored Guest. The planned forum should permit detailed discussions of topics brought up by participants as well as case presentations and their analysis by Dr. Spetzler.

## VIDEO BREAKFASTS

## 239/240R Ventricular Surgery

**Moderator:** Alan R. Cohen **Speakers:** Jeffrey W. Cozzens, Kim H. Manwaring

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn specific operative techniques for intraventricular surgery.

## 241/242R Entrapment Neuropathies

**Moderator:** John E. McGillicuddy **Speakers:** Kim J. Burchiel, Michel Kliot

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn to identify and treat common entrapment neuropathies.

### CEREBROVASCULAR

- 207/208R New Advances in Critical Care Management of Subarachnoid Hemorrhage
- 209/210R Treatment of Arteriovenous Malformations
- 211/212R Management of Dural AVMs

### PEDIATRIC

- 235/236R Epilepsy Surgery in Children

### SPINE AND PERIPHERAL NERVES

- 201/202R Complications of Lumbar Disc Surgery
- 203/204R Cervical Spine Instability and Indications for Instrumentation
- 205/206R Thoracolumbar Instability
- 241/242R Entrapment Neuropathies

### STEREOTACTIC AND FUNCTIONAL NEUROSURGERY

- 223/224R Stereotactic Assisted Craniotomy
- 225/226R Intraoperative MRI and Functional Mapping
- 231/232R Current Management of Spasticity
- 239/240R Ventricular Surgery

### TRAUMA

- 219/220R Critical Care Management of the Head Injured Patient
- 221/222R Advances in Treatment of Spinal Cord Injury

### TUMORS

- 213/214R Surgical Management of Spinal Cord Tumors—An Update
- 215/216R Brain Metastasis—Treatment of Options
- 217/218R Complications of Skull Base Surgery
- 233/234R Intracranial Arachnoid Cysts

### OTHER

- 227/228R How to Perfect Intraoperative Photography and Videos
- 229/230R Managed Competition: What's Ahead for Private Practice and Academia
- 237/238R Honored Guest Breakfast



# Scientific Program

Tuesday

9:00 a.m. - 1:00 p.m.

## General Scientific Session II: Controversies in Skull Base Surgery

**Presiding Officer:** William A. Friedman  
**Moderators:** Neil A. Martin, H. Hunt Batjer

9:00 - 9:10 *Breakthrough Discovery in  
Neurosurgery* TBA

### A. Treatment of Anterior Skull Base and Cavernous Sinus Lesions

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn the anatomy of the anterior skull base and cavernous sinus, and understand the rationale for differing therapeutic approaches to lesions in this area.

9:10-9:40 *Radical Resection* Robert F. Spetzler

9:40-10:00 *Conservative Resection +  
Radiation* Robert G. Ojemann

10:00-10:20 *Stereotactic Radiosurgery* L. Dade Lunsford

10:20-10:45 *Discussion* Panel

10:45-11:00 COFFEE

### B. Intracranial Carotid Artery Sacrifice and Reconstruction

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will be able to determine the relative need for carotid artery reconstruction in a variety of clinical settings, through review of pertinent surgical technique, indications and anatomy.

11:00-11:15 *Techniques of  
Carotid Reconstruction* Taka  
Fukushima

11:15-11:30 *Carotid Reconstruction  
Is Mandatory* Chandraneth Sen

11:30-11:45 *Carotid Reconstruction  
Is Unnecessary* Ossama Al-Mefty

### C. Intraoperative Monitoring

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will be familiarized with the various techniques for monitoring cranial nerve and brainstem function during skull base surgery, and understand the indications, rationale and efficacy of these monitoring techniques.

11:45-12:00 *Techniques-Intraoperative  
Monitoring* Aage Moller

12:00-12:15 *Monitoring Is Essential* Laligam N. Sekhar

12:15-12:30 *Monitoring Is Optional* Leonard I. Malis

12:30-1:00 *Discussion* Panel

1:00 p.m. - 2:30 p.m.

## 250R RESIDENTS/HONORED GUEST LUNCHEON

*Learning Objective:* The participant will learn a variety of surgical techniques, diagnostic approaches and career planning decisions through interactive discussions with the Honored Guest.

1:00 p.m. - 2:30 p.m.  
LUNCH WITH EXHIBITORS

2:30 p.m. - 4:30 p.m.  
NURSE'S SEMINAR

## 2:30 p.m. - 5:30 p.m. SPECIAL COURSE II: TREATMENT OF DEGENERATIVE DISEASE OF THE LUMBAR SPINE

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will be able to understand the basic concepts relating to degenerative spine disease, and to understand economic impact of medical decisions and outcome analysis to lumbar spine disease. In addition, the participant will learn about existing clinical trials for spinal surgery and be able to apply these concepts to the care of patients with spinal disorders through case presentations.

2:30-2:50 *Degenerative Lumbar Spine  
Disease - Overview* Edward C. Benzel

2:50-3:10 *Decision Making/  
Cost Analysis* Richard G. Fessler

3:10-3:30 *Management of Degenerative  
Spondylolisthesis* Charles B. Stillerman

3:30 - 3:45 COFFEE

3:45-4:05 *Update on Clinical Trials* Richard G. Perrin

4:05-4:25 *Future Directions in  
Management* Gary L. Rea

4:25-5:30 *Panel Case Presentations  
and Discussion* Stuart B. Dunsker

## 2:30 p.m. - 5:30 p.m. JOINT SECTION ON CEREBROVASCULAR DISEASE

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The Joint Section on Cerebrovascular Disease will consist of a symposium followed by 10 open scientific presentations selected from submitted abstracts. The symposium will address current information and issues regarding development of a clinical cerebral vascular practice and the treatment of accessible aneurysms. The open scientific presentations will be previously unpublished and will offer participants information and understanding of the latest developments in neurosurgical and neuroscience research.

- 2:30 - 3:00 **Building a Cerebral Vascular Practice**  
**Moderator: Patrick W. McCormick**  
**Speakers: Marc R. Mayberg, Richard A. Roski**
- 3:00 - 3:30 **The Role of Endovascular Treatment in Surgically Accessible Aneurysms**  
**Moderator: L. N. Hopkins**  
**Speakers: Robert F. Spetzler, Charles Struthers**
- 3:30 - 3:45 **Open Scientific Session**
- 3:30 **Galbraith Award**  
*Intraischemic Hypothermia Diminishes Core Glutamate Release in Permanent Focal Cerebral Infarcts*  
 Christopher J. Baker, Amory Fiore, BA, Robert A. Solomon
- 3:45 - 4:00 **COFFEE**
- 4:00 *Linac Radiosurgery for AVMs: Outcome Versus Size*  
 William A. Friedman, Frank J. Bova, William Mendenhall
- 4:10 *Cerebral Blood Flow Increases Following Infusion of a Nitric Oxide Donating Compound in Cerebral Vasospasm*  
 Robert J. Boock, Ph.D., Ryszard M. Pluta, John K. B. Afshar, Edward H. Oldfield
- 4:20 *Intraoperative Aneurysmal Rupture*  
 J. Paul Elliott, Peter D. LeRoux, M. Sean Grady, David W. Newell, Marc R. Mayberg, H. Richard Winn
- 4:30 *TCD Lacks Adequate Specificity to Guide Clinical Management Following SAH*  
 Brent L. Clyde, Howard Yonas, Holly A. Smith, B.S.
- 4:40 *Surgery Versus Endovascular Treatment with Platinum Coils for Intracranial Aneurysms: Early Posttreatment Results*  
 J. Michael Desaloms, Alex B. Valadka, Michel E. Mawad, James E. Rose
- 4:50 *Long-Term Patency of Saphenous Vein Bypass Grafts for Cerebral Revascularization*  
 Luca Regli, David G. Piepgras, Kristine K. Hansen, RN
- 5:00 *Severe Intraventricular Hemorrhage: Outcome Improvement by Intraventricular Fibrinolytic Therapy with Tissue Plasminogen Activator*  
 Veit Rohde, Carla Schaller, Werner Hassler
- 5:10 *Intraoperative Assessment of Aneurysm Clip Placement by Intravenous Fluorescein Angiography*  
 Charles J. Wrobel, Hal S. Meltzer, Roderick G. Lamond, John F. Alksne
- 5:20 *Efficacy of Prophylactic Nimodipine in Subarachnoid Hemorrhage: A Meta-Analysis*  
 Fred G. Barker, II, Christopher S. Ogilvy

2:30 p.m. - 5:30 p.m.

**JOINT SECTION ON STEREOTACTIC AND FUNCTIONAL NEUROSURGERY**

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The Joint Section on Stereotactic and Functional Neurosurgery will consist of a symposium followed by 10 open scientific presentations selected from submitted abstracts. The session will review

and update current knowledge regarding surgery and the treatment of neuropsychological disorders. The open scientific presentations will be previously unpublished and will offer participants information and understanding of the latest developments in neurosurgical and neuroscience research. Participants in the session will acquire information which will be applied to clinical practice and/or research endeavors.

2:30 - 3:30 **Symposium: Advances in Functional Imaging**

**Moderators: David W. Roberts, L. Dade Lunsford**

3:30 - 5:30 **Open Scientific Session**

3:30 *Posterior-Ventral Pallidotomy in Parkinson's Disease*  
 Robert P. Iacono, Russel Lonser, B.A.

3:40 *Fetal Transplantation in Parkinson's Disease*  
 Thomas B. Freeman, Robert A. Huaser, Paul R. Sanburg, Ph.D., Barry J. Snow Francois, J.G. Vingerhoets, Donald A. Smith, C. Warren Olanow

3:50 *Cavernous Malformation Surgery and Seizures*  
 Douglas S. Cohen, Geoffrey Zubay, B.A., Robert R. Goodman

4:00 *Islet Transplantation in a CSF Flow Driven Artificial Organ in Pancreatectomized Dogs: A Neurosurgical Approach to Insulin Dependent Diabetes*  
 Ayub K. Ommaya, Ilani Atwater, D.Sc., Mirta Spak-Glasman, Ph.D., Bethann Coonrad, M.Sc., John Bacher

4:10 - 4:30 **COFFEE**

4:30 *Complications and Failures of Stereotactic Biopsy of Brain Lesions*  
 Mark Bernstein, T.M. Soo, Ronald Tasker, Andres Lozano, Abhijit Guha

4:40 *In-Vitro Studies of a Human Magnetic Neurosurgery System*  
 Matthew A. Howard, III, M. Sean Grady, William C. Broaddus, Ralph G. Dacey, Rogers C. Ritter

4:50 *Pain Reduction by Intrathecal Administration of Glycine and Related Compounds*  
 Richard Simpson, Jr., Margaret M. Gondo, B.S., Claudia S. Robertson, J. Clay Goodman,

5:00 *Microvascular Decompression for Glossopharyngeal Neuralgia*  
 Daniel K. Resnick, Peter J. Jannetta, David Bissonnette, PA-C, Hae Dong Jho, Guiseppe Lanzino

5:10 *Medial Thalamotomy for Chronic Pain: A Comparison of Gamma Knife and Radiofrequency Stereotactic Techniques*  
 Ronald F. Young, Deane S. Jacques, Robert W. Rand, Patricia Rinaldi, Ph.D., J. Chodakiewicz

5:20 *Effect of Nerve Growth Factor on Neurotoxicity of and Neuronal Gene Delivery by a Herpes Simplex Amplicon Vector in the Rat Brain*  
 Peyman Pakzaban, Ole Isacson

# Scientific Program

WEDNESDAY, OCTOBER 5, 1994

Breakfast Seminars

6:30 am-8:45 am McCORMICK PLACE EAST

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## 301/302R Operative Management of Lumbar Stenosis

**Moderator:** Edward S. Connolly **Speakers:** Frances K. Conley, Thomas B. Ducker, Charles B. Stillerman

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn how to identify lumbar stenosis which may benefit from an operative intervention. The participant will learn several approaches surgically for this problem and the results of each particular approach.

## 303/304R Percutaneous Lumbar Techniques

**Moderator:** Noel I. Perin **Speakers:** Richard G. Fessler, Kevin T. Foley, Joseph C. Maroon

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn how to identify patients who may benefit from percutaneous lumbar techniques. The performance of these techniques as well as the results and complications associated with them will also be reviewed.

## 305/306R Management of Spinal Column Tumors

**Moderator:** Richard G. Perrin **Speakers:** Paul R. Cooper, Curtis A. Dickman, H. Louis Harkey

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn how to identify and manage spinal column tumors. Specific emphasis will be placed on metastatic lesions.

## 307/308R Options for Failed Back Treatment

**Moderator:** Donlin M. Long **Speakers:** Charles L. Branch, Jr., Kenneth A. Follett, Hubert L. Rosomoff

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn how to evaluate a patient who has failed treatment for back pain. Both medical and surgical therapy will be reviewed.

## 309/310R Giant Aneurysms

**Moderator:** H. Richard Winn **Speakers:** H. Hunt Batjer, S.J. Peerless, O. Howard Reichman

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn the available techniques for management of giant aneurysms. These techniques will include not only operative treatment but endovascular therapies.

## 311/312R Anterior Circulation Aneurysms

**Moderator:** Ralph G. Dacey, Jr. **Speakers:** Arthur L. Day, Shigeaki Kobayashi, Bryce Weir

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn how to manage anterior circulation aneurysms with specific emphasis on the surgical management.

## 313/314R Monitoring During Carotid Endarterectomy

**Moderator:** Christopher M. Loftus **Speakers:** J. Michael McWhorter, Fredric B. Meyer, Donald O. Quest

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn various monitoring techniques which can be employed to improve the safety of carotid endarterectomy. These monitoring techniques will include ultrasound, cerebral blood flow determination, intraoperative EEG, and the monitoring of the awake patient during surgery.

**315/316R****The Role of Endovascular Therapy in the Management of Vascular Lesions****Moderator:** L. N. Hopkins **Speakers:** Robert H. Rosenwasser, Duke Samson, Takashi Yoshimoto

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn what lesions are amenable to endovascular therapy. The results and complications of this type of therapy will be reviewed.

**317/318R****Treatment of Recurrent Gliomas****Moderator:** Mark L. Rosenblum **Speakers:** Griffith R. Harsh IV, Jr., Fabian Isamat, Edward R. Laws

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn how to recognize the presence of recurrent gliomas and what therapeutic options are available for the management of these lesions.

**319/320R****Treatment of Hormonally Active Pituitary Tumors****Moderator:** Ivan Ciric **Speakers:** Lawrence A. Frohman, Andrew D. Parent, Nicholas T. Zervas

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn how to treat hormonally active pituitary tumors. The discussion will include both the hormonal evaluation and treatment of pituitary tumors as well as surgical treatment.

**321/322R****Trigeminal Neuralgia****Moderator:** Sean Mullan **Speakers:** G. Robert Nugent, Robert H. Wilkins, Ronald F. Young

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn how to recognize trigeminal neuralgia. The participant will also learn the treatment options available including microvascular decompression, percutaneous rhizotomy, and percutaneous balloon compression. In addition to surgical intervention, medical management for this problem will be discussed.

**323/324R****Approaches to the Lateral and Third Ventricles****Moderator:** Albert L. Rhoton, Jr. **Speakers:** Mitchel S. Berger, Dachling Pang, Raymond Sawaya

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn not only the various approaches to the lateral and third ventricles but the indications and complications associated with these operations.

**325/326R****Update on Techniques in Stereotactic Biopsy****Moderator:** Dennis E. Bullard **Speakers:** Barton L. Guthrie, Patrick W. Hitchon, Arun-Angelo Patil

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn how to identify patients who may benefit from a stereotactic needle biopsy as opposed to an open biopsy. Various stereotactic approaches will be reviewed, and the complications associated with these procedures will be discussed.

**327/328R****Management of Clival Lesions****Moderator:** Philip H. Gutin **Speakers:** Keith L. Black, Arnold H. Menezes, Vincent C. Traynelis,

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn how to identify clival lesions. The participant will also learn anterior, anterolateral, and frontal approaches to the clivus.

**329/330R****Board Preparation****Moderator:** Howard H. Kaufman **Speakers:** John P. Girvin, Richard Saunders, Franklin C. Wagner, Jr.

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice who are preparing for the oral boards. The participant will learn how the neurosurgical oral board examination is conducted and what material is covered.

**331/332R****Pediatric Head Injuries****Moderator:** Derek A. Bruce **Speakers:** Timothy B. Mapstone, John P. Mickle, Micheal G. Muhonen

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn how to evaluate and treat acute pediatric head injuries.

# Scientific Program

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**333/334R**

## Management of Posthemorrhagic Hydrocephalus in the Newborn

**Moderator:** J. Gordon McComb **Speakers:** Ann-Christine Duhaime, Shizuo Oi, Harold L. Rekate

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn how to recognize posthemorrhagic hydrocephalus in the newborn. The participant will also learn the various treatments available for this problem as well as the prognosis of these patients.

**335/336R**

## Historical Topics in Neurosurgery

**Moderator:** T. Glenn Pait **Speakers:** William C. Bergman, William C. Hanigan, Gail L. Rosseau, Eugene Rossitch, Jr.

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will be exposed to a review of several historical topics in neurosurgery.

**337/338R**

## Hobbies of the Neurosurgical Giants

**Moderator:** Emily D. Friedman **Speakers:** Leonard I. Malis, Bennett M. Stein, George T. Tindall

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will be exposed to the personal interest and non-neurosurgical pursuits of respected senior participants.

## VIDEO BREAKFASTS

**339/340R**

## Vascular Decompression Procedures

**Moderator:** Robert I. Apfelbaum **Speakers:** Fernando G. Diaz, Takanori Fukushima

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn the specific approaches for vascular decompression.

**341/342R**

## Surgery for Acoustic Neuroma

**Moderator:** Stephen J. Haines **Speakers:** Steven L. Giannotta, Lawrence H. Pitts

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn specific operative techniques employed for the treatment of acoustic neuromas.

### CEREBROVASCULAR SURGERY

- 309/310R Giant Aneurysms
- 311/312R Anterior Circulation Aneurysms
- 313/314R Monitoring during Carotid Endarterectomy
- 315/316R The Role of Endovascular Therapy in the Management of Vascular Lesions

### HISTORICAL AND OTHER

- 329/330R Board Preparation
- 335/336R Historical Topics in Neurosurgery
- 337/338R Hobbies of Neurosurgical Giants

### PAIN

- 321/322R Trigeminal Neuralgia

### PEDIATRIC

- 331/332R Pediatric Head Injuries
- 333/334R Management of Posthemorrhagic Hydrocephalus in the Newborn

### SPINE AND PERIPHERAL NERVES

- 301/302R Operative Management of Lumbar Stenosis
- 303/304R Percutaneous Lumbar Techniques
- 305/306R Management of Spinal Cord Tumors
- 307/308R Options for Failed Back Treatment

### STEREOTACTIC AND FUNCTIONAL NEUROSURGERY

- 323/324R Approaches to the Lateral and Third Ventricles
- 325/326R Update on Techniques in Stereotactic Biopsy
- TUMORS**
- 317/318R Treatment of Recurrent Glioma
- 319/320R Treatment of Hormonally Active Pituitary Tumors
- 327/328R Management of Clival Lesions
- 341/342R Surgery for Acoustic Neuroma

9:00 a.m. - 1:00 p.m.

## General Scientific Session III: Controversies in the Management of Cerebrovascular Malformations

**Presiding Officer:** Daniel L. Barrow  
**Moderators:** Joseph Zabramski, Marc R. Mayberg

9:00 - 9:10 *Breakthrough Discovery in  
Neurosurgery* TBA

### I. Management of Giant Intracranial Aneurysms

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant should be able to understand new technologies and treatment options in the management of giant intracranial aneurysms, and to interpret objective data regarding long-term outcome, efficacy and risks to help select the best management option for individual patients.

9:10-9:30 *Natural history/Indications  
for intervention* Daniel L. Barrow  
9:30-10:10 *Surgical management* Robert F. Spetzler  
10:10-10:30 *Endovascular management* L. N. Hopkins  
10:30-10:50 *Discussion* Panel  
10:50 -11:10 COFFEE

### II. Management of Cerebral AVMs

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant should be able to integrate the information necessary to make decisions regarding the management of individual patients with cerebral AVMs. The risks and benefits of each of the available options for the treatment of cerebral AVMs will be presented by experts from the respective fields.

11:10-11:25 *Decision analysis* Winfield S. Fisher, III  
11:25-11:45 *Endovascular  
management* Takashi Yoshimoto  
11:45-12:05 *Radiosurgery* William A. Friedman  
12:05-12:25 *Surgical Management* Roberto C. Heros  
12:25-1:00 *Discussion* Panel

1:00 - 2:30

### LUNCH WITH EXHIBITORS

2:30 p.m. - 4:30 p.m.  
**NURSE'S SEMINAR**

2:30 p.m. - 5:30 p.m.  
**SPECIAL COURSE III: MANAGEMENT OF  
LESIONS OF THE OCCIPITAL-CERVICAL  
JUNCTION.**

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participant will learn the optimal surgical and medical management of rheumatoid arthritis of occipital-cervical junction, and understand surgical approaches for vascular lesions in this area. In addition, the participant will learn anatomical principles, indications and surgical techniques for traumatic, congenital and neoplastic lesions of this region.

2:30-2:50 *Rheumatoid Arthritis* Arnold H. Menezes  
2:50-3:25 *Vascular Lesions* Robert F. Spetzler  
3:25-3:45 *Traumatic Injuries* Mark N. Hadley  
3:45-4:00 COFFEE  
4:00-4:30 *Tumors* H. Alan Crockard  
4:30-5:00 *Congenital Lesions/  
Chiari Malformations* Hiroshi Abe  
5:00-5:30 *Discussion* Panel

2:30 p.m. - 5:00 p.m.

### JOINT SECTION ON TRAUMA

*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The Joint Section on Neurotrauma and Critical Care will consist of a symposium followed by 10 open scientific presentations selected from submitted abstracts. The session will address guideline development for neurotrauma care. The open scientific presentations will be previously unpublished and will offer participants information and understanding of the latest developments in neurosurgical and neuroscience research. Participants in the session will acquire information which will be applied to clinical practice and/or research endeavors.

2:30 - 3:30 **Symposium: Guidelines Development for  
Neuro-Trauma Care**  
**Speakers: Debra Lee Walters, Robert E.  
Florin, Raj K. Narayan**

3:30 - 5:30 **Open Scientific Session**

3:30 *Hypertonic Saline (23.4%) in Equiosmolar Doses  
is Superior to Mannitol for Reduction of ICP*  
Mark S. Schnitzer, Dimitar I. Denchev,  
Marek A. Mirski, Daniel F. Hanley  
3:40 *Cerebral Perfusion Pressure and Cerebral Blood  
Flow: Lack of Correlation*  
Ehud Shalmon, David A. Hovda, Neil A.  
Martin, Michael J. Caron, Michael J.  
Alexander, Donald P. Becker  
3:50 *Preliminary Experience with NeuroLink: A  
Neurosurgical Wide Area Network*  
Julian E. Bailes, Joseph C. Maroon  
4:00 - 4:20 COFFEE  
4:20 *Long-Term Outcome from Head Injury Can Be  
Reliably Predicted Twenty-Four Hours Following  
Injury Using a Bedside Neurological Exam*  
Adam N. Mamelak, Sue Damron, R.N.,  
Lawrence H. Pitts  
4:30 *Neurogenic Shock Following Cervical Spine  
Injury: Pulmonary Edema, Associated Factors,  
and Outcome*  
Robert A. Sabo, R. Cusick, B. Henderson,  
B.S., John P. Hendersen  
4:40 *Head and Spine Injuries in Sports and Recreation  
in Ontario in 1989 and 1992*  
Charles H. Tator, V. E. Edmonds, R.N., B.A.,  
L. Lapezak, B.Sc.

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# Scientific Program

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- 4:50 *Safety and Efficacy of Surgery and Methylprednisolone in the Acute Management of Spinal Cord Injuries Due to Gunshot Wounds*  
Mitchell R. Gropper, Charles David Hunt, Ashwini D. Sharan, B.S.
- 5:00 *Brain Tissue Pressure Gradients Produced by Frontal Epidural Mass Lesion*  
Christopher E. Wolfa, Robin M. Bowman, Timothy K. Putty, Thomas G. Leursen
- 5:10 *Surgical Management of Civilian Gunshot Wounds to the Head*  
Paul J. Apostolides, Dean G. Karahalios, Karl A. Greene, Robert F. Spetzler, Timothy Harrington
- 5:20 *Identification of Delayed Intracranial Hematomas Using Near-Infrared Spectroscopy*  
Shankar P. Gopinath, Claudia S. Robertson, Raj K. Narayan, Britton Chance, Ph.D.
- 2:30 p.m. - 5:00 p.m.**  
**JOINT SECTION ON TUMORS**  
*Learning Objective:* This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The Joint Section on Central Nervous System Tumors will consist of a symposium followed by 10 open scientific presentations selected from submitted abstracts. The session will address up to date information and opinions regarding treatment of pineal region tumors and cysts. The open scientific presentations will be previously unpublished and will offer participants information and understanding of the latest developments in neurosurgical and neuroscience research. Participants in the session will acquire information which will be applied to clinical practice and/or research endeavors.
- 2:30 - 3:30 Symposium: Pineal Region Tumors and Cysts**  
**Moderator:** Laligam N. Sekhar  
**Speakers:** Edward R. Laws, Jeffrey N. Bruce, L. Dade Lunsford,
- 3:30 - 5:30 Open Scientific Session**
- 3:30 Mahaley Award—Presented by Michael Apuzzo**  
*Surgical Treatment of Brainstem Tumors: Technical Notes*  
Albino Bricolo, Sergio Turazzi, Luciano Cristofori, Andrea Talacchi, Fabrizia Giogiutti
- 3:40 Preuss Award—Presented by Edward Laws**  
*Growth Inhibition of Glioma and Medulloblastoma Cells and Down Regulation of PDGF Receptors with Antisense Oligonucleotides to c-myc Oncogene*  
Eric P. Flores, Walter C. Low, Walter A. Hall
- 3:50 *Intraoperative Chemotherapy Using Biodegradable Polymers by a Prospective Multi-Institutional Placebo-Controlled Clinical Trial for Safety and Effectiveness*  
Henry Brem, Steven Piantadosi, Peter C. Berger, Michael D. Walker, Polymer Brain Tumor Treatment Group
- 4:00 *Endoscopic Laser Stereotaxis: Management of Brain Lesions*  
Lucia Zamorano, Christina Chavantes, Razvan Buciu, Fernando G. Diaz
- 4:10 - 4:30 COFFEE
- 4:30 *Invasive Glioma Cells Distant from Bulk Tumor Maintain Tumorigenicity*  
Michael R. Chicoine, Daniel L. Silbergeld
- 4:40 *Intratumoral Injection of p53 Gene Using Adenoviral Vector Inhibits 9L Glioma Growth in Rats*  
Behnam Badie, Keith L. Black
- 4:50 *Clinical Experience with Convection-Enhanced Drug Delivery in the Brain*  
Douglas W. Laske, Richard J. Youle, Ph.D., Orhan Ilceril, Daniel M. Liberman, James C. Reynolds, Patricia A. Stenart, Chang Paik, Ph.D., David Katz, Hetty L. DeVroom, R.N., Edward H. Oldfield
- 5:00 *Cushing's Disease: Treatment Using Intra-Operative Thermocoagulation and Early Re-Operation*  
Brooke Swearingen, Nicholas T. Zervas
- 5:10 *Defining the Effects and Potential Roles of Radiosurgery, Radiotherapy, or Combined Treatment Evaluated in an In Vivo Rat Glioma Model*  
D. Kondziolka, S. Somaza, L. D. Lunsford, D. Classen, J. Flickinger
- 5:20 *Stereotactic Radiosurgery and the Control of Brain Metastases*  
Thomas Moriarty, Jay S. Loeffler, Peter M. Black, Roger B. Davis, Sc.D., Patrick Wen, Howard Fine, Hanne Kooy, Ph.D., Eben Alexander III

**THURSDAY, OCTOBER 6, 1994**  
**HYATT REGENCY CHICAGO**

**8:00 a.m. - 12:00 p.m.**

**General Scientific Session IV:  
 Management of Low Grade Gliomas**

**Presiding Officer:** Stephen J. Haines  
**Moderator:** Mitchel S. Berger

8:00 - 8:20 *CNS Resident Award Presentation* E. Antonio Chiocca  
*Brain Tumor Gene Therapy in Mice with a Novel Suicide Gene: The Cyclophosphamide-Activating CYP21B Gene*

**I. Timing of Operation following Radiographic Diagnosis**

**Learning Objective:** This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participants will be able to evaluate the option of early surgery following radiographic diagnosis versus withholding surgery until tumor progression. The lectures will cover both points of view and will indicate the relative advantages versus disadvantages of both approaches.

8:20-8:40 *Early Surgery* Charles B. Wilson  
 8:40-9:00 *Delayed Surgery* Greg Cairncross

**II. Adjuncts to Surgery, Including Seizure Management**

**Learning Objective:** This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The discussion will cover the surgical methodology used to remove low-grade tumors in both the dominant and non-dominant hemisphere. The participant will learn the emerging techniques for brain mapping and be able to assess the potential merits of these techniques in surgery for intrinsic gliomas. The participants will understand the use of intraoperative electrocorticography to resect separate seizure foci versus removing the tumor alone for seizure control.

9:00-9:20 *Stereotactic Resection* Patrick J. Kelly  
 9:20-9:40 *Mapping-guided Resection (with electrocorticography)* Mitchel S. Berger  
 9:40-10:00 *Results of Surgery without Electrocorticography* Itzhak Fried

10:00-10:15 COFFEE

**III. Extent of Resection and Outcome**

**Learning Objective:** This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. This section will cover the concept of biopsy versus radical tumor resection for low-grade gliomas and how each surgical approach influences outcome in terms of time to tumor progression and survival. The participant will be able to interpret existing data regarding efficacy and benefit for each approach and apply these principles to patients with low-grade glioma.

10:15-10:35 *Biopsy Only* L. Dade Lunsford  
 10:35-10:55 *Radical Resection* Edward R. Laws, Jr.

**IV. Radiation therapy-Adjuvant versus time of recurrence**

**Learning Objective:** This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participants will learn the concepts of timing of radiation therapy, and be able to determine the role of radiotherapy at the time of diagnosis versus at the time of tumor progression.

10:55-11:15 *Adjuvant Therapy* Edward Shaw  
 11:15-11:35 *Time of Recurrence* Joseph M. Piepmeier  
 11:35-12:00 *Discussion*



*The 109 story Sears Tower dominates the Chicago skyline. The building stands 1454 feet above street level. With the antenna, the building is 1707 feet tall. The building is owned by Sears Roebuck and Company. Construction began in August of 1970 and the building was completed in 1973. It is the largest private office complex in the world, containing 4.4 million square feet with 101 acres of floor space. Approximately 16,500 people visit and work at Sears Tower each day. The black aluminum skin and bronze-tinted glass skyscraper has afforded spectacular views of the Windy City from the skydeck since 1974.*

*Photo Courtesy of the Chicago Convention Bureau/Gene Hickmott, Photographer.*

**Thursday**



# Tumor Satellite Symposium

OCTOBER 6-7, 1994

Hyatt Regency Chicago

The Joint Tumor Section of the AANS and CNS will sponsor a Tumor Satellite Symposium Thursday and Friday following the CNS Annual Meeting on October 6-7, 1994. The three primary areas to be covered during the meeting include Oncogenesis, Invasion and Metastasis and New Therapeutic Concepts. Each session will have with it a Free Paper Program, in which interested individuals may submit abstracts for peer review by a committee selected for this purpose. Each session will be comprised of basic scientists, as well as neurosurgeons who have active laboratory efforts in that particular area.

Thursday night a buffet dinner will be served during a poster review session. This will be an informal event in which individuals who are responsible for the posters can interact with other meeting participants. On Friday morning, attendees will enjoy a Continental Breakfast, followed by the session on Invasion and Metastasis, and the meeting will end with New Therapeutic Concepts, intermixed with the Free Paper sessions.

The Tumor Satellite Symposium is designed to promote interaction between basic scientists and neurosurgeons who either participate in a given area of laboratory investigation or are interested in learning more about new scientific methods which will hopefully be translated into therapeutic protocols for the clinical setting in the near future. This meeting is also intended to provide a forum for neurosurgical residents who may become interested in pursuing neuro-oncology research, and to interact with leaders in the field representing basic scientists and investigative neurosurgeons.

TUMOR SATELLITE SYMPOSIUM  
OCTOBER 6-7, 1994

## Thursday "ONCOGENESIS"

**Moderators:** Mark Israel, Mitchel S. Berger

1:00 p.m. - 1:20 pm Introduction: Mark Israel  
1:20 p.m. - 1:45 p.m. Web Cavenee  
1:45 p.m. - 2:10 p.m. David James  
2:10 p.m. - 2:35 p.m. Philip H. Cogen  
2:35 p.m. - 3:00 p.m. Daniel W. Fufts  
3:00 p.m. - 3:30 p.m. BREAK

**Moderators:** William F. Chandler, Darrel Bigner

3:30 p.m. - 6:00 p.m. Session: Free Papers  
6:00 p.m. - 8:30 p.m. Buffet Dinner with poster review

## Friday "INVASION AND METASTASIS"

7:00 a.m. - 7:30 a.m. Continental Breakfast

**Moderators:** Mark L. Rosenblum, Peter Burger

7:30 a.m. - 7:50 a.m. Introduction: Mark Rosenblum

7:50 a.m. - 8:15 a.m. James T. Rutka

8:15 a.m. - 8:40 a.m. Rolf Bjerkvig

8:45 a.m. - 10:05 a.m. Session: Free Papers

10:05 a.m. - 10:30 a.m. BREAK

## Friday NEW THERAPEUTIC CONCEPTS"

**Moderators:** Peter McL. Black, Larry Kun

10:30 a.m. - 10:45 a.m. Peter McL. Black

10:45 a.m. - 11:10 a.m. Len Erickson

11:10 a.m. - 11:35 a.m. Rick Morrison

11:35 a.m. - 12:00 p.m. Robert L. Martuza

12:00 p.m. - 1:00 p.m. LUNCH

**Moderators:** Roger Packer, Corey Raffel

1:00 p.m. - 3:00 p.m. Session: Free Papers

3:00 p.m. - 3:30 p.m. BREAK

**Moderators:** Skip Grossman, Mike Prados

3:30 p.m. - 3:55 p.m. Victor Levin

3:55 p.m. - 4:20 p.m. Jay Loeffler

4:20 p.m. - 4:45 p.m. Edward H. Oldfield

**Moderators:** Henry Friedman, Phillip H. Gutin

4:45 p.m. - 6:15 p.m. Session: Free Papers

6:15 p.m. ADJOURN



We hope you will make plans to attend the 44th Annual Meeting of the Congress of Neurological Surgeons in Chicago, Illinois from Saturday, October 1 to Thursday, October 6. The meeting will be held in McCormick Place, located on Lake Shore Drive. Shuttle service will connect the official meeting hotels to McCormick Place.

The Opening Reception will feature a "Taste of Chicago", and will be held at the Hyatt Regency Hotel. Tours have been specially selected to enable you to experience all that the city and area have to offer.

An Auxiliary Breakfast is planned this year and will feature Judith Viorst. Ms. Viorst is the contributing editor to REDBOOK magazine and is the author of numerous other articles and books, many which have been published abroad.

Don't miss the exciting program that we have planned for you in Chicago!!



*The Fountain is located in Grant Park at the lakefront. Built in 1926 and modeled after the Latona Fountain at Versailles, it is 280 feet across and holds 1.5 million gallons of water. One hundred and thirty-three jets shoot water almost 200 feet in the air while eight bronze seahorses spout water around the base. Between May and September, the fountain is illuminated with a shifting color display between 9:00 p.m. and 11:00 p.m. nightly.*

*Photo Courtesy of the Chicago Convention Bureau/Ron Schramm, Photographer.*

## About the President...

Dick and Debbie Roski live in Davenport, Iowa. They both grew up outside Cleveland, Ohio and met at Cleveland Metropolitan Hospital where Debbie worked as an R.N. and Dick was in his neurosurgical residency at Case Western Reserve University. They married in 1981.

After residency, Dick accepted a position at the University of Louisville in the division of Neurosurgery. They stayed for a very enjoyable two and a half years after which Dick entered private practice in Lumberton, North Carolina. After the birth of their second child, they decided to move back to the midwest. They have been in Davenport for eight years where Dick has a private practice. While in practice, Dick went back to school and in 1990 received his masters of science in Management from Purdue University. He had also received his undergraduate Engineering degree from Purdue in 1971. After a track career in college, Dick now enjoys the more leisurely sports activities of golf, tennis and skiing. Debbie is past president of the Junior League of the Quad Cities

and is currently active on the Bettendorf Citizens Educational Council. She enjoys time with her husband, children and tennis.

Their daughter Courtney is eleven years old and is a very accomplished and dedicated equestrian rider. Their son Justin, age ten, is involved in many sports activities including soccer and golf. Dick's other two children live in Carmel, Indiana. Kathryn, age 18, is active in school choir and drama activities. Kara, age 15, has lettered in volleyball.





# Auxiliary Tours

## *Saturday, October 1, 1994*

### **505 DINNER AND THE CHICAGO SYMPHONY 5:30 PM - 11:00 PM**

Begin this gala evening dining at the members-only club of the Chicago Mercantile Exchange opened exclusively for your dining pleasure. After dinner proceed to Orchestra Hall for a concert by the world-renowned Chicago Symphony. With maestro Daniel Barenboim conducting, hear selections from Schoenberg and Brahms as well as a violin solo by Maxim Vengerov.

### **506 DEEP DISH PIZZA AND SECOND CITY THEATER 6:00 PM - 10:30 PM**

What better place can there be to enjoy deep dish pizza than in Chicago, the city that made it famous? Dig into this mouth-watering dish at a popular pizzeria. Then, head for the birthplace of comedy clubs - Second City - the launching pad of countless stars. Topical humor and hilarious skits keep Second City fans laughing nightly.

### **507 SHIPBOARD DINING AND CRUISE ON THE ODYSSEY 6:45 PM - 11:00 PM**

Step aboard the luxury cruiser, "Odyssey" with four decks of entertainment, sightseeing, and dining amenities. Depart from Chicago's Navy Pier and sail northward on beautiful Lake Michigan to enjoy dazzling views of the city skyline and some of the world's most famous architecture. After strolling about, experience a relaxing dinner served tableside featuring a tempting variety of gourmet dishes. Complete the evening with live music, dancing and entertainment.

## *Sunday, October 2, 1994*

### **508 HIGHLIGHTS OF CHICAGO 9:00 AM - 12:00 PM**

Discover the energy and excitement of this world-class city. View dazzling architecture; distinguished museums; glamorous Michigan Avenue; the "Loop" and financial center; renowned outdoor sculpture; the Gold Coast; Lincoln Park; the University of Chicago and Hyde Park; and a breathtaking skyline from beautiful Lake Michigan... all these sights and more on a whirlwind tour of famous Chicago attractions.

### **509 THE CUNEO MANSION WITH BRUNCH IN LONG GROVE VILLAGE 9:30 AM - 4:00 PM**

Journey to the John F. Cuneo estate, a 32 room Venetian Palazzo built in 1914 on 75 acres. A conducted tour through its lavish interior includes views of two formal dining rooms, a marble indoor pool, art and antique masterpieces, and private chapel. Outdoors, see the mansion's formal gardens, antique statuary and plant conservatory. Continue to the charming nearby village of Long Grove where a bountiful Sunday brunch will be served at the "Seasons" restaurant. Browse through this quaint nineteenth century town featuring a vari-

ety of colorful shops and boutiques filled with unique and delightful wares.

### **510 ABOVE IT ALL - CHICAGO FROM THE "EL" 10:00 AM - 3:00 PM**

Experience Chicago's unique "railway in the sky." Board a privately chartered train with a special guide and go above ground traveling a 101 year-old rail link through city canyons and ethnic enclaves. Circle the "Loop" from on-high; pass spectacular architecture, dramatic mural art, and historic sights. Stop for a neighborhood walking tour and a tasty lunch at a favorite local restaurant.

### **511 CHICAGO CUBS BASEBALL AFTERNOON 12:00 PM - 5:30 PM**

There's no baseball town like Chicago where hope for a pennant springs eternal. Come to the "friendly confines" of beautiful Wrigley Field and join the thousands of loyal Cub fans cheering on their heroes. Today's game with the Pittsburgh Pirates promises to be major league baseball at its best.

### **512 ARCHITECTURAL RIVER CRUISE, WALKING TOUR AND NORTH PIER 1:00 PM - 4:30 PM**

Sail away on a Chicago River Cruiser for an unsurpassed architectural adventure that showcases over 100 spectacular works. Depart from historic North Pier, a one-time warehouse, now an exciting shopping, dining and entertainment complex. With your special architectural guide discover such highlights as Lake Point Towers, the Wrigley Building, Marina City, Sears Tower and the Lyric Opera Building. Back at North Pier enjoy three levels of exciting visitor attractions: miniature golf; video games and productions; charming shops; and even two museums. Later join an escorted walking tour for a close-up look at many of the famous buildings seen previously from the water.

### **501, 502, 503, 504 OPENING RECEPTION: TASTE OF CHICAGO 7:00 PM - 9:00 PM**

The Opening Reception will be held at the Hyatt Regency Hotel and will feature a "Taste of Chicago". Join your friends in exploring the diverse cultures and cuisine which can be found in Chicago. Little Italy, Greek Town, China Town and the Gold Coast will all be represented!!

## *Monday, October 3, 1994*

### **513 AUXILIARY BREAKFAST and PROGRAM WITH JUDITH VIORST and ANNUAL MEETING 8:00 AM - 10:00 AM**

The Auxiliary Breakfast has changed from the traditional Tuesday luncheon format to that of a Monday morning breakfast which will be held at the Hyatt Regency Hotel. Both the location and time will be more convenient as it will allow spouses to take advantage of the tours which will be held in the afternoon.

The Educational Session will follow the Auxiliary Breakfast and has been provided in conjunction with the General Scientific Session I at McCormick Place East. The General

Scientific Session will provide information regarding emerging health care issues affecting the neurosurgical community and will feature the Presidential address. Shuttle service is provided to McCormick Place.

This year's Auxiliary Program features author Judith Viorst. Judith Viorst was born and raised in New Jersey. Viorst is a contributing editor to REDBOOK, where her column has appeared for over twenty years.

Viorst is also the author of numerous collections of poems and prose. NECESSARY LOSSES, published in 1986, was on the *New York Times* bestseller list for over a year.

She is, in addition, the author of eleven books for children. Her first novel, MURDERING MR. MONTE was published in January 1994, and in March her new children's book, THE ALPHABET FROM Z TO A was published as well.

She lectures on a wide variety of topics, ranging from loss and development to children's literature. Her poetry has been read in performance by Anne Bancroft, Alfred Lunt and Lynn Fontaine, Ann Jackson, and Eli Wallach. Her musical, LOVE & SHRIMP, starring Eileen Barnett, Bonnie Franklin and Mariette Hartley was recently performed in Los Angeles and New York.

Viorst resides in Washington, D.C., with her husband, Milton, who writes for THE NEW YORKER and is the author of several critically acclaimed political books. They have three sons, Anthony, Nicholas, and Alexander.

**514**  
**THE WORLD OF FRANK LLOYD WRIGHT**  
**1:30 PM - 5:00 PM**

No American architect holds greater fascination than Frank Lloyd Wright. Trace his brilliant career in nearby Oak Park, a living museum of the master's works. Tour the restored Frank Lloyd Wright Home & Studio where he lived and worked for over 20 years and where his famous Prairie style design concept was born. Also visit Wright's first public building, the "Little Jewel Box," Unity Temple, a masterpiece of 20th century architecture. Homes of Wright's contemporaries as well as those of authors' Ernest Hemingway and Edgar Rice Burroughs will also be viewed.

**515**  
**ARCHITECTURAL INTERIORS**  
**WALKING TOUR WITH SEARS TOWER**  
**SKYDECK**  
**1:30 PM - 5:00 PM**

Join an exciting walking and coach tour of magnificent lobbies in both historic and ultra-modern Chicago buildings. View the dazzling lobby of the State of Illinois Building; the new and old lobbies of the 1929 Board of Trade; the 105-year-old Rookery Building's lobby by Frank Lloyd Wright; the Tiffany-designed rotunda lobby in the 1894 Marquette Building; and the stunning interior of the 1897 Chicago Cultural Center where a coffee break will be taken. Other exciting stops include the enclosed wintergarden of the new 311 S. Wacker Drive building, and the grand lobby of the tallest building in the land, Sears Tower, site of Alexander Calder's striking mobile "Universe." Ride the world's fastest elevator to the 103rd floor Skydeck for spectacular views of the city in its beautiful Lake Michigan setting.

NOTE: This tour will operate rain or shine. In case of rain umbrellas will be provided.

**516**  
**SECOND CITY THEATER AND**  
**DEEP DISH PIZZA**  
**6:00 PM - 10:30 PM**

A repeat of Saturday's tour 506



*Judith Viorst, author and speaker at Auxiliary Breakfast and Annual Meeting.*

**517**  
**ALL THAT JAZZ...AND A BLUE NOTE**  
**7:00 PM - 11:00 PM**

Jazz and blues - two unique forms of American music - gained world fame in Chicago during the turbulent twenties. Tonight experience the best of both musical styles listening to some of the country's greatest musicians. Begin with dinner, a cocktail, and a jazz set at one club; then head for a great blues club to catch the first show and enjoy another drink.

**Tuesday, October 4, 1994**

**518**  
**BIRD WATCHING AND BREAKFAST**  
**8:00 AM - 11:00 AM**

Join an experienced ornithologist for an early morning bird-watching expedition to lovely Lincoln Park. The end of the Fall migration makes this the perfect time to come to this major "flyway" area and watch the variety of birds that funnel in before heading South. A hearty pancake breakfast at a famous nearby restaurant follows.

**519**  
**THE NORTH SHORE AND BOTANIC**  
**GARDENS WITH LUNCHEON IN THE**  
**GARDEN'S GREENHOUSE**  
**10:00 AM - 4:00 PM**

Experience the beautiful colors of the autumn season following scenic Lake Michigan northward through Chicago's elegant residential suburbs. Pass Northwestern University in Evanston before stopping at Baha'i Temple, a gleaming white architectural jewel. Continue traveling through the towns of Wilmette, Winnetka, Glencoe, and Highland Park viewing elegant mansions, wooded ravines, and lake bluffs along the way. Stop at the delightful Chicago Botanic Gardens. Enjoy a narrated tram ride through the 300-acre park; see the Rose Garden, Japanese Garden, an Illinois prairie and an English perennial garden. A catered lunch in the park's lovely restaurant and time in the special gift shop complete the day.

**520**  
**THE MUSEUM OF SCIENCE AND INDUSTRY,**  
**OMNIMAX THEATER, AND LUNCH IN**  
**CHINATOWN**  
**12:00 PM - 4:30 PM**

Discover two intriguing sites on Chicago's south side. Drive to colorful Chinatown for a luncheon feast of tasty Oriental dishes in a landmark restaurant - then stroll the neighborhood to experience the sights and scents of this exotic community. Proceed to the distinguished Museum of Science and Industry. Enter the Space Center, to view a thrilling perfor-



# Auxiliary Tours (continued)

mance of the Omnimax Theatre's latest feature film. Witness the wonders of technology as a spellbinding adventure unfolds on a giant domed screen designed to bring you, the audience, into the action. Afterwards, explore the "hands-on" museum where visitors can activate the marvels of some 2,000 exhibits including a working coal mine, a captured World War II German submarine, a 16-foot-tall throbbing model of the human heart, and Colleen Moore's enchanting miniature Fairy Castle of priceless doll house furnishings.

## 521 LITERARY GEMS OF CHICAGO 1:00 PM - 5:00 PM

Three fascinating literary haunts will be explored on this excursion certain to delight all book lovers. Stop at a unique shop devoted entirely to Lincoln and Civil War manuscripts; a specialized private library famous for its department of genealogy and rare books collection; and a noted 125 year-old book-binding establishment where, on a private tour, the lost art of preserving, restoring, and decorating precious writings will be demonstrated.

## 522 DINNER AND THEATER PERFORMANCE: "BLOOD BROTHERS" 5:00 PM - 10:30 PM

Begin this evening of fun and great entertainment dining in a colorful family-style restaurant reminiscent of Little Italy, complete with old-world charm. Following dinner, enjoy an evening of spectacular theater watching a performance of the award-winning Broadway and London musical hit, "Blood Brothers." International recording and film star, Petula Clark, recreates her critically acclaimed performance as Mrs. Johnstone, the mother of twin sons separated at birth. The compelling story of how the brothers meet later in life, become friends, fall in love with the same girl, and eventually clash, is certain to enthrall you from beginning to end.

## 523 RIVERBOAT GAMBLING IN JOLIET 6:30 PM - 12:30 AM

Climb aboard the picturesque paddle wheeler, "Southern Star" located in Joliet, Illinois for an evening that's a guaranteed winner. Two great gaming decks including Blackjack, Roulette, Craps, and Poker await players ready to try their luck. An enjoyable buffet dinner in a private room adds to the festivities.

## 524 ALL THAT JAZZ...AND A BLUE NOTE 7:00 PM - 11:00 PM

A repeat of Monday's tour 517

## Wednesday, October 5, 1994

## 525 BICYCLES ALONG THE LAKEFRONT 8:00 AM - 12:00 PM

Capture the beauty of Chicago's glorious lakefront framing world-famous architecture on an exhilarating bicycle tour. Travel on protected paths with a qualified guide stopping at scenic Planetarium Point for spectacular skyline views.

Continue past monuments and historic sights; Buckingham Fountain, largest in the world; fashionable Oak Street; North Avenue Beach; and Lincoln Park. Here you can explore one of the country's finest zoos and enjoy a tasty picnic lunch at the lovely Cafe Brauer. Return along the park's quiet paths, through the fashionable Gold Coast area, back to your hotel. (Bicycle rental included)

## 526 THE MERCHANDISE MART AND SALVAGE ONE 9:30 AM - 1:00 PM

Explore this giant landmark, world's largest wholesale market. Join a conducted tour that includes furniture and fabric showrooms displaying the latest designs in home furnishings. Shop at the Sample Room or in the new retail fashion area. An interior designer will also be on hand to help anyone wishing to make purchases from the wholesale floors. Take time for lunch on your own at the Mart before heading to Salvage One, the city's foremost architectural salvage company with five floors of treasures from the past. A brief introductory talk explains how salvaged artifacts are acquired and how they can be used in one's own home or business.

## 527 ART ADVENTURE WITH LUNCH AT "ECCENTRIC" 10:00 AM - 4:00 PM

Begin this adventure by visiting prestigious galleries selected for the quality and excellence of their artists, collections, and special exhibits. Owners will be on hand to offer information and answer questions as you view their most important works. Lunchtime brings you to Oprah Winfrey's art-filled dazzler, "Eccentric" - it's big, lively and fun! Continue the day at the world-famous Art Institute of Chicago. Enjoy an escorted tour to view such treasures as Seurat's "Sunday Afternoon on the Island of La Grand Jatte," El Greco's "Assumption of the Virgin," Grant Wood's "American Gothic," Chagall's "America" stained-glass windows, plus a stunning collection of renowned French Impressionist masterpieces.

## 528 THE NORTH SHORE AND BOTANIC GARDENS WITH LUNCHEON IN THE GARDEN'S GREEN- HOUSE 10:00 AM - 4:00 PM

A repeat from Tuesday's tour 519

## 529 ANNUAL RECEPTION AND BANQUET 7:00 PM - 1:00 AM

Come and celebrate at the CNS Annual Banquet in the Grand Ballroom at the Hyatt Regency Hotel. An excellent dinner will be followed by the music of the Georgia Frances Orchestra who will be your entertainment for the evening.

*Register Today!*

# Auxiliary Program Summary



	<i>Saturday October 1</i>	<i>Sunday October 2</i>	<i>Monday October 3</i>	<i>Tuesday October 4</i>	<i>Wednesday October 5</i>
<b>Morning</b>		<p>Highlights of Chicago 9:00 am-12:00 pm</p> <p>The Cuneo Mansion with Brunch in Long Grove Village 9:30 am-4:00 pm</p> <p>Above it all—Chicago from the “EI” 10:00 am-3:00 pm</p>	<p>Auxiliary Breakfast Featuring Judith Viorst 8:00 am-10:00 am</p> <p>Educational Session 10:20 am-12:15 pm</p> <p>Presidential Address 12:15 pm-1:00 pm</p>	<p>Bird Watching and Breakfast 8:00 am-11:00 am</p> <p>The North Shore and Botanic Gardens with Lunch in the Garden’s Greenhouse 10:00 am-4:00 pm</p>	<p>Bicycles Along the Lakefront 8:00 am-12:00 pm</p> <p>The Merchandise Mart and Salvage One 9:30 am-1:00 p.m.</p> <p>Art Adventure With Lunch at “Eccentric” 10:00 am-4:00 pm</p> <p>The North Shore and Botanic Gardens with Luncheon in the Garden’s Greenhouse 10:00 am-4:00 pm</p>
<b>Afternoon</b>		<p>Chicago Cubs Baseball Afternoon 12:00 pm-5:30 pm</p> <p>Architectural River Cruise, Walking Tour and North Pier 1:00 pm-4:30 pm</p>	<p>The World of Frank Lloyd Wright 1:30 pm-5:00 pm</p> <p>Architectural Interiors Walking Tour with Sears Tower Skydeck 1:30 pm-5:00 pm</p>	<p>The Museum of Science and Industry, Omnimax Theatre and Lunch in Chinatown 12:00 pm-4:30 pm</p> <p>Literary Gems of Chicago 1:00 pm-5:00 pm</p>	
<b>Evening</b>	<p>Dinner and the Chicago Symphony 5:30 pm-11:00 pm</p> <p>Deep Dish Pizza and Second City Theater 6:00 pm-10:30 pm</p> <p>Shipboard Dining and Cruise on the Odyssey 6:45 pm-11:00 pm</p>	<p>Opening Reception 7:00 pm-9:00 pm</p>	<p>Second City Theater and Deep Dish Pizza 6:00 pm-10:30 pm</p> <p>All That Jazz...And A Blue Note 7:00 pm-11:00 pm</p>	<p>Dinner and Theater Performance: Blood Brothers 5:00 pm-10:30 pm</p> <p>Riverboat Gambling In Joilet 6:30 pm-12:30 am</p> <p>All That Jazz...And A Blue Note 7:00 pm-11:00 pm</p>	<p>Annual Reception and Banquet 7:00 pm-1:00 am</p>

# Introducing Keyplayers

## *Hunt and Janet Batjer Annual Meeting Chairmen*

Hunt Batjer was born in Burlington, Vermont in 1951 but was primarily raised in San Angelo, Texas. As a youth he played baseball and attended the University of Texas on an athletic scholarship. He subsequently graduated from the University of Texas Southwestern Medical School in Dallas in 1977. His internship and residency were also performed at Southwestern with the exception of a Neurology Fellowship at The National Hospital, Queen's Square, London under Professor Ian MacDonald and a Cerebrovascular Fellowship at The University of Western Ontario in London, Ontario under the direction of Drs. Charles Drake and Skip Peerless. Hunt is currently Professor of Neurosurgery in the Department of Neurological Surgery at the University of Texas Southwestern Medical Center.

Janet grew up in Dallas, Texas and subsequently graduated from Austin College. She then moved to the University of Texas at Dallas for her graduate work and received an MBA in 1977. Following her graduation she joined the staff at the University of Texas Southwestern Medical School where she handled the finances and personnel supervision for the Division of Cardiology. She also served as a frequent site visitor for Grant Applications to the National Institutes of Health. She and Hunt were married in May, 1989 and she is currently engaged full time trying to keep up with the two Batjer girls, Hannah (4) and Devon (2).



## *Marc and Terry Mayberg Scientific and Educational Chairmen*

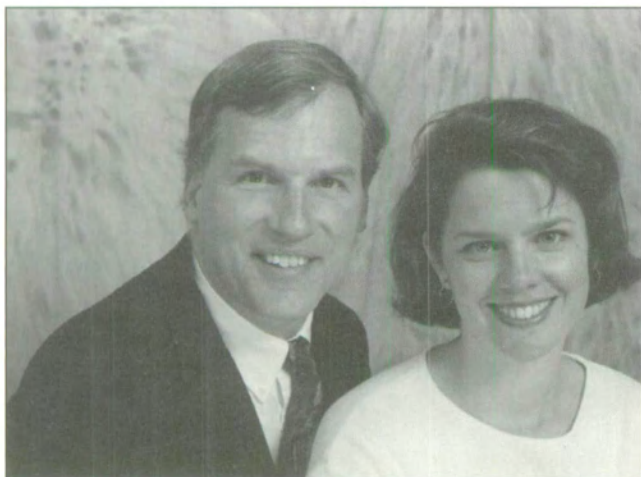
Terry was born in Florida, and lived in Spain and Texas before moving to Washington at an early age. She attended Gonzaga University where she graduated with honors. Terry did her medical school training and residency in Anesthesiology at the University of Washington in Seattle. After a fellowship in pulmonary physiology, she joined the neuroanesthesia faculty at the University of Washington, where she is currently an Assistant Professor. Her research interests include the effect of anesthetics on cerebral hemodynamics, and intraoperative monitoring of cerebral blood flow velocity and metabolism. Terry's other interests include skiing, cooking, and traveling.



Marc was raised in Minneapolis, and attended Harvard University. After medical school at Mayo, he did his residency training at Massachusetts General Hospital. Marc was a Van Wagenen Fellow at Queen Square in London. He joined the neurosurgical faculty at the University of Washington in 1985 and is currently an Associate Professor. His research interests include the biology of smooth muscle and endothelium, cerebral vasospasm, and carotid endarterectomy. Marc's hobbies include skiing, running, and traveling.

*Jeff and Sue Cozzens*  
*Local Arrangements Chairmen*

Jeff Cozzens grew up in the Chicago area. He obtained his undergraduate degree at Reed College in Portland, Oregon and his medical degree at the medical school at the University of Illinois at Chicago. He did his residency training at Northwestern University Medical School followed by fellowships at Cook County Hospital in Chicago and the University of Minnesota. He is currently an Assistant



Professor of Surgery (Neurosurgery) at Northwestern University Medical School and practices at Evanston Hospital. He is the Co-director of the Comprehensive Epilepsy Center of Evanston Hospital.

Sue Cozzens also grew up in the Chicago area. She attended the Northwestern University School of Nursing and was on the staff of Northwestern Memorial Hospital when she and Jeff were married. They have three children, Jim (10), Lauren (8), and Colleen (4).



*Ralph and Corinne Dacey*  
*President-Elect and*  
*Auxiliary President-Elect*

Ralph went to Harvard College, and obtained his MD degree from the University of Virginia in 1974. After training in internal medicine, he returned to the University of Virginia for his surgical and neurosurgical training. In 1983 he became an Assistant Professor at the University of Washington. He was the Chief of Neurosurgery at the University of North Carolina in Chapel Hill from 1987 through 1989. Since 1989, he has been Professor and Chairman of the Department of Neurological Surgery at Washington University, in St. Louis.

Corinne and Ralph have two children, Elizabeth, and Ralph III. In their spare time they enjoy golf, gardening, and the children's sports activities.

## FYI...

### **SAN FRANCISCO, CALIFORNIA, 1995**

The 45th Annual Meeting of the Congress of Neurological Surgeons will be held in San Francisco, California. This "City by the Bay" has a fascinating history and a beautiful landscape that will provide a scenic backdrop for the Annual Meeting. Ralph and Corrine Dacey as President-Elect of the Congress and Congress Auxiliary have plans well under way for a superb scientific and social program. Marc Mayberg will serve as Annual Meeting Chairman and Stephen Papadopoulos will be the Scientific Program Chairman. Brian Andrews will be Local Arrangements Chairman.

Mark your calendars now for the 45th Annual Meeting in San Francisco, October 14-19, 1995.



# Transportation and Hotel

## IMPORTANT AIR TRAVEL NEWS OFFICIAL CNS AIRLINES

The Congress of Neurological Surgeons has negotiated special rates with Delta Airlines and United Airlines to offer you savings on air travel to Chicago, Illinois, October 1-6, 1994.

Delta and United provide service to most major cities worldwide, and have achieved records of passenger satisfaction unequalled in the industry. Both airlines offer mileage programs to their passengers.

To make your reservations, call one of the toll-free numbers listed below. A trained meeting specialist will be happy to assist you or your travel agent in confirming reservations to the CNS Annual Meeting. Don't forget to identify yourself as a CNS participant and provide the special meeting file number indicated below.

For Reservations, Call:



800-241-6760  
8:00 a.m.-11:00 p.m.  
Eastern Standard Time  
Seven Days a Week  
Ask for file: PO344



800-521-4041  
7:00 a.m.-10:00 p.m.  
Eastern Standard Time  
Seven Days a Week  
Ask for file: 550CL

## HOTEL RESERVATIONS OFFICIAL CNS HOTELS

	RATES		RATES		
Hyatt Regency Chicago Hotel	Single	\$145.00	Swissôtel	Single	\$145.00
	Double	\$145.00		Double	\$145.00
	Regency Club	\$180.00			

- Swissotel is connected to the Hyatt via an underground walkway.
- To receive the special CNS discounted convention rate, the enclosed form must be used to make your hotel reservations.
- Please mail your housing form to the Hyatt Regency Chicago Hotel. All reservations or changes must be received by September 2. Upon receipt of your request, a written confirmation will be mailed to you indicating hotel assignment. Please allow four weeks for processing.
- Upon receipt of your confirmation, changes in arrival/departure or cancellations should be made directly with the hotel which has been assigned:

Hyatt Regency Chicago Reservations: 312/565-1234

Swissotel Reservations: 312/565-0565

- Reservations must be guaranteed with a credit card number on the housing reservation form.
- Early reservations are strongly suggested.
- If more than one room is needed, additional forms must be submitted, one for each room.

## FUTURE MEETINGS

October 14 -19, 1995  
San Francisco, California

September 28 - October 3, 1996  
Montreal, Quebec

September 27 - October 2, 1997  
New Orleans, Louisiana



## DATES OF FUTURE MEETINGS

1995	San Francisco, CA	October 14-19
1996	Montreal, Quebec	September 28-October 3
1997	New Orleans, LA	September 27-October 2

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