

Preliminary Program



OCTOBER 14-19, 1995

45th Annual Meeting of the
Congress of Neurological Surgeons

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SAN FRANCISCO

President's Letter



Congress of Neurological Surgeons



The 45th Annual Meeting of the Congress of Neurological Surgeons will be held in San Francisco, California from October 14 through October 19, 1995. The San Francisco Hilton and Towers will serve as the convention headquarters. The Hilton is ideally located in the heart of the city. Union Square and many theaters are just steps away. The Scientific Program will take place at Moscone Center South which has excellent small and large meeting rooms, as well as a large exhibit area.

Dr. John A. Jane will be this year's Honored Guest. Dr. Jane has a unique perspective on neurosurgery. He has been able to sustain a large practice of general neurosurgery, and combine it with innovative investigation in the areas of craniofacial surgery, pediatric neurosurgery, head injury and spinal neurosurgery. His perspective on innovation and research in neurosurgery is enhanced by his position as Editor of the *Journal of Neurosurgery*.

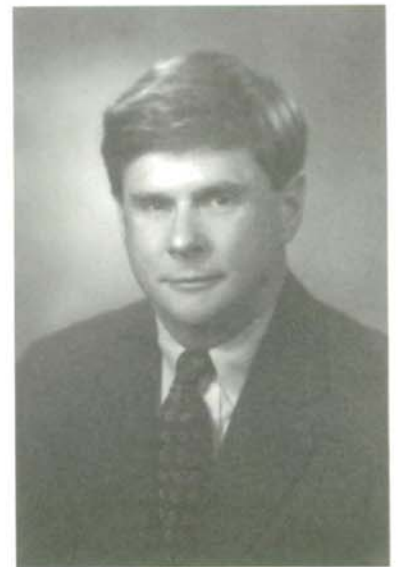
Dr. Marc Mayberg, Annual Meeting Chairman, and Dr. Stephen Papadopoulos, Scientific Program Chairman, have planned an exciting meeting. This year we will return to the Luncheon Seminar format. We will continue our interest in innovative meeting technology by using the Internet to meet with neurosurgeons around the world in cyberspace, and will continue to use the Instantaneous Reactive Interactive System to enhance participation by attendees of the CNS Annual Meeting in the General Scientific Sessions.

San Francisco is a wonderful city for our meeting. The Opening Reception will be held at the brand new San Francisco Museum of Modern Art which opened in January, 1995. We are one of the first to hold a social evening event at this venue. Because of the quality and diversity of restaurants in San Francisco we have decided this year to forego the formal banquet so as to allow members and their friends to enjoy San Francisco on Wednesday evening. A wine-tasting reception will be held early on Wednesday evening. Assistance will be available to facilitate restaurant reservations at the CNS Registration area at Moscone Center South. Hours for registration are noted throughout this Preliminary Program. This year's Auxiliary Educational Program on Tuesday will feature nutritionist and author, Debra Waterhouse, and the Auxiliary Luncheon will feature the California Culinary Institute with a cooking demonstration and lunch.

San Francisco is a wonderful city for our meeting. Corinne and I look forward to seeing you there.

Sincerely,

Ralph G. Dacey, Jr.
President, Congress of Neurological Surgeons



Ralph G. Dacey, Jr.
President,
Congress of Neurological Surgeons

CNS Annual Meeting Committee

Annual Meeting Chairman
Marc R. Mayberg

Scientific Program Chairman
Stephen Papadopoulos

Exhibits
Mark N. Hadley

Host
Walter A. Hall

Local Arrangements
Dr. and Mrs. Brian T. Andrews

Public Relations
Bruce A. Kaufman

Registration
Thomas Oritano

Sergeant-At-Arms
Michael L. Levy
Kevin J. Gibbons

Clinical Neurosurgery
Christopher M. Loftus

General Information

Welcome to the City by the Bay! San Francisco's fascinating cultural history can be seen in its landmarks—the Hispanic influence shown in the fortress known as the Presidio, the American settlement of Yerba Buena and the area known as Chinatown forged in the late 1800s. The story of San Francisco is also chronicled by nature. The richness of the land ushered in the Gold Rush of 1849 and forever marked the miners that came as “forty-niners.” The rebuilding of the modern city after the Great Earthquake and Fire of 1906 earned the city its “can-do” reputation. This was also demonstrated during the Great Depression by the building of the Golden Gate Bridge and the construction of Treasure Island—the largest man-made island in the world.

As one of the most unconventional cities in the nation, San Francisco's unique culture can still be seen today in its neighborhoods. Wander through Chinatown, North Beach, Nob Hill or the Mission District and you will see why San Francisco is known as “Everyone's Favorite City.”

Discover San Francisco's fascinating history at the 1995 Congress of Neurological Surgeons Annual Meeting!!

1995 Honored Guest

John Anthony Jane, MD, PhD, FRCS(C), FACS, was born and raised in the Chicago area. He received his Bachelor of Arts degree cum laude from the University of Chicago in 1951 and attended the University of Chicago School of Medicine and graduated with an MD degree in 1956.

Dr. Jane did his internship at the Royal Victoria Hospital in Montreal and began his neurosurgical residency at the University of Chicago with Dr. Sean Mullan. During his residency he had a number of important research and clinical fellowships. He was a fellow in neurophysiology at the Montreal Neurological Institute in 1958 and a senior fellow and demonstrator in neuropathology in 1959 and 1960 at McGill University in Montreal. In 1961 Dr. Jane went to London to serve as a research assistant to Mr. Wylie McKissock at St. George's Hospital and the National Hospital at Queen Square. There he conducted his seminal work on the natural history of intracranial aneurysms. He subsequently returned to Duke University to study with Dr. Irving Diamond, and in 1967 was awarded the PhD degree from the University of Chicago, Division of Biological Sciences, Section of Biopsychology. Dr. Jane completed his neurosurgical residency in 1963–1964 at the University of Illinois Neuropsychiatric Institute with Drs. Oscar Sugar and Eric Oldberg. In 1965 Dr. Jane became associated with Dr. Frank Nulsen at Case Western Reserve University. After four years he assumed his present position at the age of 37 as the Alumni Professor and Chairman of the Department of Neurological Surgery at the University of Virginia in Charlottesville, Virginia. He became the David D. Weaver Professor in 1987.

Dr. Jane is especially proud of having participated in the programs at the Western Reserve and subsequently at the University of Virginia and in the training of 13 Professors of Neurosurgery, 11 of whom became Chairmen, three Associate Professors, and five Assistant Professors. In 1993 Dr. Jane was elected as Editor of the *Journal of Neurosurgery*.

Dr. Jane has served as a Director of the American Board of Neurological Surgery and as Vice-President and President of The Society of Neurological Surgeons. In 1985 he received the Grass Award and was the Olivecrona Lecturer. He also received The Alumni Award for distinguished service from the University of Chicago.

Dr. Jane has a unique perspective on neurosurgery. His initial work in comparative neuroanatomy and psychobiology of marsupials, reptiles and teleost fish make him a veritable encyclopedia of neuroanatomy and physiology. His clinical interests and research have been in the treatment of severe head injury and disorders of the spine. He has an active spine service operating on nearly 400 cases last year. He was one of the originators of modern techniques for the treatment of craniofacial disorders.

The residents who train with him respect his immense capacity for work, his surgical skill and judgment, his unselfish commitment to them and his sense of humor. Dr. Jane's bibliography lists over 250 publications.

It is a privilege to have Dr. John A. Jane as the Honored Guest of the Congress of Neurological Surgeons.



John Anthony Jane

Opposite page.

The Golden Gate Bridge is one of San Francisco's most famous sites.

Photo courtesy of the San Francisco Visitors Bureau.



General Information

Mission Statement

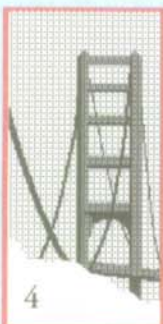
The Congress of Neurological Surgeons exists for the purpose of promoting the public welfare through the advancement of neurosurgery, by a commitment to excellence in education and by dedication to research and scientific knowledge. The Congress of Neurological Surgeons maintains the vitality of our 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.

Meeting Purpose

The purpose of the 1995 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 assistants and clinical specialists.

This education is provided in many forms:

- didactic lectures
- practical (hands-on) courses demonstrating neurosurgical techniques
- small group sessions to provide in-depth coverage of selected topics
- exhibits demonstrating the newest instruments and information known to the neurosurgical community
- posters to provide the latest information regarding clinical and laboratory advances in neurosurgery



San Francisco's famous cable car system was declared a National Historic Landmark on October 1, 1964.

Photo courtesy of the San Francisco Visitors Bureau.

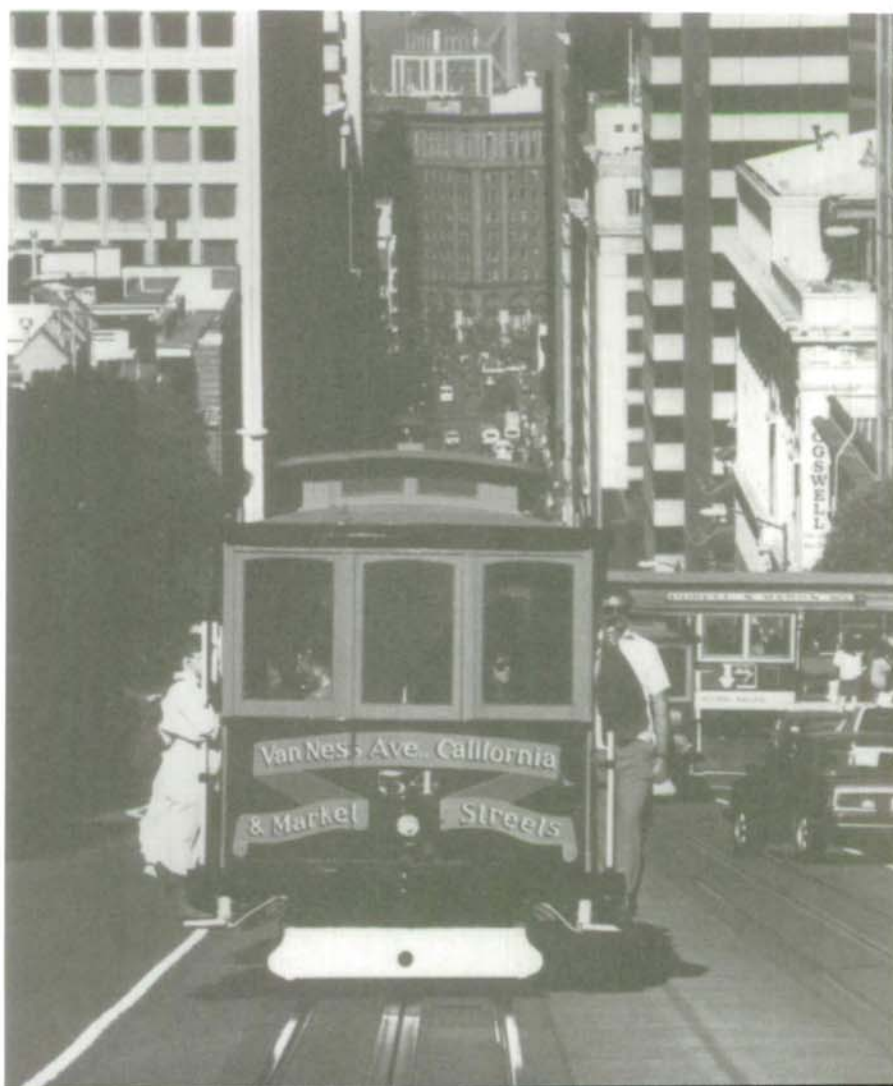
Continuing Medical Education

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 21.75 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 007–015, 017–025: 4 hours**
- Luncheon Seminars*: 2.5 hours**
- International Luncheon: 2.5 hours**
- Resident/Honored Guest Luncheon: 2.5 hours**

***Luncheon Seminar 335/336R will not be awarded Category I credits.**



Registration Information

Enclosed with this preliminary program are the following materials:

- ◆ Registration Form
- ◆ Housing Form
- ◆ Photography 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 all pages of the 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 14, 1995. 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 PM on Saturday, October 14 at Moscone Center South, and will remain open until 7:00 PM; Sunday through Wednesday, registration will be open from 7:00 AM – 5:30 PM, and from 7:30 AM – 12:00 NOON on Thursday. (Hours on page 29)

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

All Spouse/Guest registrants are invited to use the Hospitality Suite, including daily continental breakfasts from 8:00 AM – 10:00 AM (admittance to the Hospitality Suite is by Spouse/Guest or Nurse/Spouse badge only). The Hospitality Suite is located in the Vista Room on the 45th floor, Tower One, of the San Francisco Hilton and Towers and is open from 8:00 AM until 5:00 PM Sunday through Wednesday.

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. However, please note that children under the age of 18 years are not allowed into the Exhibit Hall.

Refund Policy

Registration Fees:

A letter requesting cancellation of pre-registration must be received by the CNS Annual Meeting Office, Attention: Pam Miczuga, 22 South Washington Street, Park Ridge, Illinois 60068-4287, by September 14 in order to receive a full refund. Cancellation requests received on or after September 15 but before October 9 will be refunded less a \$75.00 processing fee. No refunds will be made if received in the CNS Annual Meeting Office after October 9.

Cancellation may be faxed to (708) 692-4225.

Course and Event Tickets:

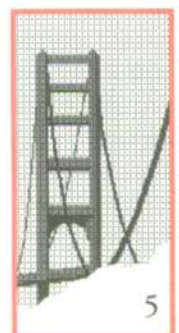
Course and event tickets will be refunded in full until October 9. Changes to course and event tickets may be telefaxed to (708) 692-4225. Because of facility guarantees, there can be no refund for tickets canceled after October 9. There will be no on-site return or exchange of tickets for courses.

Scientific Meeting

All scientific meetings and exhibits will take place at Moscone Center South with the exception of two (2) Practical Courses which will be held at the San Francisco Hilton and Towers on Sunday, October 15, 1995. Three hundred exhibits featuring the latest neurosurgical products will be on view Monday through Wednesday from 7:30 AM – 12:30 PM and from 2:00 PM – 4:30 PM.

CNS Member Services Center

Designed to increase the availability of the CNS Secretary's Office, the CNS Membership Office, as well as the Resident's and Placement Office, a CNS Member Services Center will be set up in Exhibit Hall B/C of Moscone Center South. The CNS Resource Center will be open during Exhibit Hall hours and will be located in the center of the hall. Staff members will be available to answer any questions you may have regarding the CNS and its member services.



General Information

CNS Exhibition

Over 300 exhibit booths will be located in Hall B/C of Moscone Center South. Hours are:

Monday, October 16 7:30 AM – 12:30 PM & 2:00 PM – 4:30 PM

Tuesday, October 17 7:30 AM – 12:30 PM & 2:00 PM – 4:30 PM

Wednesday, October 18 7:30 AM – 12:30 PM & 2:00 PM – 4:30 PM

Support CNS exhibiting companies. Their financial contribution to the Annual Meeting is essential to its success.

Social and Auxiliary Activities

Pages 31 through 38 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 have been selected to provide an opportunity to explore the San Francisco area. Individual childcare agencies and official references are available through the Concierge desk of the official CNS hotels listed below:

San Francisco Hilton and Towers (415) 771-1400

Four Seasons Clift Hotel (415) 775-4700

King George Hotel (415) 781-5050

Westin St. Francis Hotel (415) 397-7000

Hotel Reservations

Please reference the back inside cover of this brochure.

Airline Information

Please reference the back inside cover of this brochure.

CNS Shuttle Service

The CNS will provide shuttle service at regular intervals between Moscone Center South and official CNS hotels. A shuttle schedule will be posted at all official CNS hotels and Moscone Center South. Please reference page 28 for shuttle hours.

Speaker Ready Room

The Speaker Ready Room will be available Sunday through Wednesday from 7:00 AM – 5:00 PM in Room 106B at Moscone Center South for speakers wishing to preview their slides.

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.

American Academy of Pediatrics Annual Meeting— Moscone Center North

Visit with and meet your pediatric colleagues in San Francisco. The American Academy of Pediatrics Annual Meeting is being held at Moscone Center North. All CNS medical registrants and most important, members of the Joint Section on Pediatric Neurological Surgery are invited to visit the AAP Exhibition at Moscone Center North, Hall D. Your CNS badge is all that is needed for admission!

AAP Technical Exhibition

Moscone Center North, Hall D

Sunday, October 15 10:00 AM – 4:00 PM

Monday, October 16 9:00 AM – 4:00 PM

All members of the Joint Section on Pediatric Neurological Surgery are invited to a reception hosted by the American Academy of Pediatrics Section on Neurology on Tuesday, October 17. This reception immediately follows the Joint Section meeting at Moscone Center South, Gateway Ballroom 104 at 5:30 PM.

Important Dates

September 14, 1995

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.

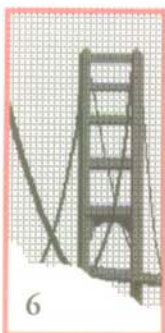
The official CNS Housing Form must be used to ensure convention rates.

September 15–October 9, 1995

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

October 10, 1995

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



Dear Residents:

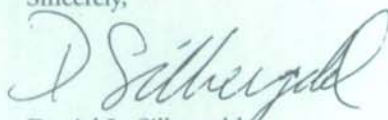
On behalf of the Resident Program Committee of the Congress of Neurological Surgeons, I would like to welcome all of the neurosurgery residents to the 1995 Annual Meeting in San Francisco, California. The primary focus of the Scientific Program of the Annual Meeting is the education of young neurosurgeons. Mornings will be devoted to in-depth discussions of specific fields in neurosurgery by leading experts from all over the world. Special courses are available in the afternoons to provide opportunities to explore specific topics in more detail and to meet with the leaders in neurosurgery.

A special "residents luncheon" has been planned for all residents attending the meeting, during which they will meet with our honored guest, Dr. John A. Jane. As you know, Dr. Jane is one of the outstanding neurosurgeons in the world today. His varied interests in neurosurgery include craniostyosis, head trauma, spinal neurosurgery and residency training. Dr. Jane is currently editor of the *Journal of Neurosurgery* and a member of the American Board of Neurological Surgery.

An exciting social program has been planned for San Francisco to complement the outstanding scientific and educational programs. It will also be 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 in what we hope will be an entertaining and rewarding Annual Meeting of the Congress of Neurological Surgeons.

Sincerely,



Daniel L. Silbergeld
Resident Program Chairman

Resident Registration

Meeting registration for Resident Members is complimentary. Non-member Residents have a reduced fee of \$75. All scientific course numbers followed by an "R" (i.e., 102R) are discounted for residents. Please indicate the appropriate resident course number on the registration form to register for these courses. Special resident activities scheduled include the Residents Luncheon on Tuesday, October 17, 1995, 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 discounted course tickets can be determined at the registration desk.

San Francisco's Alamo Square.

*Courtesy of the San Francisco
Visitors Bureau.*

Photo by Carol Simowitz.



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 program, you are invited to participate in the Photography Show and Contest at the 1995 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.

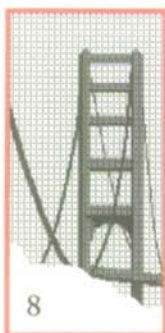
To facilitate display of your picture or slide, please follow the instructions provided.

Barton Guthrie
Photography Exhibit Chairman



RULES AND INFORMATION FOR ENTRANTS

1. Pictures should be taken by entrants.
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) should be mailed to the office of Dr. Barton L. Guthrie with the entry form prior to August 31, 1995 or may be submitted at the Poster/Photography Registration desk before 12:00 NOON on Sunday, October 15, 1995.
7. Photographs may be collected by the entrant on Wednesday, October 18, 1995 prior to 4:30 PM. The CNS will not be responsible for theft, damage or return of the photograph.



Entries by mail should be sent to:

Barton L. Guthrie, MD
Division of Neurosurgery
UAB School of Medicine
RAC B008
1813 6th Avenue South
Birmingham, AL 35294-3295

Scientific Program-at-a-Glance

CNS Annual Meeting Scientific Program Committee

Scientific Program Chairman
Stephen M. Papadopoulos

General Scientific Session I
Griffith R. Harsh IV

General Scientific Session II
Timothy B. Mapstone

General Scientific Session III
Dennis G. Vollmer

General Scientific Session IV
Issam Awad

International
Scientific Program
J. Nozipo Maraïre

Luncheon Seminars
M. Sean Grady
H. Louis Harkey III

Open Scientific Session
Philip E. Stieg

Poster Session
Joshua B. Bederson

Practical Courses
Eben Alexander
Vincent Traynelis

Special Courses
Linda L. Sternau

Joint Sections Programs
Winfield S. Fisher III

Residents Program
Daniel L. Silbergeld

Program Evaluation
Pat McCormick

Friday, October 13	Saturday, October 14	Sunday, October 15	Monday, October 16	Tuesday, October 17	Wednesday, October 18	Thursday, October 19	
<p>Joint Council of State Neurosurgical Societies</p> <p>Joint Council of State Neurosurgical Societies</p>	<p>Joint Council of State Neurosurgical Societies</p> <p>Registration Opens at 2:00 PM</p>	<p>Practical Courses</p> <p>Practical Courses</p>	<p>General Scientific Session I - Innovations in Cranial Approaches and Exposures</p> <p>Honored Guest Presentation</p> <p>Presidential Address</p> <p>International Luncheon</p> <p>Luncheon Seminars</p> <p>Special Course I - Developing a Comprehensive Stroke Center</p> <p>Joint Section on Trauma Session</p> <p>Joint Section on Tumors Session</p>	<p>General Scientific Session II - Craniofacial Disorders and Spinal Dysraphisms</p> <p>Honored Guest Presentation</p> <p>Convocation</p> <p>Decade of the Brain Medalist</p> <p>Residents/Honored Guest Luncheon</p> <p>Luncheon Seminars</p> <p>Special Course II - Computers for Neurosurgeons "Made Easy"</p> <p>Joint Section on Cerebrovascular Surgery Session</p> <p>Joint Section on Pediatrics Session</p>	<p>General Scientific Session III - Lumbar Disc Disease: Current Trends in Management</p> <p>Honored Guest Presentation</p> <p>Luncheon Seminars</p> <p>Special Course III: Management Guidelines for Severe Head Injury - Blessing or Curse?</p> <p>Joint Section on Spine and Peripheral Nerves Session</p> <p>Joint Section on Stereotactic and Functional Neurosurgery Session</p> <p>Joint Section on Pain Session</p>	<p>General Scientific Session IV - Innovations in Minimalism</p> <p>Adjourn</p>	<p>General Scientific Session IV - Innovations in Minimalism</p> <p>Adjourn</p>
	<p>Fior D'Italia and Beach Blanket Babylon</p>	<p>Opening Reception</p>	<p>San Francisco Dine Around</p>	<p>An Evening on the Bay Champagne and City Lights</p>	<p>Wine-Tasting Reception</p>	<p></p>	

Sunday-at-a-Glance

8:00 AM – 5:00 PM All Day Practical Courses

1:00 PM – 5:00 PM Afternoon Practical Courses

8:00 AM – 12:00 NOON Morning Practical Courses

7:00 PM – 9:00 PM Opening Reception

PRACTICAL COURSES

All Day Courses — 8:00 AM – 5:00 PM Moscone Center South

Surgery of the CP Angle and Temporal Bone

Director: Steven L. Giannotta

Faculty: William T. Couldwell; Lawrence H. Pitts; Stephen J. Haines; Takanori Fukushima; John D. Day

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Learning Objective: Surgery of the CP angle and temporal bone anatomy will be taught through lecture and hands-on laboratory experience. The participants will be able to describe the surgical anatomy of the three cranial base approaches to acoustic neuroma and select among the three for each individual patient. The participants will be able to apply temporal bone approaches in the clinical setting.

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Critical Care for the Neurosurgeon: Guidelines and Clinical Practice

Co-Directors: Jack Wilberger; Raj Narayan

Faculty: Daniel F. Kelly; Donald W. Marion; E. Richard Probst; Jamshid Ghajar; Randall M. Chesnut; Randy Bishop; Daniel J. Scodary; Anthony Zikos; David W. Newell; Brian T. Andrews; Charles H. Tator; James Lanz

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Learning Objective: The practicing neurosurgeon, resident, and critical care specialist will be provided with a comprehensive and interactive course in the management of neurologically compromised patients with critical multi-system disease. The participants will be able to recognize the basic concepts in intracranial and cardiorespiratory physiology as they relate to critical care of neurosurgical patients. The participants will be able to assess the need for and utilize the following technologies: intracranial pressure monitoring, Swan-Ganz monitors, transcranial Doppler, cerebral blood flow monitoring, and jugular venous oxygen monitoring.

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Carotid Surgery: Diagnostics and Technique

Co-Directors: Robert J. Dempsey; M. Christopher Wallace

Faculty: Robert E. Harbaugh; Christopher M. Loftus; Richard G. Perrin; J. Max Findlay; C. Pettigrew; R. Loch McDonald

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Learning Objective: The current indications for surgical and medical therapy for symptomatic and asymptomatic carotid disease will be reviewed. The surgical anatomy and approaches will be demonstrated through lecture and anatomical dissection. The participants will be able to recognize the indications for medical and surgical treatment of extracranial carotid disease. The participants will be able to recognize the application of non-invasive Doppler imaging of the intracranial and extracranial circulation.

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Augmentative Procedures for Pain Control

Director: Kim Burchiel

Faculty: Giancarlo Barolat; Robert M. Levy; Richard B. North; Richard D. Penn; Joel L. Seres; Andrew G. Shetter; Richard L. Weiner; Sally Schellschmidt; Samuel J. Hassenbusch

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Learning Objective: The current techniques of pain control with implantable technology will be discussed. The indications for the specific procedures as well as their risks, benefits, and outcome data will be reviewed. The participants will be able to list the indications for management of pain with implantable devices and select the most appropriate method for a given clinical situation.

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All Day Courses — 8:00 AM – 5:00 PM San Francisco Hilton and Towers

Managed Care, Contracts, and Coding

Co-Directors: Richard A. Roski; John A. Kuske

Faculty: Karen Zupko

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Learning Objective: Using lecture, discussion, and question and answer sessions, this interactive course will help participants understand how they can survive and prosper in the present health care environment. An update on Medicare rules for CPT coding will be reviewed and instruction on coding properly for operative procedures will be presented. After this course, the participants will be able to describe the current status of managed care in the United States and how this market will change in the next 12 months, analyze practice costs, initiate practice systems to manage contracts, interpret changes in Medicare rules for CPT coding, use proper coding for operative procedures, and review coding changes for 1996.

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Scientific Program

Sunday, October 15, 1995

All Day Courses — 8:00 AM — 5:00 PM San Francisco Hilton and Towers
(continued)

0 0 6	Starting in Neurosurgical Practice: All the Business You Need to Know	Director: Faculty:	Emily Friedman Richard A. Roski; Regis W. Haid, Jr.; Paul J. Camarata; Russell P. Nockels; Robert E. Florin; Mark H. Camel; Douglas Anderson; John A. Kusske; Craig A. Van Der Veer; Philip W. Tally	0 0 6
	Learning Objective: The business aspects of neurosurgical practice will be reviewed. Topics to be discussed include: evaluation of contracts, vertical integration and other group practice models, office computerization, coding, billing, and outcome measures as they relate to the private practice setting. The participants will be able to interpret neurosurgical business contracts, evaluate practice models and discuss computerization, coding, billing, and outcome measures as they relate to the private practice setting.			

Morning Half Day Courses — 8:00 AM — 12:00 NOON Moscone Center South

0 0 7	Percutaneous Spinal Techniques	Co-Directors: Faculty:	Richard G. Fessler; Noel I. Perin Hallett Mathews; Thomas McCormick; Parviz Kambin; Maurice Smith; Kevin Foley; Bruce McCormick; Daniel Rosenthal	0 0 7
	Learning Objective: The indications and techniques of percutaneous spinal surgery will be taught through lecture and hands-on laboratory experience using anatomical specimens. The participants will be able to recognize the role of percutaneous spinal techniques in treatment of patients with spinal disorders. The participants will be able to differentiate the specific clinical applications of this technology.			

0 0 8	Anterior Skull Base Approaches	Co-Directors: Faculty:	Harry R. Van Loveren; Jeffrey Keller Magdy El-Kalliny; Troy D. Payner; Shih Sing Liu; Kevin Shumrick; Arnold H. Menezes	0 0 8
	Learning Objective: Anterior skull base approaches will be taught through lecture and hands-on cadaver experience. The participants will be able to describe the surgical anatomy of several anterior skull base approaches including the transoral odontoidectomy, transoral approach for intradural tumors and Le Fort I maxillotomy and select among these for each individual.			

0 0 9	Cervical Spine Instrumentation I: C2 – T1	Co-Directors: Faculty:	Curtis A. Dickman; Charles L. Branch Brian G. Cuddy; H. Louis Harkey; Vincent C. Traynelis; John A. Wilson, Jr.; Gerald E. Rodts, Jr.; Stephen M. Papadopoulos; Richard Assaker	0 0 9
	Learning Objective: The indications, techniques, and complications for both anterior and posterior subaxial instrumentation will be reviewed using lecture and hands-on instruction with anatomical models. The participants will be able to recognize the indications for subaxial instrumentation. The participants will be able to describe the technical application of subaxial instrumentation.			

0 1 0	Intracranial Endoscopy	Director: Faculty:	Alan R. Cohen Carl B. Heilman; John Frazee; Stephen J. Haines; Shizuo Oi; Axel Perneczky; Gary Rodziewicz; Marion L. Walker; Michael Gaab; Christian Matula	0 1 0
	Learning Objective: The indications and techniques of intracranial endoscopy will be taught through lecture and hands-on laboratory experience using anatomical models. The participants will be able to identify the current applications of endoscopy in neurological surgery, and to state the potential benefits, risks, and pitfalls associated with endoscopic neurosurgery.			

0 1 1	Anterior Circulation Aneurysms	Co-Directors: Faculty:	H. Hunt Batjer; Arthur L. Day Ralph G. Dacey, Jr.; Daniel L. Barrow; Duke S. Samson; Robert A. Solomon	0 1 1
	Learning Objective: The anatomy and surgical treatment of supratentorial intracranial aneurysms will be thoroughly reviewed through didactic lectures and video case presentations. The participants will be able to thoroughly describe the surgical management of supratentorial intracranial aneurysms.			

0 1 2	Thoracic Outlet Syndrome, Ulnar Neuropathy, Carpal Tunnel Syndrome: Fact, Fiction, New Techniques	Director: Faculty:	John E. McGillicuddy Alan Belzberg; Russell W. Hardy; David G. Kline; Allan H. Friedman; Bradford Edgerton	0 1 2
	Learning Objective: The diagnosis and treatment of pathology of the brachial plexus and peripheral nerves in the upper extremities will be related via lecture, video case presentations, and panel discussions. The participants will be able to discuss the clinical evaluation and treatment of lesions affecting the brachial plexus and peripheral nerves of the upper extremities. The participants will be able to recognize the controversial issues involved with the management of these lesions.			

Morning Half Day Courses — 8:00 AM – 12:00 NOON Moscone Center South (continued)

0 1 3	<p>Intraoperative Functional Mapping</p> <p>Director: Mitchel S. Berger</p> <p>Faculty: George Ojemann; Carl Sartorius; Nick Barbaro; Youssef Comair; Roy Bakay; Warwick Peacock; Andre Olivier; Mike Dogali</p> <p>Learning Objective: The practical aspects of functional mapping for intracranial pathology and epilepsy surgery will be represented via lecture, slide presentation, and cadaver demonstration. The participants will be able to summarize the technical aspect of language and motor mapping, subcortical mapping, seizure detection, and resective strategies for temporal lobectomy, hemispherectomy, and subpial resection.</p>	0 1 3
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0 1 4	<p>Introduction to Thoracolumbar Stabilization</p> <p>Co-Directors: Edward C. Benzel; Regis W. Haid</p> <p>Faculty: Nevan G. Baldwin; Richard A. Berkman; Gerald E. Rodts; Scott C. Erwood; Bruce McCormack; Mike Sturgill; Russell P. Nockels; Brian G. Cuddy; Perry A. Ball; Andrea L. Halliday; William E. Krauss; J. Patrick Johnson; James P. Hollowell; Charles B. Stillerman</p> <p>Learning Objective: Basic concepts of thoracolumbar biomechanics, construct design, and instrument applications will be discussed. The basic indications and techniques of implantation of anterior and posterior thoracolumbar instrumentation will be taught through lecture and hands-on laboratory experience using anatomical specimens. The participants will be able to recognize the basic indications for thoracolumbar instrumentation. The participants will be able to describe the basic technical application of thoracolumbar instrumentation.</p>	0 1 4
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0 1 5	<p>Graphic Interactive Surgery</p> <p>Director: Barton L. Guthrie</p> <p>Faculty: Richard Bucholz; Jamie Henderson; Robert Maciunas</p> <p>Learning Objective: This course will familiarize the surgeon with the concept and capabilities of graphic-interactive surgical systems. The practical uses of graphic-interactive systems for relatively common neurosurgical procedures will be demonstrated using hands-on cadaver dissection. Participants will be able to determine the usefulness of graphic-interactive systems in neurosurgical practice.</p>	0 1 5
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Morning Half Day Course — 9:00 AM – 12:00 NOON University of California at San Francisco

0 1 6	<p>Brain Anatomy Workshop for Nurses</p> <p>Director: Diane Daly Ralston, PhD</p> <p>Learning Objective: The Brain Anatomy Workshop is a highly interactive learning experience designed to help neuroscience nurse attendees become more familiar with basic brain anatomy. This didactic workshop will feature hands-on interaction with faculty and lectures on gross neuroanatomy. The participants will be able to describe basic concepts in neuroanatomy that apply to clinical evaluation of patients.</p>	0 1 6
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Afternoon Half Day Course — 1:00 PM – 5:00 PM Moscone Center South

0 1 7	<p>Percutaneous Spinal Techniques</p> <p>Co-Directors: Richard G. Fessler; Noel I. Perin</p> <p>Faculty: Hallett Mathews; Thomas McCormick; Parviz Kambin; Maurice Smith; Kevin Foley; Bruce McCormick; Daniel Rosenthal</p> <p>Learning Objective: The indications and techniques of percutaneous spinal surgery will be taught through lecture and hands-on laboratory experience using anatomical specimens. The participants will be able to recognize the role of percutaneous spinal techniques in the treatment of patients with spinal disorders. The participants will be able to differentiate the specific clinical applications of this technology.</p>	0 1 7
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0 1 8	<p>Lateral Skull Base Approaches</p> <p>Co-Directors: Chandranath Sen; Donald C. Wright</p> <p>Faculty: Mark B. Eisenberg; Chen Siang; Aklo Morita; Mitesh V. Shah</p> <p>Learning Objective: Lateral skull base approaches will be taught through lecture and hands-on cadaveric experience. The participants will be able to describe the surgical anatomy of several lateral skull base approaches. The participants will be able to recognize the most appropriate approach for various clinical situations.</p>	0 1 8
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Scientific Program

Sunday, October 15, 1995

Afternoon Half Day Course — 1:00 PM — 5:00 PM Moscone Center South
(continued)

0 1 9	Cervical Spine Instrumentation II: Occiput – C2 Learning Objective: The indications, techniques, and complications of both anterior and posterior instrumentation for the upper cervical spine and craniovertebral junction will be reviewed using lecture and hands-on instruction with anatomical models. The participants will be able to recognize the indication for upper cervical and craniovertebral junction instrumentation. The participants will be able to describe the technical application of such instrumentation.	Co-Directors: Curtis A. Dickman; Charles L. Branch, Jr. Faculty: Nevan G. Baldwin; Michael G. Fehlings; Kevin T. Foley; H. Louis Harkey; Stephen M. Papadopoulos; Richard H. Tippets; Richard Assaker	0 1 9
0 2 0	Intracranial Endoscopy Learning Objective: The indications and techniques of intracranial endoscopy will be taught through lecture and hands-on laboratory experience using anatomical models. The participants will be able to identify the current applications of endoscopy in neurological surgery, and state the potential benefits, risks, and pitfalls associated with endoscopic neurosurgery.	Director: Alan Cohen Faculty: Carl B. Heilman; John Frazee; Stephen J. Haines; Shizuo Oi; Axel Pernecky; Gary Rodziewicz; Marion L. Walker; Michael Gaab; Christian Matula	0 2 0
0 2 1	Posterior Circulation Aneurysms Learning Objective: The anatomy and surgical treatment of posterior circulation intracranial aneurysms will be comprehensively reviewed through lectures and video case presentations. The participants will be able to describe the surgical management of posterior circulation intracranial aneurysms.	Director: Thomas A. Kopitnik, Jr. Faculty: Roberto C. Heros; Neil A. Martin; Duke S. Samson	0 2 1
0 2 2	Craniofacial Reconstruction Learning Objective: Current concepts regarding the etiology and surgical management of craniofacial disorders including plating techniques will be represented through lecture and hands-on laboratory experience using anatomical specimens. The participants will be able to describe the etiology and preoperative evaluation of craniofacial disorders. The participants will be able to explain the surgical procedures available for the treatment of craniofacial disorders.	Co-Directors: Philip E. Stieg; Dale M. Swift Faculty: John A. Jane; Richard G. Ellenbogen; Douglas Ousterhout	0 2 2
0 2 3	Stereotactic Radiation Techniques Learning Objective: The principles of current and developing radiation applications in the management of brain tumors, vascular malformations, or functional disorders, as they apply to minimally invasive open stereotactic techniques and to radiosurgery, will be reviewed. The information will be presented through lecture and hands-on exposure to different procedures through the use of stereotactic frame systems, catheters, and computer workstations. The participants will be able to recognize the role of stereotactic radiation in the treatment of patients with brain tumors, vascular malformations, and functional disorders. The participants will be able to differentiate the specific clinical applications of this technology.	Co-Directors: Douglas S. Kondziolka; William A. Friedman Faculty: David Larson; Michael W. McDermott; Eben Alexander III; Robert J. Coffey; Mark A. Bernstein; Allan J. Hamilton	0 2 3
0 2 4	Advanced Techniques in Thoracolumbar Stabilization Learning Objective: The advanced techniques of thoracolumbar deformity correction will be described. The biomechanical principles of construct design for sagittal and coronal plane deformities will be discussed in lecture format. Deformity reconstruction will be practiced using anatomical models. The participants will be able to discuss the biomechanical and technical issues concerning thoracolumbar deformity correction. The participants will be able to describe the clinical application of thoracolumbar instrumentation as it relates to deformity correction.	Co-Directors: Edward C. Benzel; Regis W. Haid, Jr. Faculty: Kevin T. Foley; Eric J. Woodard; Charles B. Stillerman; Randall M. Chesnut; Keith R. Kuhlengel; Parley W. Madsen III; Joseph T. Alexander; Iain H. Kalfas; Nevan G. Baldwin; James P. Hollowell; Noel I. Perin; Jean Paul Steib	0 2 4
0 2 5	Computing in a Neurosurgery Practice Learning Objective: This course is intended for practicing neurosurgeons and residents. The participants will receive individual instruction and interactive participation in an on-site local area network and the Internet. The participants will be able to apply computer technology in clinical and research practice. The participants will develop the ability to compare computer-related products and make more informed purchasing decisions.	Director: Richard Bucholz Faculty: David McKalip, M. Peter Heilbrun, Jamie Henderson, Sam Ciricillo	0 2 5

Monday-at-a-Glance

7:30 AM – 8:00 AM	Coffee in Exhibit Hall	9:45 AM – 10:30 AM	Coffee Break in Exhibit Hall	2:00 PM – 4:30 PM	Exhibit Viewing
7:30 AM – 12:30 PM	Exhibit Viewing	11:15 AM – 12:00 NOON	Presidential Address	2:30 PM – 5:30 PM	Special Course I
8:00 AM – 12:00 NOON	General Scientific Session I	12:00 NOON – 2:30 PM	Luncheon Seminars	2:30 PM – 5:30 PM	Joint Section on Neurotrauma and Critical Care
8:30 AM – 9:00 AM	Honored Guest Presentation	12:00 NOON – 2:30 PM	International Luncheon and Program	2:30 PM – 5:30 PM	Joint Section on Tumors
		12:00 NOON – 2:30 PM	Nurses Luncheon		

Coffee with Exhibitors 7:30 AM – 8:00 AM

8:00 AM – 12:00 NOON

INNOVATIONS IN CRANIAL APPROACHES AND EXPOSURES

Presiding Officer: Ralph G. Dacey, Jr.

Moderator: Griffith R. Harsh IV

Learning Objective: This session is devoted to innovative surgical exposures of the brain and skull base. It is directed toward residents and neurosurgeons in both academic and private practice. The program will describe recently developed surgical exposures for neoplastic and vascular lesions of the brain and skull base. Pathologic anatomy, technical obstacles, and surgical strategies will be discussed. Illustrative cases where the choice of approach is difficult or controversial will be reviewed. Participants will be able to describe the surgical options, identify the potential technical limitations and benefits of each approach, and formulate an algorithm for choice among alternative approaches to brain and skull base lesions.

GENERAL SCIENTIFIC SESSION I

GENERAL SCIENTIFIC SESSION I

8:00 AM – 8:15 AM	Direct Anterior Approaches	Griffith R. Harsh IV
8:15 AM – 8:30 AM	Anterolateral Approaches	Harry Van Loveren
8:30 AM – 9:00 AM	HONORED GUEST PRESENTATION: Cranio-Orbital Approaches	John A. Jane
9:00 AM – 9:15 AM	Temporal Approaches	Steven L. Giannotta
9:15 AM – 9:30 AM	Petrosal Approaches	Robert F. Spetzler
9:30 AM – 9:45 AM	Postero-Lateral Approaches	Chandranath Sen
9:45 AM – 10:30 AM	COFFEE BREAK AND EXHIBITS	
10:30 AM – 11:15 AM	INTERNET PANEL TOKYO— LONDON — CHAPEL HILL	
	CASE PRESENTATIONS/ ALGORITHMS FOR CHOICE OF APPROACH Neoplastic Lesions Vascular Lesions	Laligam Sekhar Arthur L. Day

CNS Exhibit Hours

Monday, Tuesday and Wednesday

7:30 AM – 12:30 PM

2:00 PM – 4:30 PM

RATES:

Please indicate "1" and "2" in the box for your first and second choice of hotels and circle your desired rate. (If first choice is not available, next available rate or hotel will apply.)

Hotel		Single	Double
<input checked="" type="checkbox"/> San Francisco Hilton and Towers Headquarters Hotel	Standard	<u>\$159</u>	\$179
	Superior	\$179	\$199
	Deluxe	\$199	\$219
	Towers	\$224	\$244
<input checked="" type="checkbox"/> Westin St. Francis	Standard-Main Bldg.	\$125	N/A
	Medium-Main Bldg.	<u>\$145</u>	\$145
	Deluxe-Main Bldg.	\$160	\$160
	Tower Building	\$180	\$180
<input type="checkbox"/> The Clift Hotel	Standard	\$179	\$179
	Deluxe	\$199	\$199
<input type="checkbox"/> King George Hotel	Standard	\$102	\$112

Please contact me with information regarding suite availability.

Arrival date/time: Friday, Oct. 13, 1995 - 11:30 AM Departure date: Thursday, Oct 19, 95

1. _____ 2. _____ 3. _____
Name(s) of additional person(s) sharing room

Special room due to disability _____
Please contact me at the above number

Non-smoking room

RESERVATION INFORMATION:

Last name: Thompson First name: John M.
Address: 2000 Blossom Way South

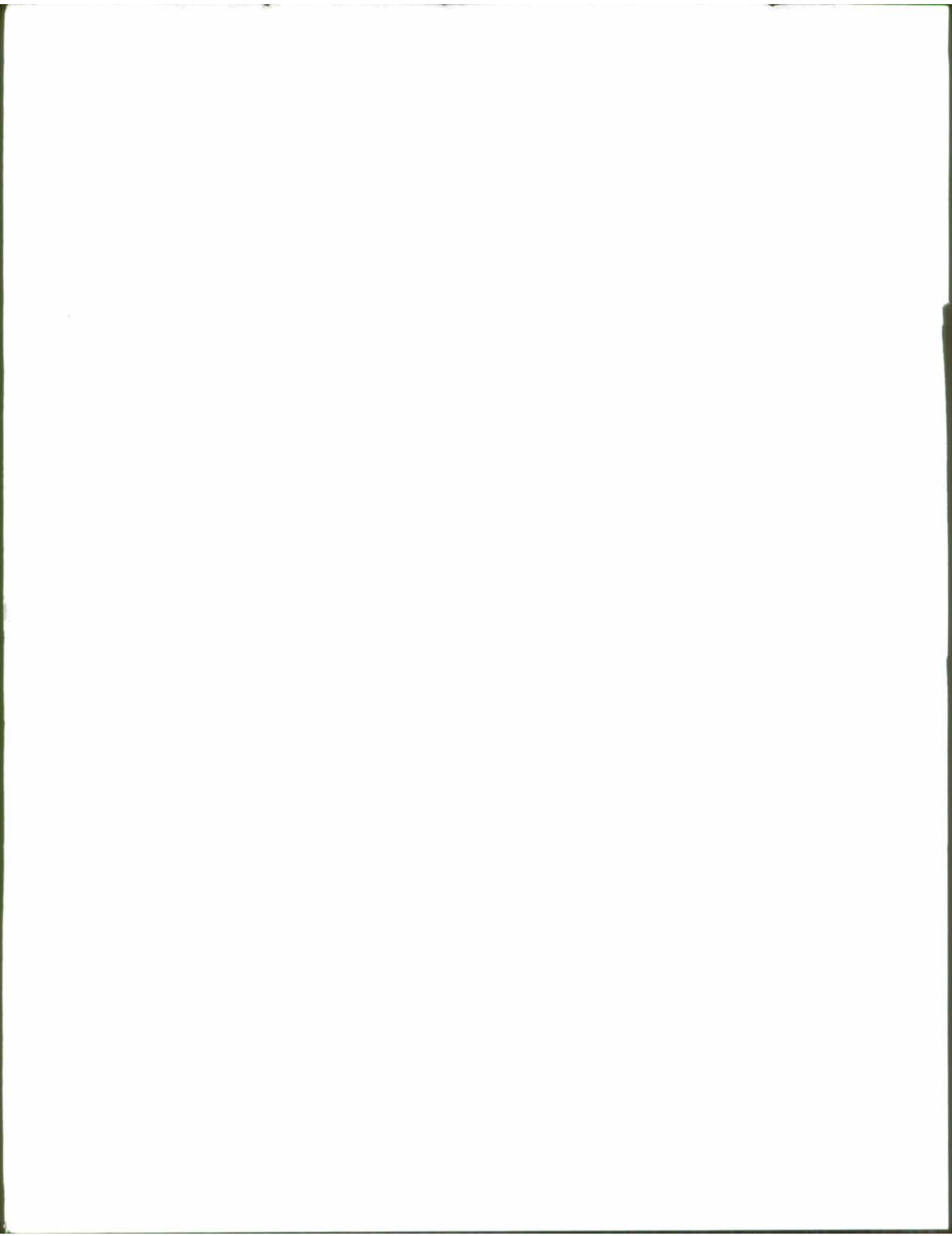
Address: St. Petersburg, Florida 33712-6014 U.S.A
City, State, Zip, Country
Telephone number: 813-8674467 Fax number: _____

GUARANTEE INFORMATION: Please guarantee my room with the following credit card information.

Credit Card - please circle: VISA MASTERCARD AMERICAN EXPRESS

Cardholder's name: John M. Thompson
Card number: 5329 0315 1835 4707 Expiration date: 30 Sep, 97
Cardholder's signature: John M. Thompson

The CNS Housing Bureau will send a reservation acknowledgment. Your assigned hotel will send you a confirmation.



11:15 AM – 12:00 NOON

PRESIDENTIAL ADDRESS

Introduction: Dennis Vollmer
Address: Ralph G. Dacey, Jr.

12:00 NOON – 2:30 PM

LUNCHEON SEMINARS

INTERNATIONAL LUNCHEON AND PROGRAM

Introduction: Raymond Sawaya
Speaker: Alexander Konovalov

Learning Objective: This will be a didactic session featuring the International Guest. Participants will be able to evaluate the presented treatment protocols for intracranial tumors and formulate a diagnostic and surgical approach for a variety of anatomical lesions.

100

100

101/102R

"Consultants Corner" — Cervical Spine

Moderator: Stewart Dunsker
Speakers: Vincent Traynelis; Dennis Vollmer; Iain Kalfas; H. Louis Harkey; Richard Assaker

Learning Objective: The format of this course utilizes case studies. Participants will be able to improve their ability to make differential diagnoses of complicated disorders of the cervical spine based on history, physical exam, and radiological evaluation. Participants will also improve their ability to organize appropriate information for decision making and improve their ability to access treatment alternatives for complicated cervical spine disorders.

101/102R

103/104R

"Consultants Corner" — Cerebrovascular

Moderator: Arthur Day
Speakers: Tomokatsu Hori; H. Hunt Batjer; Roberto C. Heros; Robert Solomon; Ralph G. Dacey, Jr.

Learning Objective: The format of this course utilizes case studies. After this course, participants will be able to improve their ability to make differential diagnoses of complicated cerebral vascular disorders based on history, physical exam, and radiological evaluation. Participants will also be able to improve their ability to organize appropriate information for decision making and improve their ability to access treatment alternatives for complicated cerebrovascular disorders.

103/104R

105/106R

Management of Thoracolumbar Trauma: A Clinical and Biomechanical Perspective

Moderator: Edward C. Benzel
Speakers: Richard Fessler; Russell P. Nockels; Eric Woodard

Learning Objective: This didactic course will be directed toward residents and neurosurgeons in practice as well as interested nurses and physician assistants. After this course, participants will be able to describe thoracolumbar biomechanics, particularly in terms of traumatic mechanisms and instrumentation of the thoracolumbar spine. Participants will also be able to apply biomechanical concepts to specific clinical presentations.

105/106R

107/108R

Complications of Lumbar Disc Surgery

Moderator: Russell Hardy
Speakers: Donlin M. Long; Christopher B. Shields; Robert Goodkin

Learning Objective: This didactic course will be directed toward residents and neurosurgeons in practice as well as interested nurses and physician assistants. After this course, participants will be able to site common and rare complications that are associated with lumbar disc surgery. Participants will also be able to identify methods to prevent complications and to manage them should they occur.

107/108R

109/110R

Management of Occult Vascular Lesions

Moderator: Daniel L. Barrow
Speakers: Chris Ogilvy; Daniele Rigamonti; Joseph M. Zabramski

Learning Objective: This didactic course will be directed toward residents and neurosurgeons in practice as well as interested nurses and physician assistants. After this course, participants will be able to name the various types of occult vascular lesions and describe how they can be detected. The participants will also be able to trace the natural history of these diseases and be able to recommend appropriate treatment modalities.

109/110R

111/112R

Management of Acute Cerebral Ischemia

Moderator: Philip Stieg
Speakers: Warren R. Selman; Larry Dickinson; Fred Meyers

Learning Objective: This didactic course will be directed toward residents and neurosurgeons in practice as well as interested nurses and physician assistants. After this course, participants will be able to recognize various acute cerebral ischemia syndromes and differentiate between treatment options for cerebral ischemia.

111/112R

12:00 NOON – 2:30 PM
LUNCHEON SEMINARS
 (continued)

113/114R	Craniopharyngiomas	Moderator: T. S. Park Speakers: Alexa Canady; Dachling Pang; Robert Sanford	113/114R
	Learning Objective: This didactic course will be directed toward residents and neurosurgeons in practice as well as interested nurses and physician assistants. After this course, participants will be able to describe the clinical presentation of craniopharyngiomas. Participants will also be able to compare and contrast surgical versus radiotherapeutic treatment modalities.		
115/116R	Acoustic Tumors	Moderator: Bruce Mickey Speakers: Steven L. Giannotta; Douglas Kondziolka; Robert Jackler	115/116R
	Learning Objective: This didactic course will be directed toward residents and neurosurgeons in practice as well as interested nurses and physician assistants. After this course, participants will be able to analyze the various treatment alternatives for acoustic tumors. The participants will be able to select a suitable surgical approach for the tumor and prescribe radiosurgery when appropriate.		
117/118R	Treatment of Recurrent Gliomas	Moderator: Mark L. Rosenblum Speakers: Griffith R. Harsh IV; Edward R. Laws, Jr.	117/118R
	Learning Objective: This didactic course will be directed toward residents and neurosurgeons in practice as well as interested nurses and physician assistants. After this course, participants will be able to recognize the presence of recurrent gliomas and outline the therapeutic options available.		
119/120R	New Advances in Head Injury Management	Moderator: Mike Rossner Speakers: Neil Martin; Don Marion; Ross Bullock	119/120R
	Learning Objective: This didactic course will be directed toward residents and neurosurgeons in practice as well as interested nurses and physician assistants. After this course, participants will be able to compare the new treatment approaches for traumatic brain injury and recognize how these modalities can influence functional outcome.		
121/122R	Peripheral Nerve Injury and Entrapment Syndromes	Moderator: David Kline Speakers: Michel Kliot; John McGillicuddy; Bob Tiel	121/122R
	Learning Objective: This didactic course will be directed toward residents and neurosurgeons in practice as well as interested nurses and physician assistants. After this course, participants will be able to describe the signs and symptoms of peripheral nerve entrapment syndromes. The participants will also be able to formulate a plan for surgical management of peripheral nerve entrapment.		
123/124R	Stereotactic Assisted Craniotomy	Moderator: Richard D. Bucholz Speakers: Barton L. Guthrie; Patrick J. Kelly; Donald Ross	123/124R
	Learning Objective: This didactic course will be directed toward residents and neurosurgeons in practice as well as interested nurses and physician assistants. After this course, participants will be able to list the indications for stereotactic assisted craniotomies. The participants will also be able to differentiate the various stereotactic techniques and systems available for cranial application.		
125/126R	Intraoperative MRI and Functional Mapping	Moderator: Mitchel S. Berger Speakers: Keith L. Black; Eben Alexander III; Michael M. Haglund	125/126R
	Learning Objective: This didactic course will be directed toward residents and neurosurgeons in practice as well as interested nurses and physician assistants. After this course, participants will be able to appraise the potential value of intraoperative MRI and will also be able to describe functional mapping of the brain.		
127/128R	Advances in Cranial Neuroendoscopy	Moderator: Marion L. Walker Speakers: Alan R. Cohen; Liliana C. Goumnerova; Joseph Petronio	127/128R
	Learning Objective: This didactic course will be directed toward residents and neurosurgeons in practice as well as interested nurses and physician assistants. After this course, participants will be able to list the indications for cranial neuroendoscopy and will also be able to describe some of the basic tenets in performing neuroendoscopy.		
129/130R	Chiari Malformation	Moderator: W. Jerry Oakes Speakers: Richard G. Ellenbogen; Arnold H. Menezes; Karin M. Muraszko	129/130R
	Learning Objective: This didactic course will be directed toward residents and neurosurgeons in practice as well as interested nurses and physician assistants. The participants will be able to explain the current theories for the development of a syrinx associated with a chiari malformation. The participants will be able to discuss the various treatment options for chiari malformations.		

Scientific Program

Monday, October 16, 1995

12:00 NOON – 2:30 PM LUNCHEON SEMINARS (continued)

✓
131/132R **Management of Shunt Complications** Moderator: Arno H. Fried
Speakers: Philip H. Cogen; Dale M. Swift; Ben Warf 131/132R

Learning Objective: This didactic course will be directed toward residents and neurosurgeons in practice as well as interested nurses and physician assistants. After this course, participants will be able to identify a variety of shunt complications and employ the proper therapy to correct these problems.

133/134R **How To Evaluate a Practice Opportunity** Moderator: Philip W. Tally
Speakers: Joseph C. Maroon; Richard Toselli; Stan Pelofsky 133/134R

Learning Objective: This didactic course will be directed toward residents and neurosurgeons in practice as well as interested nurses and physician assistants. Participants will be able to apply management techniques to patient care issues affecting their practice.

✓
① 135/136R **Historical Topics in Neurosurgery** Moderator: T. Glenn Pait
Speakers: Gail L. Rosseau; Norman H. Horwitz; William C. Bergman 135/136R

Learning Objective: This didactic course will be directed toward residents and neurosurgeons in practice as well as interested nurses and physician assistants. After this course, participants will be able to trace the development of neurosurgery through a review of past events and important contributors to the field of neurosurgery.

137/138R **Neurosurgical Procedures for Pain Relief** Moderator: John Gorecki
Speakers: Samuel Hassenbusch; Liz Bullitt; Richard Penn 137/138R

Learning Objective: This didactic course will be directed toward residents and neurosurgeons in practice as well as interested nurses and physician assistants. After this course, participants will be able to recognize various pain syndromes and will be able to describe neurosurgical procedures designed to relieve the pain experienced in these syndromes.

150 **Spine Update Seminar for Nurses** Moderator: Linda Phillips, R.N., M.S.
Faculty: Bruce McCormack, Russell P. Nockels, Karen March, R.N., M.S., 150

Learning Objectives: This didactic seminar will be directed to neuroscience nurses in practice as well as interested physician assistants and allied health professionals. After this course, participants will be able to recognize the updated information on spine areas of practice. The participants will be provided a forum for networking and learning from allied and other professionals in the neuroscience field.

2:30 PM – 5:30 PM

DEVELOPING A COMPREHENSIVE STROKE CENTER

Moderator: Linda Sternau

Learning Objective: This course will be directed toward residents and neurosurgeons in practice as well as interested nurses and physician assistants. The faculty will describe the components of a "state-of-the-art" clinical and research cerebral vascular program. After this course, participants will be able to appraise the value of a comprehensive programmatic approach and be able to apply their understanding to their clinical practice and/or research protocols.

SPECIAL COURSE I

2:30 PM – 2:50 PM	"Brain Attack"	Paul Camarata
2:50 PM – 3:10 PM	Developing a Community-Based Program	Robert Dempsey
3:10 PM – 3:30 PM	Acute Care, Evaluation and Treatment	Warren Selman
3:30 PM – 3:50 PM	Management of Acute Carotid Occlusion	Roberto Heros
3:50 PM – 4:10 PM	COFFEE BREAK	
4:10 PM – 4:30 PM	Management of Intracerebral Hemorrhage	Joseph Zabramski
4:30 PM – 4:50 PM	Ultra Early Aneurysm Surgery	H. Richard Winn
4:50 PM – 5:30 PM	Case Management	Panel

SPECIAL COURSE I

2:30 PM – 5:30 PM

LIMITS OF SALVAGEABILITY

Moderator: Jack Wilberger

JOINT SECTION ON TRAUMA

JOINT SECTION ON TRAUMA

Learning Objective: This session will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. A 60-minute symposium on the limits of salvageability exploring issues of treating gunshot wounds to the head and severe head injuries and their implications from an ethical, medical/legal, and cost standpoint will be described. This symposium will be followed by an open scientific session in which ten previously unpublished abstracts will be presented and discussed. After this session, participants will be able to assess basic principles by which patients with severe head injury are best managed; and determine appropriate treatment algorithms for severely head injured patients in a setting of limited health care resources.

2:30 PM – 2:45 PM	Gunshot Wounds	Timothy Harrington
2:45 PM – 3:00 PM	Closed Head Injury	Matthew Quigley
3:00 PM – 3:15 PM	Ethical, Medical/Legal, and Cost Considerations	Raj Narayan
3:15 PM – 3:30 PM	PANEL DISCUSSION	Timothy Harrington; Matthew Quigley; Raj Narayan
3:30 PM – 3:50 PM	OPEN SCIENTIFIC SESSION	
3:50 PM – 4:10 PM	COFFEE BREAK	
4:10 PM – 5:30 PM	OPEN SCIENTIFIC SESSION	

2:30 PM – 5:30 PM

TUMORS AND APPROACHES TO THE LATERAL VENTRICLE

Moderator: Bennett M. Stein

JOINT SECTION ON TUMORS

JOINT SECTION ON TUMORS

Learning Objective: This session will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The Joint Section on Tumors will consist of a symposium followed by ten open scientific presentations selected from submitted abstracts. The session will address up-to-date information and options regarding treatment of tumors and approaches to the lateral ventricle. The open scientific presentations will be previously unpublished and will offer participants information and understanding of the latest developments in neurosurgical and neuroscience research. After this session, participants will be able to apply different surgical approaches to tumors involving the lateral ventricle; and describe the advantages, disadvantages, and complications associated with each approach.

2:30 PM – 2:45 PM	Introduction and Overview	Joseph M. Piepmeier
2:45 PM – 3:00 PM	Approaches to the Lateral Ventricle to Include Use of the Ventriculoscope	Alan R. Cohen
3:00 PM – 3:15 PM	Functional Considerations, Pitfalls	Mitchel S. Berger
3:15 PM – 3:30 PM	Moderator's Perspectives, Discussion, Questions	Bennett M. Stein
3:30 PM – 3:50 PM	OPEN SCIENTIFIC SESSION	
3:50 PM – 4:10 PM	COFFEE BREAK	
4:10 PM – 5:30 PM	OPEN SCIENTIFIC SESSION	

You're Invited...

Montreal, Quebec, Canada, 1996

Bonjour!! The 46th Annual Meeting of the Congress of Neurological Surgeons will be held in Montreal, Quebec, Canada. This metropolitan city has a fascinating history that will provide the background for the 1996 Annual Meeting. Stephen J. Haines as President-Elect has plans underway for a superb scientific program. The Auxiliary Board has been working hard to provide a fascinating Social Program. Stephen Papadopoulos will serve as Annual Meeting Chairman and Mitchel Berger will be the Scientific Program Chairman. Gerard Mohr will be Local Arrangements Chairman.

Mark your calendars and plan to attend the 46th Annual Meeting in Montreal, Quebec, September 28–October 3, 1996.

Tuesday-at-a-Glance

7:30 AM – 8:00 AM	Coffee in Exhibit Hall	11:15 AM – 11:25 AM	Convocation	2:00 PM – 4:30 PM	Exhibit Viewing
7:30 AM – 12:30 PM	Exhibit Viewing	11:30 AM – 12:00 NOON	Decade of the Brain Medalist Presentation	2:30 PM – 5:30 PM	Special Course II
8:00 AM – 12:00 NOON	General Scientific Session II	12:00 NOON – 2:30 PM	Luncheon Seminars	2:30 PM – 5:30 PM	Joint Section on Cerebrovascular Surgery
9:00 AM – 9:45 AM	Honored Guest Presentation	12:00 NOON – 2:30 PM	Residents/Honored Guest Luncheon	2:30 PM – 6:30 PM	Joint Section on Pediatric Neurological Surgery
9:45 AM – 10:30 AM	Coffee Break in Exhibit Hall	12:00 NOON – 2:30 PM	Nurses Luncheon		

Coffee with Exhibitors 7:30 AM – 8:00 AM

8:00 AM – 12:00 NOON

INNOVATIONS IN THE TREATMENT OF CONGENITAL CRANIOFACIAL DISORDERS AND SPINAL DYSRAPHISMS

Presiding Officer: Stephen J. Haines

Moderator: Timothy Mapstone

Learning Objective: This session is directed toward residents and neurosurgeons in practice, residents and pediatricians in practice, interested nurses and physician assistants. Didactic presentations by experts in the treatment of craniofacial disorders and tethered spinal cord will discuss current methods of treatment and diagnostic protocols. After this session, participants will be able to associate abnormalities in the development of the skull with clinical syndromes of craniofacial disorders and describe the optimum surgical treatment for each specific disorder. Participants will be able to evaluate the various presentations associated with spinal dysraphisms and contrast the various treatments for different dysraphic syndromes.

GENERAL SCIENTIFIC SESSION II

GENERAL SCIENTIFIC SESSION II

8:00 AM – 8:10 AM	THINK FIRST For KIDS	Jeff Lobosky
8:10 AM – 8:30 AM	"Discoveries and Highlights in 1995" — Pediatric Neurosurgery	Hal Rekate
8:30 AM – 9:00 AM	Craniosynostosis: Molecular Basis, Sutural Pathology, and Clinical Imaging	M. Michael Cohen
9:00 AM – 9:45 AM	HONORED GUEST PRESENTATION Surgical Treatment of Craniofacial Disorders	John A. Jane
9:45 AM – 10:30 AM	COFFEE BREAK/EXHIBITS	
10:30 AM – 10:45 AM	Clinical Evaluation of Cutaneous Lesions of the Back: Spinal Signatures that Don't Go Away	Robin Humphreys
10:45 AM – 11:00 AM	Management of the Tethered Cord Syndrome in Children	W. Jerry Oakes
11:00 AM – 11:15 AM	Management of Tethered Cord Syndrome and Other Spinal Dysraphisms in Adults	David McLone
11:15 AM – 11:25 AM	CONVOCATION	Richard Roski; Ralph G. Dacey, Jr.
11:25 AM – 11:30 AM	INTRODUCTION OF THE DECADE OF THE BRAIN MEDALIST	Ralph G. Dacey, Jr.
11:30 AM – 12:00 NOON	DECADE OF THE BRAIN MEDALIST PRESENTATION	Zach W. Hall

12:00 NOON – 2:30 PM

LUNCHEON SEMINARS

Residents/Honored Guest Luncheon

200

Learning Objective: This will be a didactic session featuring John A. Jane, Honored Guest. Participants will be able to apply knowledge described by the speaker to a variety of cranial and spinal abnormalities. Participants will be able to formulate a diagnostic and treatment paradigm appropriate for the specific clinical presentation and evaluation.

200

12:00 NOON – 2:30 PM LUNCHEON SEMINARS (continued)

201/202R

"Consultants Corner" — Thoraco-Lumbar Spine

Moderator: Stewart Dunsker
Speakers: Edward Benzel; Sanford Larson; Mark Hadley; Edward Dawson; Daniel Rosenthal

201/202R

Learning Objective: The format of this course utilizes case studies. Participants will be able to improve their ability to make differential diagnoses of complicated disorders of the thoraco-lumbar spine, based on history, physical exam, and radiological evaluation. Participants will be able to organize appropriate information for decision making and improve their ability to assess treatment alternatives for complicated thoraco-lumbar spine disorders.

203/204R

"Consultants Corner" — Pediatrics

Moderator: Hal Rekate
Speakers: Bruce Kaufman; Michael Miner; Robin Humphreys; Michael Edwards

203/204R

Learning Objective: This course is directed primarily to general neurosurgeons and residents caring for pediatric patients. A panel of experts in pediatric neurosurgery will describe case management after analyzing the clinical information and formulating a treatment protocol. Participants will be encouraged to bring complicated or confusing cases to be discussed by this panel. Participants will be able to organize appropriate information for decision-making and improve their ability to assess treatment alternatives for neurosurgical conditions affecting children.

205/206R

Cervical Spondylosis: When To Operate and Which Approach

Moderator: Curtis Dickman
Speakers: Gary Rea; Richard Saunders; Charlie Fager

205/206R

Learning Objective: This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. Participants will be able to compare and contrast the different clinical evaluations of cervical spondylosis and conservative and operative treatment options.

207/208R

Cervical Spine Instability and Indications for Instrumentation

Moderator: Volker K.H. Sonntag
Speakers: Noel Perin; Ron Apfelbaum; Iain Kalfas

207/208R

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 identify cervical spinal instability and when instrumentation is indicated for the treatment of this problem.

209/210R

Monitoring in Spinal Surgery

Moderator: Sean Grady
Speakers: Michael Fehlings; Ken Follett; Chris Shaffrey

209/210R

Learning Objective: This course will be directed toward residents and neurosurgeons in practice, with a focus on spine surgery. The participants will be able to describe strategies for intraoperative spinal monitoring, including sensory evoked potentials, motor evoked potentials, and EMGs. The appropriate utilization of this technology will be discussed with regards to surgery for both trauma and degenerative disease. Participants will be able to analyze the applicability of this technology for their clinical practice.

211/212R

Advances in Critical Care Management of Subarachnoid Hemorrhage

Moderator: Neil Martin
Speakers: Max Findlay; Dave Newell; Winfield S. Fisher; Larry Dickinson

211/212R

Learning Objective: This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The latest advances in critical care management of subarachnoid hemorrhage will be discussed. These advances are directed toward maintaining proper cerebral perfusion, minimizing vasospasm, and preventing recurrent hemorrhage. Participants will be able to analyze the applicability of these methods for their clinical practice.

213/214R

Treatment of Arteriovenous Malformations

Moderator: Arthur L. Day
Speakers: Dade Lunsford; Bennett Stein; Randall Higashida

213/214R

Learning Objective: This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The participants will evaluate and treat intracranial arteriovenous malformations. The treatments will include operative interventions, the role of endovascular interventions, and radiosurgical techniques. Participants will be able to apply knowledge to diagnose and formulate treatment protocols for arteriovenous malformations.

215/216R

Giant Aneurysms

Moderator: H. Richard Winn
Speakers: H. Hunt Batjer; Chris Dowd; Gary Steinberg

215/216R

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 available techniques for management of giant aneurysms. These techniques will include operative treatment and endovascular therapies. Participants will be able to formulate treatment strategies for the diagnosis and treatment of giant aneurysms.

Scientific Program

Tuesday, October 17, 1995

12:00 NOON – 2:30 PM LUNCHEON SEMINARS (continued)

217/218R

Posterior Circulation Aneurysms

Moderator: Roberto C. Heros
Speakers: Duke S. Samson; Stanley Barnwell; Steven Giannotta; Tomokatsu Hori

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 available techniques for management of posterior circulation aneurysms. These techniques will include operative treatment and endovascular therapies. Participants will be able to formulate treatment strategies for the diagnosis and treatment of posterior circulation aneurysms.

217/218R

219/220R

Controversies in Pituitary Surgery

Moderator: William Couldwell
Speakers: David Baskin; William Chandler; Julius Goodman

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 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. Participants will be able to classify lesions of the pituitary region and formulate diagnostic and treatment methods.

219/220R

221/222R

Brain Metastasis — Treatment Options

Moderator: Griffith R. Harsh IV
Speakers: Eben Alexander III; Ray Sawaya; Robert Fenstermaker

Learning Objective: This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The faculty will discuss and analyze the various treatment modalities available for metastatic lesions to the brain. These treatments will include surgical excision, stereotactic radiosurgery, and implanted radiation therapy. Participants will be able to analyze treatment modalities and classify tumor types.

221/222R

223/224R

Contemporary Treatment of Spinal Cord Injury

Moderator: Charles Tator
Speakers: Jack Wilberger; Barth Green; Wise Young

Learning Objective: This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The faculty will discuss and interpret the advances in the treatment of spinal cord injury. These advances include both new pharmacological treatment as well as surgical protocols. Participants will be able to differentiate specific injury patterns, appropriate treatment, and outcomes for spinal cord injury.

223/224R

225/226R

Critical Care Management of the Head Injured Patient

Moderator: Howard Eisenberg
Speakers: Paul Muizelaar; Peter Le Roux; Randall Chesnut

Learning Objective: This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The faculty will describe and illustrate the state-of-the-art critical care management of patients with head injury. Participants will be able to analyze treatment methodology and formulate appropriate protocols in the treatment of the head injured patient.

225/226R

227/228R

Trigeminal Neuralgia

Moderator: Jeffrey Brown
Speakers: Kim Burchiel; Robert H. Wilkins; Ed Tarlov

Learning Objective: This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. Participants will learn how to differentiate trigeminal neuralgia from other facial pain syndromes and the indications for medical neurosurgical treatment of trigeminal neuralgia. Current techniques for surgical treatment to be discussed include: microvascular decompression, partial sensory rhizotomy, radio frequency thermal coagulation, glycerol rhizolysis, and percutaneous balloon compression. Participants will be able to evaluate treatment options for the patient with primary trigeminal neuralgia recurrence.

227/228R

229/230R

Epilepsy Surgery in the Adult Population

Moderator: Dennis Spencer
Speakers: Youssef G. Comair; Nick Barbaro; Webster Pilcher

Learning Objective: The purpose of this seminar will be to explore the practical applications of new advances in evaluating patients with medically intractable seizures. The faculty will examine controversies such as the appropriate epileptogenic volume for resection and the type of operation employed in the adult population. Participants will be able to classify methods of surgical treatment for epilepsy.

229/230R

231/232R

Techniques in Stereotactic Biopsy and Craniotomy

Moderator: Barton L. Guthrie
Speakers: Donald Ross; Robert Maciunas; Matthew A. Howard III

Learning Objective: This course will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The seminar will discuss indications for the use of stereotactic technology and description of the operative techniques. Clinically-defined and outcome-based indications for diagnostic stereotactic biopsy will be classified. Participants will be able to describe operative technique for image-based stereotactic biopsy and operative technique for image-based (stereotactic) craniotomy.

231/232R

12:00 NOON – 2:30 PM LUNCHEON SEMINARS (continued)

Managed Competition: Moderator: Lyal G. Leibrock
What's Ahead for Private Practice and Academia Speakers: Sidney Tolchin; Richard Roski; 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 faculty will discuss and analyze the current state of managed competition. The participants will be able to examine the future of health care from a neurosurgical perspective for private practice and academia.

233/234R

233/234R

Current Management of Spasticity Moderator: Bruce Storrs
 Speakers: T. S. Park; Richard D. Penn; Paul Steinbok; Ted Roberts

Learning Objective: This session is directed toward practicing neurosurgeons and neurosurgeons in training, as well as other health care professionals. The course will describe an overview of the pathophysiology of spasticity, physical diagnosis and treatment. A historical overview of treatment of spasticity will be provided and current treatment options will be presented. The participants will be able to describe the historical perspective of the treatment of spasticity and apply modern medical and surgical modalities to this problem.

235/236R

235/236R

Thoracic Outlet Syndrome Moderator: John E. McGillicuddy
 Speakers: Dachling Pang; Michel Kliot; Kevin Lillehei; Eric Zager

Learning Objective: This session on thoracic outlet syndrome will describe the varied etiologies of the syndrome, the diagnostic findings and special tests used to evaluate the syndrome, and the therapeutic modalities available for its treatment. The participants will be able to select appropriate surgical modalities based on the cause of the thoracic outlet syndrome.

237/238R

237/238R

Pediatric Neurosurgery Nurses Seminar Moderator: Siobhan Geary, R.N., M.S.
 Faculty: Sam Ciricillo, Siobhan Geary, R.N., M.S.; Tricia Murphy, R.N., M.S.

Learning Objective: This didactic seminar will be directed to neuroscience nurses in practice as well as interested physician assistants and allied health professionals. After this course, participants will be able to recognize the updated information on pediatric areas of practice. The participants will be provided a forum for networking and learning from allied and other professionals in the neuroscience field.

250

250

2:30 PM – 5:30 PM

COMPUTERS FOR NEUROSURGEONS "MADE EASY"

Moderators: William Friedman; Richard Toselli

Learning Objective: This course is directed toward practicing neurosurgeons and neurosurgeons in training, as well as other health care professionals. Computer applications for the clinical neurosurgeon will be described and demonstrated. Participants will be able to access "Neurosurgery On-Line," the Internet, E-mail, and perform a literature search. Participants will be able to organize an information system to assist in direct management of patient care.

SPECIAL COURSE II

SPECIAL COURSE II

2:30 PM – 2:50 PM	Report of the Joint AANS/CNS Task Force on Computer Applications in Neurosurgery — "Neurosurgery On-Line"	Stephen J. Haines
2:50 PM – 3:10 PM	The Internet and How To Use It — "Surfin' the Net"	Richard Toselli
3:10 PM – 3:30 PM	Computers for "Painless" Continuing Education	William Friedman
3:30 PM – 3:50 PM	The "Paperless" Medical Record	Pat Jacob
3:50 PM – 4:10 PM	COFFEE BREAK	
4:10 PM – 4:30 PM	Computers and Critical Care	Larry Dickinson
4:30 PM – 4:50 PM	"Telepresence"	John Frazee
4:50 PM – 5:30 PM	INTERACTIVE FORUM AND SOFTWARE DEMONSTRATION Demonstration of Real Time Internet Communication	Faculty

2:30 PM – 5:30 PM

CAVERNOUS MALFORMATIONS — AN UPDATE

Moderators: Joseph Zabramski; L. Nick Hopkins

Learning Objective: The Joint Section of Cerebrovascular Disease session will be directed toward practicing neurosurgeons and residents in training, as well as other health professionals interested in the management of patients with cerebrovascular disease. The invited faculty will address current information and issues regarding the etiology, natural history, and management of patients with cavernous malformations of the central nervous system. The second portion of the program will consist of ten open scientific presentations selected from submitted abstracts. These presentations will cover previously unpublished data on the latest developments in neurosurgical and neuroscience research. After this session, participants will be able to determine the natural history and pathological aspects of cavernous malformations and optimize treatment strategies based upon this information.

2:30 PM – 2:45 PM	Pathology and Lesion Biology	Issam A. Awad
2:45 PM – 3:00 PM	Natural History and Genetics	Joseph Zabramski
3:00 PM – 3:15 PM	Surgical Management: Indications, Approaches, and Outcomes	Robert Ojemann
3:15 PM – 3:30 PM	PANEL DISCUSSION	Issam A. Awad; Joseph Zabramski; Robert Ojemann
3:30 PM – 3:50 PM	OPEN SCIENTIFIC SESSION	
3:50 PM – 4:10 PM	COFFEE BREAK	
4:10 PM – 5:30 PM	OPEN SCIENTIFIC SESSION	

JOINT SECTION ON CEREBROVASCULAR SURGERY

JOINT SECTION ON CEREBROVASCULAR SURGERY

2:30 PM – 6:30 PM

SYMPOSIUM ON HYDROCEPHALUS

Moderators: Timothy Mapstone; Arthur Marlin

Learning Objective: This session will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. The Joint Section on Pediatric Neurological Surgery will consist of a symposium followed by six open scientific presentations selected from submitted abstracts. The session will address current developments and contemporary treatment of hydrocephalus. The open scientific presentations will be previously unpublished and will offer information on the latest developments in neurosurgical and neuroscience research. After this session, participants will be able to differentiate various causes of ventricular enlargement and utilize new advances in technology to manage these difficult cases.

2:30 PM – 2:50 PM	To Treat or Not To Treat? Ventriculomegaly Versus Hydrocephalus	J. H. Piatt
2:50 PM – 3:10 PM	Neuroendoscopy in the Management of Hydrocephalus	Marion L. Walker
3:10 PM – 3:30 PM	Long-Term Management Issues in the Child with Shunted Hydrocephalus	R. Michael Scott
3:30 PM – 3:50 PM	Non-Surgical Evaluation of Shunt Function — Rhyme or Reason	Bruce Kaufman
3:50 PM – 4:10 PM	COFFEE BREAK	
4:10 PM – 4:30 PM	Current Management Issues in the Child with Post-Hemorrhagic Hydrocephalus	James M. Drake
4:30 PM – 5:30 PM	OPEN SCIENTIFIC SESSION	
5:30 PM – 6:30 PM	RECEPTION Hosted by the American Academy of Pediatrics Section on Neurology	

JOINT SECTION ON PEDIATRIC NEUROLOGICAL SURGERY

JOINT SECTION ON PEDIATRIC NEUROLOGICAL SURGERY

Wednesday-at-a-Glance

7:30 AM – 8:00 AM	Coffee in Exhibit Hall	10:50 AM – 11:20 AM	Honored Guest Presentation	2:30 PM – 5:30 PM	Joint Section on Spine and Peripheral Nerves
7:30 AM – 12:30 PM	Exhibit Viewing	12:00 NOON – 2:30 PM	Luncheon Seminars	2:30 PM – 5:30 PM	Joint Section on Stereotactic and Functional Neurosurgery
8:00 AM – 12:00 NOON	General Scientific Session III	12:00 NOON – 2:30 PM	Nurses Luncheon	2:30 PM – 5:30 PM	Joint Section on Pain
9:45 AM – 10:30 AM	Coffee Break in Exhibit Hall	2:00 PM – 4:30 PM	Exhibit Viewing		
		2:30 PM – 5:30 PM	Special Course III		

Coffee with Exhibitors 7:30 AM – 8:00 AM

8:00 AM – 12:00 NOON

INNOVATIONS IN THE TREATMENT OF LUMBAR DISC DISEASE: CURRENT TRENDS IN MANAGEMENT

Presiding Officer: Daniel L. Barrow

Moderator: Dennis Vollmer

Learning Objective: This session will be directed toward residents and neurosurgeons in practice, as well as interested nurses and physician assistants. Anatomical principles involved in the performance of the various surgical techniques will be reviewed by the faculty. The information presented will be through lecture and panel discussions of individual clinical cases. The participants will be able to analyze the available treatment options for the management of lumbar disc disease and interpret data regarding the outcome, efficacy, and risks of the various procedures.

GENERAL SCIENTIFIC SESSION III

GENERAL SCIENTIFIC SESSION III

8:00 AM – 8:15 AM	Breakthroughs in Neurosurgery	TBA
8:15 AM – 8:25 AM	CNS Resident Award Paper	TBA
8:25 AM – 8:45 AM	Conventional Discectomy Techniques: The Gold Standard	Volker K.H. Sonntag
8:45 AM – 9:05 AM	Is There a Future for Percutaneous Intradiscal Therapy?	Joseph Maroon
9:05 AM – 9:25 AM	Foraminotomy, Facetectomy, Far Lateral Discs, Open Extraforaminal Approaches	Dennis Vollmer
9:25 AM – 9:45 AM	The Case for PLIF	Charles L. Branch
9:45 AM – 10:30 AM	COFFEE BREAK/EXHIBITS	
10:30 AM – 10:50 AM	Spinal Instrumentation Has Enhanced Our Results in Degenerative Disease of the Lumbar Spine	Richard Fessler
10:50 AM – 11:20 AM	HONORED GUEST PRESENTATION Surgical Observations on Lumbar Degenerative Disease: A 30-Year Perspective	John A. Jane
11:20 AM – 12:00 NOON	INTERNET PANEL: TOKYO — LONDON — CHAPEL HILL Panel Discussion/Cases	Moderator: Stewart Dunsker Panel

12:00 NOON – 2:30 PM

LUNCHEON SEMINARS

301/302R

"Consultant's Corner" — Trauma

Moderator: Raj Narayan
Speakers: Randall Chesnut; Thomas Gennarelli; Julio Cruz; Harold Young

301/302R

Learning Objective: The format of this course utilizes case studies. Participants will be able to improve their ability to make differential diagnoses and treatment plans in trauma patients, based on history, physical exam, and radiological evaluation. Participants will also improve their ability to organize appropriate information for decision making and improve their ability to access treatment alternatives for trauma.

303/304R

"Consultant's Corner" — Tumor

Moderator: William Chandler
Speakers: Alexander Konovalov; Dan Silbergeld; L. Dade Lunsford; Mitchel S. Berger

303/304R

Learning Objective: The format of this course utilizes case studies. Participants will be able to improve their ability to make differential diagnoses of complicated cranial tumors, based on history, physical exam, and radiological evaluation. Participants will also improve their ability to organize appropriate information for decision making and assess treatment alternatives for cranial tumors.

Scientific Program

Wednesday, October 18, 1995

12:00 NOON – 2:30 PM LUNCHEON SEMINARS (continued)

305/306R

Percutaneous Lumbar Techniques

Moderator: Stephen Haines
Speakers: Richard G. Fessler; Kevin T. Foley; Stephen Ondra

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

305/306R

307/308R

Degenerative Lumbar Instability

Moderator: Philip Weinstein
Speakers: Regis Haid; Jim Hollowell; 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 participants will be able to identify degenerative lumbar instability and develop treatment strategies. Both conservative and operative therapeutic modalities will be discussed.

307/308R

309/310R

Operative Management of Lumbar Stenosis

Moderator: Robert Goodkin
Speakers: Frances K. Conley; Thomas B. Ducker; Charles B. Stillerman

Learning Objective: Techniques and indications for operative and non-operative treatment of lumbar stenosis will be discussed. The participants will be able to develop diagnostic and treatment decisions in clinical practice.

309/310R

311/312R

Management of Occipital-Cervical Pathology

Moderator: Arnold Menezes
Speakers: Dennis McDonnell; Volker K.H. Sonntag; H. Louis Harkey

Learning Objective: The faculty will discuss occipito-cervical ligamentous and bony anatomy, rheumatoid occipito-cervical disease, tumors at foramen magnum, and surgical approaches and stabilization of the occipito-cervical junction. Participants will be able to classify occipital-cervical pathology and develop an appropriate therapeutic treatment plan.

311/312R

313/314R

Technical Adjuncts During Carotid Endarterectomy

Moderator: Robert Ratcheson
Speakers: David Newell; Fredric B. Meyer; Christopher Wallace

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 describe various techniques used to improve the safety of carotid endarterectomy including arteriotomy, monitoring, anesthetic choice, and patch material selection.

313/314R

315/316R

The Role of Endovascular Therapy in the Management of Aneurysms

Moderator: L. N. Hopkins
Speakers: Duke S. Samson; Howard Yonas; Randall Higashida

Learning Objective: This course will be directed toward residents and neurosurgeons in practice, as well as nurses and physician assistants. The participants will be able to differentiate which aneurysms are amenable to endovascular therapy. The results and complications will be reviewed.

315/316R

317/318R

Anterior Circulation Aneurysms

Moderator: Ralph G. Dacey, Jr.
Speakers: Bryce Weir; Issam Awad; Van Halbach

Learning Objective: The course will be directed toward residents and neurosurgeons in practice. The faculty will discuss specific operative techniques for the management of anterior circulation aneurysms including establishment of proximal control, the use of temporary clips and cerebral protection, use of intraoperative angiography, the strategies to deal with intraoperative thrombus and calcification of the wall of the aneurysm, and strategies for approaching giant aneurysms. The participants will be able to formulate treatment strategies for the diagnosis and treatment of anterior circulation aneurysms.

317/318R

319/320R

Building a "Carotid Artery Disease" Practice

Moderator: Warren Selman
Speakers: Bob Harbaugh; Pat McCormick; Robert Dempsey

Learning Objective: This course will be directed toward neurosurgical residents, neurosurgeons in practice, and allied health care professionals. The participants will learn of the advances in the diagnosis of carotid stenosis, and the indications for carotid endarterectomy. The faculty will discuss how to convey this information, and the role of the neurosurgeon in managing carotid stenosis to primary care physicians. The participants will be able to describe the role of a comprehensive cerebrovascular center in building a carotid endarterectomy practice.

319/320R

12:00 NOON – 2:30 PM LUNCHEON SEMINARS (continued)

321/322R

Orbital Tumors

Moderator: Donlin Long
Speakers: Joseph Maroon; Werner Hassler; Linda Sternau

Learning Objective: The participants will be able to recognize common clinical syndromes manifested by orbital tumors, understand appropriate imaging studies, develop differential diagnosis of orbital tumors, and appropriate surgical therapy of orbital tumors. The surgical therapy will emphasize the actual surgical techniques required for different tumors, goals of treatment, and outcome of therapy.

321/322R

323/324R

Management of Clival Lesions

Moderator: Philip H. Gutin
Speakers: Keith L. Black; John Tew; Vincent C. Traynelis

Learning Objective: This course will be directed toward residents and neurosurgeons in practice. The participants will be able to evaluate tumors of the clivus for treatment with surgery and radiation therapy. The differential diagnosis of clival tumors will be considered, and the surgical approaches to lesions of the anterior and posterior skull base will be discussed in detail.

323/324R

325/326R

Intraoperative Guidance Systems in Neurosurgery

Moderator: Iain Kalfas
Speakers: Robert Maciunas; John Adler; Richard Bucholz

Learning Objective: This didactic course will be directed toward residents and neurosurgeons in practice as well as interested nurses and physician assistants. New applications for intraoperative guidance systems in neurosurgery will be covered. The participants will be able to differentiate the various stereotactic techniques and systems available for intraoperative guidance.

325/326R

327/328R

Board Preparation: Problems w/Patient Care Management

Moderator: Howard H. Kaufman
Speakers: Richard Saunders; Franklin C. Wagner, Jr.; Austin R. Colohan

Learning Objective: This didactic course will be directed toward residents and neurosurgeons in practice as well as interested nurses and physician assistants. Participants will be able to approach clinical problems in neurosurgery using logical and appropriate management strategies similar to those employed in the oral board format.

327/328R

329/330R

Epilepsy Surgery in Children

Moderator: T. S. Park
Speakers: Frederick A. Boop; Joseph Madsen; Glenn Morrison

Learning Objective: This didactic course will be directed toward residents and neurosurgeons in practice as well as interested nurses and physician assistants. The participants will be able to recognize pediatric patients who will benefit from epilepsy surgery. The faculty will describe the surgical options that are available.

329/330R

331/332R

Pediatric Spinal Cord Injuries

Moderator: Dachling Pang
Speakers: Harold Rekeate; Mark Hadley; Robert Dauser

Learning Objective: This didactic course will be directed toward residents and neurosurgeons in practice as well as interested nurses and physician assistants. The types of spinal cord injuries seen in children and specific treatment methods will be discussed. After this course, the participants will be able to describe treatment modalities for pediatric spinal cord injuries.

331/332R

333/334R

Management of Tethered Cord

Moderator: Gordon McLone
Speakers: W. Jerry Oakes; Timothy Mapstone; Charles Teo

Learning Objective: This didactic course will be directed toward residents and neurosurgeons in practice as well as interested nurses and physician assistants. Faculty will describe the clinical presentation of tethered cord syndrome. The participants will be able to recommend the preferred treatment course and treatment options.

333/334R

335/336R

Book Collecting in Neurosurgery

Moderator: James Goodrich
Panelists: Eugene Flamm; Robert Wilkins; D.J. Canale

Learning Objective: This didactic course will be directed toward residents and neurosurgeons in practice as well as interested nurses and physician assistants. Participants will be able to explain the esthetic value of neurosurgical literature and recognize important books in the history of neurosurgery. CME credit will not be given for this seminar.

335/336R

Neurovascular Nurses Seminar

Moderator: Sharon Lamb, R.N.
Faculty: Kathy J. Finch, R.N., M.S., FNP, Karen March, R.N., M.S., Daryl Gress, Claude Hemphill

350

350

Learning Objective: This didactic seminar will be directed to neuroscience nurses in practice as well as interested physician assistants and allied health professionals. After this course, participants will be able to recognize the updated information on vascular areas of practice and stroke management. The participants will be provided with a forum for networking and learning from allied and other professionals in the neuroscience field.

2:30 PM – 5:30 PM

MANAGEMENT GUIDELINES FOR SEVERE HEAD INJURY — BLESSING OR CURSE?

Moderator: Lawrence Pitts

Learning Objective: This course will describe the recently developed treatment guidelines for head trauma. The process of guideline development will be discussed in general and in particular with respect to head trauma. Participants will be able to analyze information and formulate a protocol for patient management of head injury.

SPECIAL COURSE III

SPECIAL COURSE III

2:30 PM – 2:45 PM	The Guidelines Movement	Beverly Walters
2:45 PM – 2:55 PM	Practice Profile Questionnaires	Randall Chesnut
2:55 PM – 3:05 PM	How Guidelines for Head Injury Were Developed	Raj Narayan
3:05 PM – 3:20 PM	Indications for ICP Monitoring in the Head Injured Patient	Raj Narayan
3:20 PM – 3:35 PM	ICP Monitoring Technology	Jam Ghajar
3:35 PM – 3:50 PM	Hyperventilation	Donald Marion
3:50 PM – 4:10 PM	COFFEE BREAK	
4:10 PM – 4:25 PM	Mannitol	Donald Marion
4:25 PM – 4:40 PM	Barbiturates	Jack Wilberger
4:40 PM – 4:55 PM	Steroids and Anticonvulsants	David Newell
4:55 PM – 5:10 PM	Medico-Legal Implications	Russell Pelton
5:10 PM – 5:30 PM	Practice Profile Questionnaire	Randall Chesnut

2:30 PM – 5:30 PM

THE RULES AND REGULATIONS OF SPINE SURGERY

Moderators: David Cahill; Arnold Menezes

Learning Objective: This session 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 ten open scientific presentations selected from submitted abstracts. The symposium will discuss current issues regarding the medico-legal aspects of spinal surgery. The open scientific presentations will be previously unpublished and will offer information on the latest developments in neurosurgical and neuroscience research. After this session, participants will be able to interpret regulations that routinely affect the management of patients with spinal diseases.

JOINT SECTION ON SPINE AND PERIPHERAL NERVES

JOINT SECTION ON SPINE AND PERIPHERAL NERVES

2:30 PM – 2:45 PM	The FDA Regulations for Spine Surgeons	Martin Yahiro
2:45 PM – 3:00 PM	Regulations and the Industry	Rick Treehorn
3:00 PM – 3:15 PM	Regulation of Research and Practice in the Care of Spinal Disease	John Brantigan
3:15 PM – 3:30 PM	Practicing Spine Surgeon and the Lawyer	Ben Blackett
3:30 PM – 3:50 PM	OPEN SCIENTIFIC SESSION	
3:50 PM – 4:10 PM	COFFEE BREAK	
4:10 PM – 5:30 PM	OPEN SCIENTIFIC SESSION	

2:30 PM – 5:30 PM

MRI STEREOTACTIC SURGERY: THE GOOD, THE BAD, AND THE UGLY

Moderators: L. Dade Lunsford; David Roberts

Learning Objective: This session 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 ten open scientific presentations selected from submitted abstracts. The session will review and update current knowledge regarding the use of MRI during stereotactic surgery. The open scientific presentations will be previously unpublished and will offer information on the latest developments in neurosurgical and neuroscience research. After this session, participants will be able to contrast the experience at three major centers using MRI stereotactic surgery to treat a variety of functional disorders.

2:30 PM – 2:45 PM	University of Pittsburgh Experience	Douglas Kondziolka
2:45 PM – 3:00 PM	Vanderbilt Experience	Robert Maciunas
3:00 PM – 3:15 PM	NYU Experience	Patrick J. Kelly
3:15 PM – 3:30 PM	PANEL DISCUSSION	Douglas Kondziolka; Robert Maciunas; Patrick J. Kelly
3:30 PM – 3:50 PM	OPEN SCIENTIFIC SESSION	
3:50 PM – 4:10 PM	COFFEE BREAK	
4:10 PM – 5:30 PM	OPEN SCIENTIFIC SESSION	

JOINT SECTION ON STEREOTACTIC AND FUNCTIONAL NEUROSURGERY

JOINT SECTION ON STEREOTACTIC AND FUNCTIONAL NEUROSURGERY

2:30 PM – 5:30 PM

PAIN MEDICINE AND NEUROSURGERY

Moderator: Richard North

Learning Objective: The session will be directed toward participating neurosurgeons and residents in training, as well as other health professionals interested in the management of patients with pain syndromes. The program will consist of two sections. An invited portion will discuss current issues regarding the changing role of the neurosurgeon in control of pain, neurosurgical training in pain medicine, and certification in pain treatment. The second portion of the program will consist of ten open scientific presentations selected from submitted abstracts. These presentations will cover previously unpublished data and will offer information on the latest developments in neurosurgical and neuroscience research. After this session, participants will be able to discuss the role of the neurosurgeon in treating patients with chronic pain and the various issues involved in training and certification.

2:30 PM – 2:45 PM	The Neurosurgeon's Changing Role in Pain Medicine	Donlin M. Long
2:45 PM – 3:00 PM	Neurosurgical Training in Pain Medicine	Kim J. Burchiel
3:00 PM – 3:15 PM	Certification in Pain Medicine	Philip M. Lippe
3:15 PM – 3:30 PM	PANEL DISCUSSION	Donlin M. Long; Kim J. Burchiel; Philip M. Lippe
3:30 PM – 3:50 PM	OPEN SCIENTIFIC SESSION	
3:50 PM – 4:10 PM	COFFEE BREAK	
4:10 PM – 5:30 PM	OPEN SCIENTIFIC SESSION	

JOINT SECTION ON PAIN

JOINT SECTION ON PAIN

CNS Shuttle Service

Saturday	1:00 PM – 7:30 PM
Sunday	6:45 AM – 7:00 PM
Opening Reception at SFMOMA	6:45 AM – 9:15 PM
Monday	6:45 AM – 6:00 PM
Tuesday	6:45 AM – 6:45 PM
*Wednesday	6:45 AM – 6:00 PM
Thursday	7:15 AM – 12:30 PM

* Shuttle Service will be available from Moscone Center South and official CNS hotels to the Wine-Tasting Reception at the San Francisco Hilton, Wednesday from 6:00 PM – 7:30 PM

Thursday-at-a-Glance

8:00 AM – 12:00 NOON

General Scientific
Session IV

10:00 AM – 10:20 AM

Coffee Break

8:00 AM – 12:00 NOON

INNOVATIONS IN MINIMALISM

Presiding Officer: William A. Friedman

Moderator: Issam A. Awad

Learning Objective: This session will describe innovative surgical minimalism techniques and technology. Methods in decreasing morbidity and mortality, and improving outcome of neurosurgical procedures will be discussed. After this session, participants will be able to recognize strategies of minimalism and specific methods of assessing outcomes of minimalistic interventions; and will be able to evaluate, adopt, or discard emerging technology based on scientific principles and clinical evaluation.

GENERAL SCIENTIFIC SESSION IV

GENERAL SCIENTIFIC SESSION IV

8:00 AM – 8:20 AM	Emerging Technology — Methods of Clinical Assessment	Issam A. Awad
8:20 AM – 8:40 AM	Minimalism Through Stereotaxy	Donald Ross
8:40 AM – 9:00 AM	Minimalism Through Mapping	Mitchel S. Berger
9:00 AM – 9:20 AM	Interoperative MRI	Eben Alexander III
9:20 AM – 9:40 AM	Intraoperative Cranial Navigation	Robert Maciunas
9:40 AM – 10:00 AM	Magnetic Stereotaxis	Matthew Howard
10:00 AM – 10:20 AM	COFFEE BREAK	
10:20 AM – 10:40 AM	Endoscopic Interventricular Surgery	Alan Cohen
10:40 AM – 11:00 AM	Endoscopic Pituitary Surgery	Linda Sternau
11:00 AM – 11:20 AM	Thoracoscopic Spinal Surgery	Curtis Dickman
11:20 AM – 11:40 AM	Intraoperative Spinal Navigation	Kevin Foley
11:40 AM – 12:00 NOON	Percutaneous Fusion Techniques	Richard Fessler

CNS REGISTRATION HOURS

Saturday	2:00 PM – 7:00 PM
Sunday	7:00 AM – 5:30 PM
Monday	7:00 AM – 5:30 PM
Tuesday	7:00 AM – 5:30 PM
Wednesday	7:00 AM – 5:30 PM
Thursday	7:30 AM – 12:00 PM

Auxiliary News

We hope you will make plans to attend the 45th Annual Meeting of the Congress of Neurological Surgeons in San Francisco, California from Saturday, October 14 to Thursday, October 19. The meeting will be held at Moscone Center South. Shuttle service will connect the official meeting hotels to Moscone Center South.

The Opening Reception will be held at the San Francisco Museum of Modern Art. This beautiful museum has recently opened and houses a large collection of art. Tours have also been specially selected to enable you to experience all that the city and area have to offer.

The Auxiliary Educational Program will feature Debra Waterhouse who will speak on nutrition. Following the program, an Auxiliary Lunch at the California Culinary Academy will offer a cooking demonstration with lunch.

We have planned an exciting program for you in San Francisco. Please join us in experiencing all of the diversity that San Francisco has to offer.

About the President...

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.



30

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



The Dacey family from left to right: Ralph III, Corinne, Dr. Ralph Dacey and Elizabeth.

Saturday, October 14, 1995

501

FIOR D'ITALIA AND BEACH BLANKET BABYLON - \$103.00

5:00 PM - 9:00 PM

Enjoy dinner at Ristorante Fior D'Italia, America's Oldest Italian Restaurant. It has proudly served citizens and visitors to San Francisco since 1886. Specializing in Northern Italian Cuisine and Old World Hospitality, "The Fior" has become a San Francisco Tradition. Later, walk to Club Fugazi where Beach Blanket Babylon is playing. This outrageous and delightful performance overflows with zany humor and San Francisco's indigenous spirit. The wacky musical revue has entered its 25th year, surpassing the records set by many Broadway musicals. This extravaganza of dance, song and parody has dedicated its theme totally to amusement. San Francisco's "hottest little show" continually adds new characters and taller, more elaborate headdresses with changing times. You will long remember this laughter-filled evening. During the performance, wine, beer and soft drinks will be offered for sale in the theater.

Sunday, October 15, 1995

502

AEROBICS — \$5.00

7:00 AM - 8:00 AM

Your instructor will be Debbie Nogawa. Debbie is a health fitness professional with over 16 years of extensive practical and academic experience. She is ACSM and AFAA certified. She will be teaching an up, down and side to side high/low impact workout. Come experience simple high and low impact movements that combine into one "amazingly fun" workout. Have no fear—special attention will be given to the breakdown of combinations for all fitness levels.

503

WAKE UP TO SAN FRANCISCO WALK: NORTH BEACH — \$13.00

7:00 AM - 8:30 AM

Don't let our hills scare you! San Francisco is a walker's paradise. Your escort is an experienced walker who knows the City well! At your own pace, today's walk explores North Beach! Coffee houses, bakeries, the time honored Tai Chi wake-up ritual by locals in Washington Square, pigeons in the park, a city coming alive are all part of the visuals awaiting you. Armed with a map and your escort...you're off! (The walk is approximately two miles and takes about 1 to 1½ hours.)

504

SIGHTS OF THE CITY BY THE BAY — \$21.00

8:30 AM - 12:00 NOON

Learn what makes San Francisco a mosaic blend of international cities within a city. Traverse San Francisco's many and varied ethnic communities from Chinatown, one of the largest Asian communities outside the Orient, to Italy's North Beach, its streets brimming with restaurants,

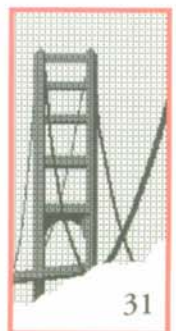
bakeries and coffee houses, or to Japantown with its graceful Pagoda and interesting shopping area. View the luxurious homes of Nob Hill, where the famous and flamboyant have mingled for decades. Then, on to the high-rises of glass and marble—Wall Street of the West—the Financial District. Drive through Golden Gate Park, with over 1,000 acres of natural beauty, home to a herd of buffalo, the West's finest museums and a most enchanting carousel! Finally, the Pacific Ocean, a beautiful natural force which has a strong influence on life in San Francisco. Experience scenic San Francisco Bay from many vistas as you encircle the city via the waterfront and return to the new vibrant center of the city, Yerba Buena Gardens.

505

TWO WHEELING IN GOLDEN GATE PARK — \$90.00

12:15 PM - 5:15 PM

This two wheeling adventure begins upon your arrival in world famous Golden Gate Park. A man-made paradise ever encroached upon by impeding sand dunes and suburbia, it is a haven for residents and visitors alike seeking relief from the confines of city life. The leisurely ride begins and ends at the Music Concourse. Start off along John F. Kennedy Drive with stops at



Auxiliary Tours

Sunday, October 15, 1995

(continued)

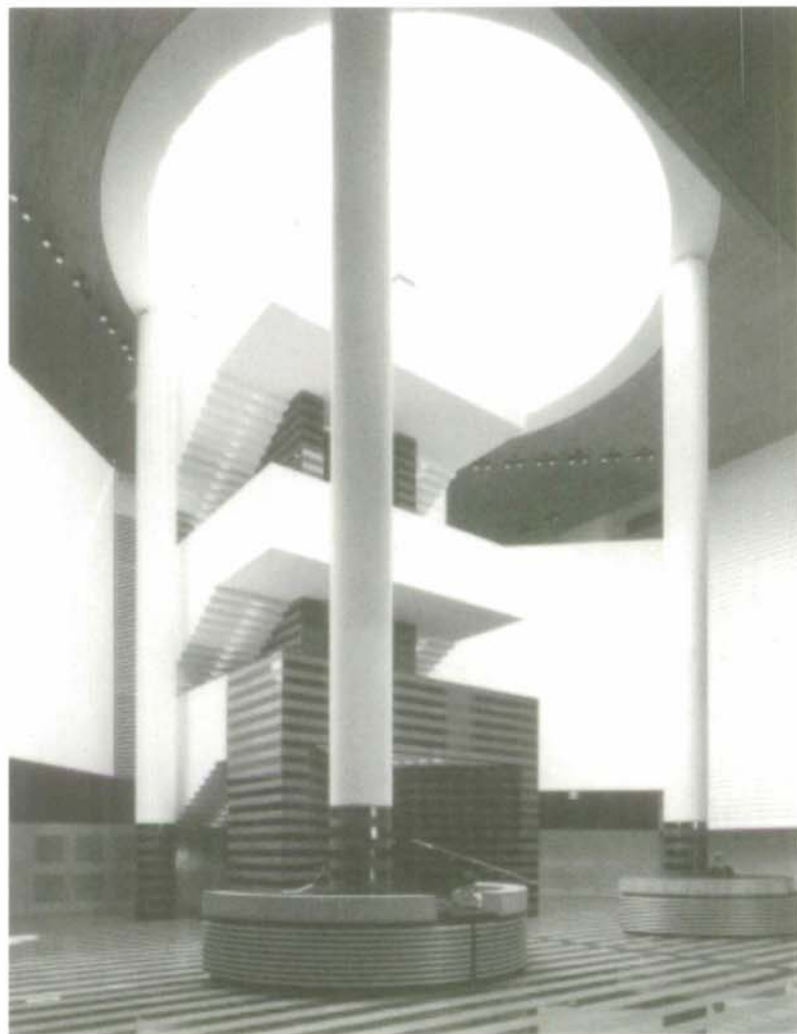
scenic vista points of interest such as Stow & Spreckels Lake, the Boat House and the Buffalo Paddock. We turn around at the Dutch Windmill, bordered by the Great Highway and surrounded by seasonal flower beds. Returning via Martin Luther King Drive affords views of casting ponds, polo fields, gracious meadows and abundant foliage. This ride is 10 miles and rated a skill level 1, easy riding.

**506
MAJESTIC MUIR WOODS AND
SAUSALITO — \$26.00**

12:30 PM – 4:30 PM

Thousands of acres of Marin County have been secured as park land insuring its pristine beauty for future generations to appreciate. Traveling across the Golden Gate Bridge, experience the dramatic contrast in scenery as you enter the 550-acre preserve containing hundreds of gigantic redwood trees—Muir Woods National Monument. Surrounded by unusual ferns, wild flowers and redwood burls, this cathedral-like valley is a unique environment containing redwood trees that are hundreds of years old and hundreds of feet high. After your self-guided walk, we're off to Sausalito. In 1993, Sausalito celebrated its 100th birthday and the realization of the town's goal—to be a community reminiscent of the French Riviera, a waterside town popular for its shopping, views and congenial hospitality. Your knowledgeable guide will share the history and secrets of Sausalito as you find specialty shops and picturesque waterfront views of San Francisco.

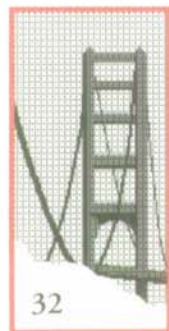
Note: As the weather is often cool, please wear layered clothing.



**507
ARTISTS: STUDIOS & COLLECTIONS — \$53.00**
12:30 PM – 5:00 PM

This unique tour, guided by Margy Boyd, will give participants the opportunity to view one of the most vibrant art communities in the country—the San Francisco Bay Area. There are hundreds of exceptional painters, sculptors, print makers and photographers as well as artists working in ceramics, video and glass. The Bay Area is also home to superb art museums, galleries and private collections. You will visit the studio of a leading artist and will be able to view and informally discuss their work. Also included is a private home collection seldom open to the public. The third stop will be a gallery or museum selected because of its current outstanding exhibition. This tour is made possible by special arrangement with the San Francisco Museum of Modern Art.

(continued >)



*Atrium and central staircase at the
San Francisco Museum of Modern
Art.*

Photograph by Richard Barnes

Sunday, October 15, 1995

(continued)

508

SHOOT THE MOON: A PHOTOGRAPHIC ADVENTURE — \$43.00

12:45 PM — 4:45 PM

Mary Stevens, published travel photographer and artist, press photographer for the 50th Anniversary of the Golden Gate Celebration, and whose work is in permanent collection at the Smithsonian Institute, Washington D.C., is your personal guide and instructor. Your adventure begins upon boarding an historic and charming motorized Cable Car! Utilized for their unrestricted picture-taking capabilities and easy on/off access, the Cable Car is also the perfect photographic subject! During this outing Mary shares her favorite hideaways for the perfect shot. From Victorian houses to cityscapes, private gardens, scenic vistas, artist's studios, photographic galleries or shadows on a wall, you may photograph inanimate objects, nature, possibly a live model or the Golden Gate Bridge as you never envisioned it. Mary will encourage your artistic vision for a very unique memento of your visit to San Francisco.

509, 510, 511, 512

OPENING RECEPTION: SAN FRANCISCO MUSEUM OF MODERN ART

7:00 PM — 9:00 PM

Join your colleagues at the new San Francisco Museum of Modern Art, the location for this year's Opening Reception. SFMOMA is San Francisco's newest attraction. The San Francisco Museum of Modern Art houses a number of outstanding collections as well as masterpieces by Matisse, Motherwell, Picasso and Polke. You will be able to view a number of these treasures while meeting colleagues and greeting old friends. Docents will be available for private group tours throughout the evening.

Monday, October 16, 1995

513

AEROBICS — \$5.00

7:00 AM — 8:00 AM

See Sunday's tour 502.

514

WAKE UP TO SAN FRANCISCO WALK: FINANCIAL DISTRICT — \$13.00

7:00 AM — 8:30 AM

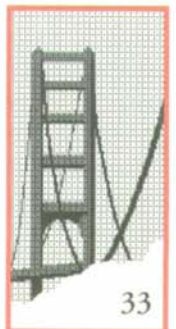
The center of activity in the city at this time of the morning, our "Wall Street of the West" is teeming with professionals on their way to the office. Carrying coffee and briefcases, arriving wearing sneakers and hosiery, the local paper tucked under their arms, it's business as usual for these citizens. Adrenaline pumping...it's time to start the day! Your escort is an experienced walker who knows the City well! At your own pace, today's walk explores the Financial District known for incredible architecture, glass and marble institutions of finance and historical significance. Armed with a map and your escort...you're off! (The walk is approximately two miles and takes about 1 to 1 1/2 hours.)

515

CALIFORNIA WINE EXPERIENCE — \$68.00

8:30 AM — 4:30 PM

The serene beauty of the California wine country is a little over one hour north of San Francisco. You will travel over the brilliant waters of San Francisco Bay and through the lush rolling hills of Marin County to reach this world renowned locale. It is a region of tree-tufted mountains and luxurious valleys, an agricultural area that matches farm lands anywhere in the country for beauty. Tilled fields create quilt-like patterns across the landscape and country roads wind into the hills. Whether you are a connoisseur of the grape or a new enthusiast, this wine tour offers you a unique opportunity to increase your knowledge and enjoyment of wine, as well as acquaint you with some of the finest wineries in the world. At midday, you will stop for lunch at a delightful valley restaurant.



(continued ►)

Auxiliary Tours

Monday, October 16, 1995

(continued)

516

CHOW FUN IN CHINATOWN —

\$81.00

10:00 AM — 2:00 PM

Upon entering Chinatown, you immediately move from the Western world into one of the largest Chinese communities outside the Orient. Authentic in atmosphere, over 20,000 Chinese live and work within this 18 square block community near downtown San Francisco. Your guide takes you through the secret alleys explaining what to look for when buying cackling hens or fresh fish in the markets. Select traditional Chinese cookies from one of the many Chinese bakeries that abound, sample tea from the exotic orient or purchase from traditional pharmacists offering centuries old medicinal herbs. Elegant pagoda topped buildings, street signs in Chinese, dragon entwined lamp posts and dialects ranging in the hundreds are constant reminders that you are in a thriving and historic ethnic neighborhood! A visit to Chinatown wouldn't be complete without a colorful and exciting cooking demonstration. Lunch will be served in a Chinatown restaurant following an elaborate demonstration, with help from the audience, of wok and stir fry oriental cooking. CHOW FUN!

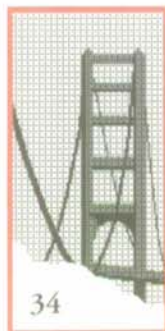
Note: Appropriate walking shoes are recommended.

517

**TIBURON, LUNCH AND SHOPPING
IN SAUSALITO — \$57.00**

11:30 AM — 4:30 PM

Board a ferry and enjoy your journey as you head towards Tiburon. Visit Tiburon's downtown, Main Street, with its shoulder-to-shoulder shops, art



The Sing Chong building in historic Chinatown.

*Photo courtesy of San Francisco Convention & Visitors Bureau.
Photo by Seth Affoumado.*



galleries and dockside (with views of the water and City) restaurants. Enjoy lunch at Guaymas with a spectacular view of the Bay and the City beyond. Later, Riviera-like Sausalito ambiance beckons you to a former fishing town and quaint artists' colony. On your shopping excursion, the most unusual and varied shopping place is The Village Fair on Bridgeway. The Village Fair has had quite a colorful past, serving as an opium and gambling den at the turn of the century and a hideout for gangsters and distillery during Prohibition. Walking south from Village Fair along either side of Bridgeway, you'll encounter small shops and galleries, one after another. To top off an undoubtedly delightful afternoon of shopping and exploring Sausalito and Tiburon you will return back to the City over the Golden Gate Bridge viewing the famous San Francisco skyline and the magnificent Pacific Ocean.

518

VINTAGE VICTORIANS — \$38.00

1:00 PM — 4:30 PM

Join us in a most interesting excursion as we explore San Francisco's famous Victorian houses. Meticulously maintained and beautifully refurbished, these "painted ladies" provide a glimpse into the City's fascinating and colorful past, and insights into the lives of the settlers who came from all walks of life. These architectural treasures survived the 1906 earthquake and fire, and their character still stands as an example of San Francisco's romantic past. The excess of design that these houses exude was generated by the affluence that poured into the City from the gold mining towns of the nearby Sierra foothills. Along with two house visits, you will be routed through districts fabled for their renovated Victorians. The knowledgeable guide will explain the various

(continued ▶)

Monday, October 16, 1995

(continued)

types of structures built in San Francisco, as well as give background on the areas and neighborhoods of our beautiful city. **Note:** Participants must be 12 years of age or older.

519

SAN FRANCISCO BEST RESTAURANT DINE AROUND — \$113.00

7:00 PM — 10:00 PM

For those with discriminating tastes, one of the best restaurants in San Francisco will be your destination tonight! Exactly where you will be dining will not be revealed until you arrive. Your group will be transported to one of the following restaurants for a delicious three course meal. Cappa and Graham will pre-select dining locations for each guest.

Postrio: The legendary Chef Wolfgang Puck, creator of Los Angeles' Spago, opened Postrio in 1989 to instant acclaim. The distinct style of California cuisine with Asian and Southern European influences is a bit heartier than the L.A. Spago style.

Stars: Just across the street from the San Francisco Museum of Modern Art, in a spacious room with an open kitchen, two elevated dining areas, a grand piano and an always packed cocktail area, Stars shines with an unsurpassed intensity.

Elka: The East meets West cooking wave crests in California, especially in San Francisco, a major gateway to Asia. Some of the most exciting melding of Eastern and Western cooking can be found at Elka, a whimsical new restaurant in Japantown. Lotus root, ginger, wasabi, lemon grass, bok choy, curry powder, mirin—all can be tasted in this playful setting which includes a frisky Asian mural, Adirondack-style furniture and a purple-and-blue ceiling adorned with abstract cutouts.

Aqua: One of the most significant restaurants to open in the Bay Area in the past two years. Chef George Morrone's preparations are innovative and largely original. The decor is airy, relaxed and stylish with incredible floral arrangements.

Tuesday, October 17, 1995

520

AEROBICS — \$5.00

7:00 AM — 8:00 AM

See Sunday's tour 502.

521

WAKE UP TO SAN FRANCISCO WALK: CHINATOWN — \$13.00

7:00 AM — 8:30 AM

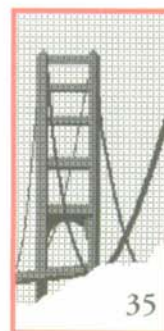
A cornucopia of sights, sounds and smells, Chinatown is gearing up for another day of selling its wares. From tea to shark fins, Peking Duck or almond cookies, as you stroll the alleys and window shop the multitudes of stores of Chinatown, the day will already have begun! One of the largest Chinese communities outside the Orient, armed with a map and your escort, you are ready to experience the hundreds of dialects spoken and the ethnicity of this thriving community. The walk is approximately two miles and takes about 1 to 1½ hours.

522

PRIVATE ELEGANCE HOME TOUR — \$50.00

9:15 AM — 12:30 PM

Shown by special arrangement with an exclusive girls school, parents and alumnae act as personal guides and hosts as you view their homes. Styles of architecture and design range from Victorian to ultra-modern. Perhaps you will tour a Victorian dating back to the naughty, gaudy pre-Earthquake days, or a villa clinging to a cliff overlooking the Golden Gate Bridge and the Marin Headlands. Some of these magnificent homes are located in San Francisco's most desirable and renowned neighborhoods - Presidio Heights and Pacific Heights. Decorator-designed kitchens, intriguing hidden gardens blooming in San Francisco's temperate climate and rarely shown private treasures await you on this very exclusive San Francisco tour. **Note:** Participants must be at least 16 years of age. For security reasons, Convention Badges must be worn and visible at all times.



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Auxiliary Tours

Tuesday, October 17, 1995

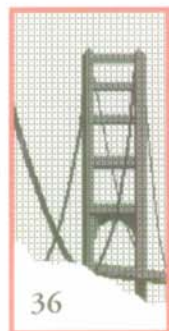
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523

**"WHY WOMEN NEED CHOCOLATE"
AUXILIARY EDUCATIONAL SESSION
w/DEBRA WATERHOUSE — No charge
10:00 AM — 11:30 AM**



This year's Auxiliary Educational Session will feature Debra Waterhouse, an internationally recognized nutrition expert. Ms. Waterhouse is a registered dietitian who received her bachelor's degree from Simmons College in Boston and an advanced degree in public health nutrition from the University of California at Berkeley. Ms. Waterhouse has lectured on various topics regarding nutrition. She has also appeared on television and written books on various nutritional issues.



Ms. Waterhouse will speak on issues discussed in her latest book "Why Women Need Chocolate, Eat What You Crave to Look and Feel Great". She will explain how gender makes a difference in food cravings and why women have a greater craving for certain foods. She will discuss how women can learn to satisfy cravings without

guilt or overeating. Ms. Waterhouse shows participants how an eating routine suited to a person's lifestyle can make women feel better, function more efficiently, eat less and enjoy food more—without dieting.

524

**AUXILIARY LUNCHEON AT THE CALIFORNIA
CULINARY ACADEMY — \$30.00
12:00 NOON — 3:00 PM**

The California Culinary Academy has been identified as a leader and innovator in the field of Culinary Arts. With an accredited professional chef training program, the Academy provides students with a solid foundation in the Culinary Arts. A cooking demonstration has been planned for you by one of the Academy's aspiring chefs followed by a luncheon. Come enjoy a dining experience prepared for you by some of the future chefs of tomorrow!

525

**AN EVENING ON THE BAY — \$123.00
6:30 PM — 10:30 PM**

An evening to remember awaits as you board your vessel for an evening cruise on the San Francisco Bay. Enjoy the majestic evening skyline of San Francisco as you sail under two magnificent structures, the Golden Gate Bridge and the Oakland Bay Bridge. "Open Your Golden Gates" takes on new meaning as you cruise the infamous San Francisco Bay. A sailor's dream, a photographer's paradise, the Bay offers more diversified views than any other body of water in the world. Whether it is the perspective as you look back onto San Francisco's famous skyline, the hills of the Marin Headlands, historic Alcatraz, serene Angel Island or the opening of the Bay while cruising by the Golden Gate Bridge, the experience is once-in-a-lifetime. San Francisco's unique combination of mild weather, calm waters and gorgeous scenery make this a very special San Francisco evening. A delicious three-course dinner will be served during the cruise.

526

**CHAMPAGNE AND CITY LIGHTS — \$43.00
8:00 PM — 11:00 PM**

Exciting *anytime*, San Francisco is especially enchanting in the evening. As you travel through the various neighborhoods on your motorcoach, the hills twinkle a thousand lights and the bridges seem to be strands of glittering jewels. You enjoy San Francisco as it was meant to be enjoyed—sipping champagne and partaking of sumptuous sweets. The San Francisco skyline looks magical as the lights of the various neighborhoods and hills are encircled by the Golden Gate and Bay Bridges.

Wednesday, October 18, 1995



527

AEROBICS — \$5.00

7:00 AM — 8:00 AM

See Sunday's tour 502.

528

TABRA: EXOTIC ETHNIC JEWELRY — \$21.00

8:30 AM — 12:00 NOON

This incredible opportunity to visit with Tabra Tunoa, one of the country's most prominent designers of exotic jewelry, should not be missed! You will observe and appreciate a magnificent collection of ethnic treasures that are meticulously assembled in Tabra's workshop using her unique, selective, handcrafted process. The blend of Tabra's education, world travels and personal mythology has resulted in her unique, creative vision. Her exotic stones and beads are of the finest quality and often quite rare. Her line of jewelry is carried in exclusive stores and galleries from Rodeo Drive to Fifth Avenue. Tabra spends two months a year making bead gathering trips to Third World countries in search of unusual natural materials. You will have this rare chance to meet and watch Tabra's artisans in a unique work environment.

NOTE: Participation is restricted to visitors who are 12 years of age or older.

529

!CIAO! NORTH BEACH — \$70.00

10:00 AM — 2:00 PM

Your tour guide is...none other than GraceAnn Walden! Regular columnist for *The San Francisco Chronicle*, free-lance writer for *Sunset* and *Wine Spectator* magazines, tour guide extraordinaire and restaurant reviewer for

KKSF radio! The smells will be tantalizing, the tastes delectable! This tour goes behind the scenes at a brick oven bakery where you will, of course, taste freshly baked bread and homemade sugar twists. Follow the aroma and visit a sausage maker where the taste treat will be house-made mascarpone cheese torte and the butcher's own cured-dry Jack cheese. Learn about cooking utensils at an 86-year-old hardware store and visit a ceramic shop with china and decorative items from Italy. We break from the food tasting path for a delightful visit to the "Italian Cathedral" of North Beach, Sts. Peter and Paul. Strolling past the more than 65 trattorias that line the black-tiled storefronts, our next stop is a wonderful deli. Learn about olive oil, which canned tomatoes are best and sample fresh meats and cheeses. One last stop to another bakery for the indescribable pleasure of tasting fresh focaccia and now...it's time for lunch! When in North Beach or Italy...dine family style! A delicious meal is presented at Enrico's for your inquisitive taste buds. !Ciao ravioli!

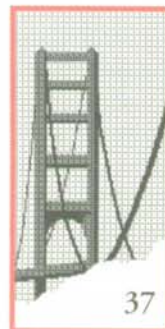
530

FILOLI GARDENS ESTATE TOUR — \$33.00

12:00 NOON — 4:30 PM

This 728-acre country estate, built in 1916, has been the setting for scenes in the television series "Dynasty" and the movie "Heaven Can Wait." The house is an outstanding and important example of country house architecture in the United States, and is one of the few in California that remains intact in its original setting. The modified, Georgian-style mansion was designed by the well-known California architect Willis Polk. Knowledgeable docents accompany you on your tour of the house and gardens. Originally designed by Bruce Porter, the adjacent 16 acres of gardens are a profusion of plants and flowers, laid out in separate areas, each with its own distinct character.

Note: It is suggested that guests wear comfortable walking shoes as many of the garden paths are gravel.



(continued >)

Auxiliary Program-at-a-Glance

Saturday, October 14	Sunday, October 15	Monday, October 16	Tuesday, October 17	Wednesday, October 18
	<p>Aerobics 7:00 AM – 8:00 AM</p> <p>Wake-up Walk: North Beach 7:00 AM – 8:30 AM</p> <p>Sights of the City by the Bay 8:30 AM – 12:00 NOON</p> <p>Two Wheeling in Golden Gate Park 12:15 PM – 5:15 PM</p> <p>Majestic Muir Woods and Sausalito 12:30 PM – 4:30 PM</p> <p>Artists: Studios and Collections 12:30 PM – 5:00 PM</p> <p>Shoot the Moon: A Photographic Experience 12:45 PM – 4:45 PM</p> <p>Opening Reception 7:00 PM – 9:00 PM</p>	<p>Aerobics 7:00 AM – 8:00 AM</p> <p>Wake-up Walk: Financial District 7:00 AM – 8:30 AM</p> <p>California Wine Experience 8:30 AM – 4:30 PM</p> <p>Chow Fun in Chinatown 10:00 AM – 2:00 PM</p> <p>Presidential Address 11:15 AM – 12:00 NOON</p> <p>Tiburon, Lunch, Sausalito and Shopping 11:30 AM – 4:30 PM</p> <p>Vintage Victorians 1:00 PM – 4:30 PM</p> <p>San Francisco Dine Around 7:00 PM – 10:00 PM</p>	<p>Aerobics 7:00 AM – 8:00 AM</p> <p>Wake-up Walk: Chinatown 7:00 AM – 8:30 AM</p> <p>Private Elegance Home Tour 9:15 AM – 12:30 PM</p> <p>Auxiliary Education Session w/Debra Waterhouse 10:00 AM – 11:30 AM</p> <p>Auxiliary Luncheon at the California Culinary Academy 12:00 NOON – 3:00 PM</p> <p>An Evening on the Bay 6:30 PM – 10:30 PM</p> <p>Champagne and City Lights 8:00 PM – 11:00 PM</p>	<p>Aerobics 7:00 AM – 8:00 AM</p> <p>Tabra: Exotic Ethnic Jewelry 8:30 AM – 12:00 NOON</p> <p>!Ciao! North Beach 10:00 AM – 2:00 PM</p> <p>Filoli Gardens Estate Tour 12:00 NOON – 4:30 PM</p> <p>Two Wheeling to Marin 12:15 PM – 5:15 PM</p> <p>Wine and Cheese Reception 6:00 PM – 7:30 PM</p>
<p>Fior D'Italia and Beach Blanket Babylon 5:00 PM – 9:00 PM</p>				

Wednesday, October 18, 1995

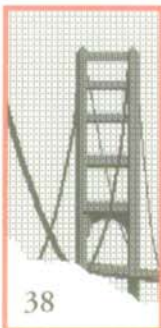
(continued)

531

TWO WHEELING TO MARIN — \$90.00
12:15 PM – 5:15 PM

Your bike ride begins at historic Aquatic Park on the Bay. Departing we ride up a small hill into Ft. Mason and then down into the picturesque Marina area. Following along the water we enter the busy

yacht harbor, cruise past the St. Francis Yacht Club and proceed along Crissy Field to Ft. Point. Then...it's up onto the Golden Gate Bridge for a truly memorable experience. Riding across the Golden Gate affords photo opportunity vistas not possible while driving. The Marin Headlands, Alcatraz, Angel Island even Treasure Island and San



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Francisco's own distinctive skyline are all visible and make for the perfect picture. Entering Marin County we peddle to Ft. Baker, past the Coast Guard Station, up to Alexander Avenue and then down into the town of Sausalito! There will be time for shopping before your motorcoach returns. (This ride is 12 miles and rated a skill level 2, moderate.)

532

WINE-TASTING RECEPTION — \$15.00
6:00 PM – 7:30 PM

This year the Annual Banquet on Wednesday will be replaced by a wine-tasting event. An excellent selection of wines has been assembled from the finest vineyards in Napa Valley. Since the event will end at 7:30 PM, this will allow ample time for dining at any of San Francisco's many superb restaurants. The Annual Meeting Committee hopes that CNS members and their spouses and guests will take this opportunity to have a glass of good wine with their friends and colleagues to draw the Annual Meeting to a close.

AVIS[®]



A Parade Of Savings.

From \$10 To \$20 Off A Weekend Rental

Terms and Conditions

Offer valid on an Intermediate (Group C) through a Full Size 4-Door (Group E) car for a minimum 2-day rental. Coupon must be surrendered at time of rental; one per rental. May not be used in conjunction with any other coupon, promotion or offer. Coupon valid at participating Avis locations in the contiguous U.S. and Canada. Weekend rental period begins Thursday noon and car must be returned by Monday 11:59 p.m. or coupon will not be valid. Offer not available during holiday and other blackout periods. Offer may not be available on all rates at all times.

An advance reservation is required. Cars subject to availability. Taxes, local government surcharges and optional items, such as LDW, additional driver fee and refueling, are extra. Renter must meet Avis age, driver and credit requirements. Minimum age is 25 but may vary by location. Offer expires November 15, 1995.

Rental Sales Agent Instructions. Automated. At Checkout:

In AWD, enter **K817600**. For a 2-day rental, enter **MUAA103** in CPN. For a 3-day rental, enter **MUAA104** in CPN. For a 4-day rental, enter **MUAA105** in CPN. Complete this information:

RA# _____ Rental Location _____

Attach to COUPON tape.

Rental Sales Agent Instructions. Manual. At Checkout:

For a 2-day rental, enter **MUAA103** in CPN. For a 3-day rental, enter **MUAA104** in CPN. For a 4-day rental, enter **MUAA105** in CPN. Complete this information:

RA# _____ Rental Location _____

At car return, enter amount to be deducted in box 36. Subtract this amount from the totals of boxes 30 through 35. Submit coupon to Marketing Department CHQ.



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\$15 Off A Weekly Rental

Terms and Conditions

Coupon valid for \$15 off weekly rates at participating Avis locations in the contiguous U.S., Canada, Europe, Africa, and the Middle East, except where prohibited by law, for a minimum 5-day rental. In the U.S. and Canada, offer valid on a Group C through Group E car. Offer valid on a Group B through Group E car in Europe, Africa and the Middle East on Standard, SuperValue and Discover Europe rates only. Coupon must be surrendered at time of rental; one per rental. May not be used in conjunction with any other coupon, promotion or offer. In Europe, Africa and the Middle East, offer is valid for \$15 USD off or the equivalent in local currency. Offer not available during holiday and other blackout periods. Offer may not be available on all rates at all times. Cars subject to availability. **An advance reservation is required.** Taxes, local government surcharges and optional items, such as LDW, additional driver fee and refueling, are extra. Renter must meet Avis age, driver and credit requirements. Minimum age is 25 but may vary by location. Offer expires November 15, 1995.

Rental Sales Agent Instructions. Automated. At Checkout:
In AWD, enter **K817600**. In CPN, enter **MUAA106**. Complete this information: _____ Attach to COUPON tape.
RA# _____ Rental Location _____

Rental Sales Agent Instructions. Manual. At Checkout:

Enter **MUAA106** in box 15. Complete this information:

RA# _____ Rental Location _____

At car return, enter amount to be deducted in box 36. Subtract this amount from the totals of boxes 30 through 35. Submit coupon to Marketing Department CHQ.

Automated Locations In Europe, Africa And The Middle East. At Checkout:

In AWD, enter **K817600**. Enter M followed by the monetary value of the coupon in local currency, in the ADJUSTMENT field. Submit coupon with 1 copy of RA to Country HQ.

Manual Locations In Europe, Africa And The Middle East. At Checkout:

In AWD, enter **K817600**. Enter M followed by the monetary value of the coupon in local currency, in the ADJUSTMENT box (42). Submit coupon with 1 copy of RA to Country HQ.

Country HQ Instructions

Renting country must absorb the cost of this promotion. Chargebacks not allowed.

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Introducing Key Players

Stephen J. Haines President-Elect

Stephen J. Haines was born on September 4, 1949 at the Mary Fletcher Hospital in Burlington, Vermont, the son of Gerald and Frances Haines. His father was spending a year in neurosurgical training at the Montreal Neurological Institute at that time. In 1950 they returned to Minneapolis, Minnesota where his father completed his neurosurgical training at the University of Minnesota.

Steve obtained his secondary education at the Niskayuna High School in Schenectady, New York. From there he went to Dartmouth College, obtaining the B.A. degree magna cum laude with highest distinction in his major field of Mathematics and the Social Sciences and being elected to Phi Beta Kappa. Upon completing medical school at the University of Vermont graduating AOA in 1975, Steve returned to the University of Minnesota where he completed his general surgical internship. From 1976 to 1981 he was resident in neurosurgery at the University of Pittsburgh under Dr. Peter Jannetta. Steve won the Van Wagenen Fellowship of The American Association of Neurological Surgeons in that year and studied the application of clinical trials techniques in neurology and neurosurgery in the University Department of Clinical Neurology at Oxford University under the tutelage of Dr. Charles Warlow. Upon returning to the United States, he assumed his first academic position as Assistant Professor of Neurosurgery at the University of Minnesota where Shelley Chou was the Chairman of the Department. Achieving board certification in 1984, he was appointed Head of the Division of Pediatric Neurosurgery in 1985 and in 1987 was promoted to Associate Professor Neurosurgery. In 1989 Steve was granted a joint appointment as Associate Professor of Otolaryngology. In 1993 he was promoted to Professor Neurosurgery and Professor Otolaryngology. He also received a joint appointment as Professor of Pediatrics.

Steve maintains an active practice in pediatric neurosurgery and in surgery of the skull base and posterior fossa. His current research interest is in neurosurgical clinical trials.



*Stephen J. Haines
President-Elect*



Terry and Marc Mayberg

Terry and Marc Mayberg Annual Meeting Chairmen

Terry was born in Florida and lived in Spain and Texas before moving to Washington at an early age. She attended Gonzage 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 metabolism.

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 where he is currently Professor. His research interests include the biology of smooth muscle and endothelium, cerebral vasospasm and carotid endarterectomy.

Marc and Terry like to ski, travel, exercise and cook although most of their time now is occupied by their son, Matthew, who is six months old.



Introducing Key Players

Penny and Steve Papadopoulos Scientific and Educational Chairmen

Penny and Steve Papadopoulos live in Ann Arbor, Michigan. Steve is an Associate Professor at the University of Michigan with appointments in the Sections of Neurosurgery and Orthopaedic Surgery. He has a wide range of academic interests in neurosurgery with primary focus on spinal disorders. Penny also works at the University of Michigan as a Clinical Nurse Specialist in the Employee Health Clinic with a particular interest in health, fitness and nutrition. They have three young boys, Michael, Matthew and Marcus, who joyfully occupy their spare time. Both Steve and Penny are very active in the academic community locally and nationally. Their interest and work in the Congress of Neurological Surgeons is long-standing.



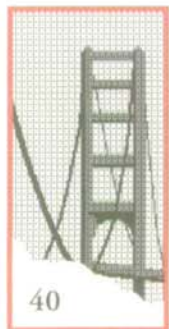
Steve and Penny Papadopoulos



Linda and Brian Andrews

Brian and Linda Andrews Local Arrangements Chairmen

Brian Andrews moved from Canada to the Bay Area as a child. He obtained his undergraduate degree at the University of Southern California and his medical degree at the University of California at San Francisco. He did his residency training there followed by a fellowship at the Henry Ford Hospital in Detroit in microvascular surgery. He is currently an attending neurosurgeon at San Francisco General Hospital and has a private practice of neurological surgery in San Francisco. Linda Andrews grew up in the San Francisco area. She attended the University of California at Davis, followed by training in nutrition, and now remains busy raising their two children, Lauren (10) and Christopher (8).



Opposite page.

*The Martin Luther King, Jr.
Memorial Waterfall at Yerba Buena
Gardens*

*Courtesy of the San Francisco
Visitors Bureau. Photo by Dawn
Stranne.*

Hotel Reservations — Transportation

Hotel Reservations — Official CNS Hotels

To receive the special CNS discounted convention rate, the enclosed form must be mailed or faxed to make your hotel reservations. Please mail or fax your Housing Form to the CNS Housing Bureau. All reservation requests must be received by September 14, 1995. (NO PHONE CALLS WILL BE ACCEPTED.) Upon receipt of your request, a written acknowledgment will be mailed to you from the Housing Bureau. A written confirmation will be mailed directly from your assigned hotel. Please allow two weeks for processing.

Upon receipt of your confirmation, changes in arrival/departure or cancellations should be made directly with your assigned hotel. Reservations must be guaranteed with a credit card number on the housing reservation form by September 14, 1995.

Early reservations are strongly suggested. Special discounted rates are available only through the cut-off date, September 14, 1995.

If more than one room is needed, additional forms must be submitted, one for each room. If room blocks are needed, see housing form for procedures.

Transportation—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 San Francisco, California, October 14–19, 1995.

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:

DELTA AIRLINES
800-241-6760
8:00 AM - 11:00 PM
Eastern Time
Seven Days a Week
Ask for File #: P0344

UNITED AIRLINES
800-521-4041
7:00 AM - 10:00 PM
Eastern Time
Seven Days a Week
Ask for File #: 599SM

Montréal...site of the 1996 CNS Annual Meeting



Photo courtesy of Greater Montréal Convention and Tourism Bureau.

FUTURE MEETINGS

September 28–October 3, 1996	Montréal, Quebec
September 27–October 2, 1997	New Orleans, Louisiana
October 3–8, 1998	Seattle, Washington



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Phone: (708) 692-9500
Fax: (708) 692-2589