



Preliminary Program

40th Annual Meeting
Century Plaza Hotel and Towers ■ Los Angeles, California
October 20—October 25, 1990



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Photographs courtesy of Los Angeles Convention and Visitors Bureau.

Dear Colleague,

The superb Century Plaza Hotel on the Avenue of the Stars in Los Angeles is the venue for the Fortieth Annual Meeting of the Congress of Neurological Surgeons. The weather should be perfect in October, facilitating our enjoyment of the Southern California ambience.

Our Honored Guest will be Doctor Charles Byron Wilson, Professor and Chairman at the University of California, San Francisco. His interest and accomplishments in malignant brain disease, pituitary disorders, and vascular problems are well known and comprise the subjects of his three main addresses.

The General Scientific Sessions will be directed to imaging, thoracic spine, epilepsy and radiosurgery, and acoustic tumors. A wide range of subjects will be included in the Special and Practical Courses. Laboratories on the lovely UCLA campus will be utilized.

A special course entitled, "Neurosurgery in the Year 2000", has been planned by the Joint Council of State Neurosurgical Societies and will feature Congressman Fortney Stark, Doctor Samuel O. Thier, President of the Institute of Medicine, and other dignitaries.

Also, a session devoted to effectively making our views known to government is scheduled.

The Social Calendar will be headlined by a blockbuster opening party at Universal Studios and will also feature other exciting attractions such as tickets to Phantom of the Opera and the magnificent Cirque de Soleil from Montreal.

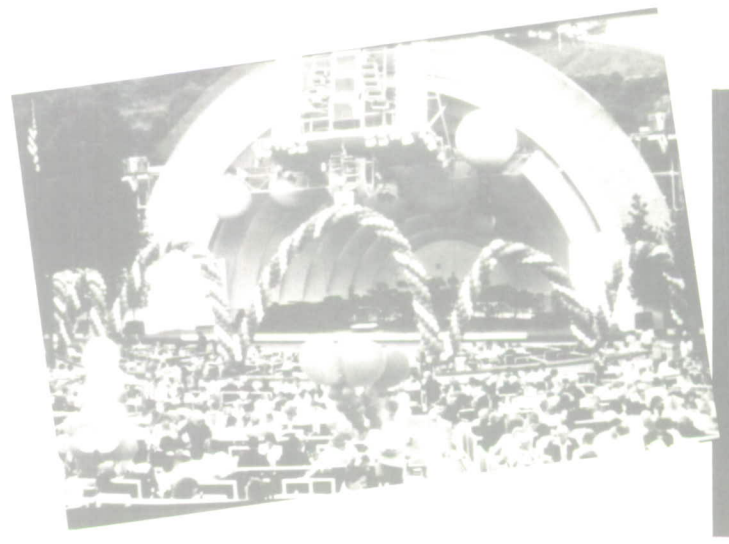
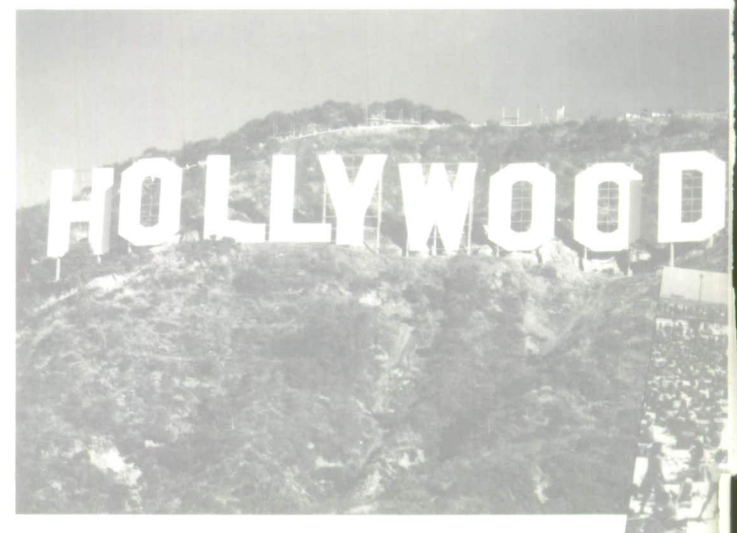
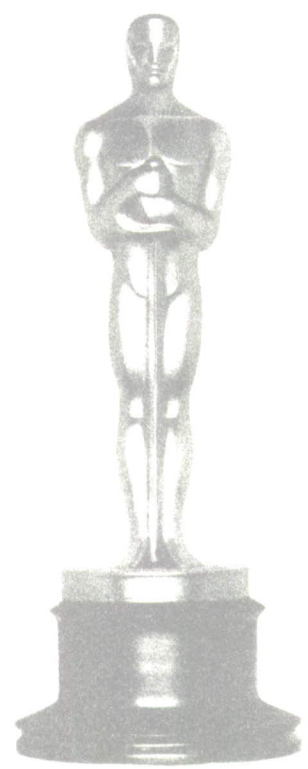
Make your plans now to head West. I'm looking forward to seeing you in the City of Angels.

Sincerely,

Hal L. Hankinson, M.D.

President

Congress of Neurological Surgeons





WELCOME TO L.A.!

As the gateway to Southern California and to the Pacific Rim nations, the "City of Angels" has become the "city of the future", blending a rich heritage and an entrepreneurial spirit with new technologies, regional interests and international commerce. Los Angeles offers a dynamic, exciting background for the Congress of Neurological Surgeons 40th Annual Meeting.

Before the Spanish settlers arrived, the land was occupied by Indians who had come from Asia. Spanish missionaries arrived in 1769. The sleepy farming community of Los Angeles, el Pueblo de Nuestra Senora La Reina de Los Angeles (the town of our Lady Queen of Angels) was founded by Spanish farmers in 1781.

With the ending of the Mexican-American war in 1848, California became a U.S. territory. It was the gold Rush of 1849 which brought about the first major movement to the west, with 49-ers migrating to L.A. as well as San Francisco. During the 1880's thousands of settlers poured into Los Angeles starting a land boom. Cheap railroad fares and agricultural opportunities, especially oranges, enticed immigrants to the "land of eternal sunshine."

Boom followed boom from the 1880's to the 20th Century. From the oil discovery in 1892, the blossoming of the film industry in 1908, the start of the aviation business in 1910, to the completion of an aqueduct to bring water from the Northern California mountains in 1913, Los Angeles turned into a major world city in only five decades.

Today Los Angeles, the second largest city in the United States, is a remarkable cosmopolitan city with economic and industrial diversity, an international mix of people, and sophisticated cultural arts.

From the sun-soaked beaches on the Westside to the trendy shops on Melrose and the skyscrapers downtown, Los Angeles is a thriving metropolis with an energy of its own. Los Angeles boasts an unparalleled variety of entertainment. If your passion is film or the Philharmonic, new wave music or nouvelle cuisine, sun-bathing or stargazing, L.A.'s the Place. Angelenos are a special breed, proud of their ethnic diversity, their unique culture, with an open and friendly attitude. Explore the city – from the freeways to the fairways, from the mountains to the sea.

The Congress' commitment to an outstanding scientific program is continued this year. Covering the broad spectrum of clinical neurological surgery, there are topics of interest to all. New products and services for the specialty will be on display throughout the week. The social program offers a variety of options to enjoy while in L.A. Join your colleagues in celebrating the 40th anniversary of the CNS – October 20-25. Los Angeles beckons.



GENERAL INFORMATION

REGISTRATION INFORMATION

Enclosed with this preliminary program are the following materials:

- Registration form
- Housing form

Please complete the registration form, returning it and the necessary fees in the small envelope provided.

PLEASE NOTE: The deadline for advance registration is September 19. Because course capacities are limited, early registration is recommended.

Registration will open at 2:00 p.m. on Saturday, October 20, at the Century Plaza Hotel, and will remain open until 7:00 p.m. On Sunday registration will be open from 8:00 a.m.-7:00 p.m. Registration will be open from 7:30 a.m.-5:30 p.m. Monday through Wednesday, and on Thursday from 7:00 a.m.-11:00 a.m.

HOTEL RESERVATIONS

To ensure room reservations at the discounted convention rate, rooms must be reserved through the CNS Housing Bureau, on an official CNS Housing Form. Please see page 27 of this brochure for complete hotel information. **NOTE:** The deadline for room reservations is September 19.

REFUND POLICY

Pre-Registration Fees: A letter requesting cancellation of pre-registration must be received by the CNS Annual Meeting Office, 22 South Washington, Park Ridge, Illinois 60068, by September 19 in order to receive a full refund. Cancellation requests received after September 19 and before October 16 will be refunded less a \$75.00 processing fee. No refunds will be made if received in the CNS Annual Meeting Office after October 16, 1990.

Course and Event Tickets: Course and Event tickets will be refunded in full until October 16, 1990. Because of facility guarantees, there can be no refund for tickets cancelled after October 16. There will be no on-site return or exchange of tickets for courses.

AIRLINE INFORMATION

The CNS has negotiated discount airfares with United and Delta Air Lines for persons attending the CNS Annual Meeting. The airline may be called directly, or by travel agents. See page 28 for discount information.

SOCIAL AND AUXILIARY ACTIVITIES

The mauve pages 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 the opportunity to explore the Los Angeles area.

SCIENTIFIC MEETING

All scientific meetings and exhibits will take place at the Century Plaza Hotel, located in Century City (the Beverly Hills Area). Over 175 exhibits featuring the latest neurosurgical products, will be on view beginning Monday morning at 9:30 a.m. The Wine and Cheese Party and Poster Viewing Session on Tuesday afternoon will be highlights in this area.

RESIDENT REGISTRATION

Meeting registration for residents and spouses is complimentary. All scientific course numbers followed by an "R", i.e., 102R, are complimentary or discounted courses to residents. Please indicate the appropriate resident course number on the registration form to register for these courses. Special resident activities scheduled include the Resident Luncheon on Tuesday with the Honored Guest, Dr. Charles B. Wilson and the leadership of the Congress. Reduced room rates for residents have been obtained at the Century Plaza Hotel and the Beverly Hilton Hotel. The official resident housing form must be used to obtain these rooms. Because of limited availability of resident tickets for some courses, early registration is suggested. On-site availability of complimentary course tickets can be determined at the Resident Desk in the Registration Area.

RESIDENT GREETING

On behalf of the Residents' Committee of the Congress, I would like to extend a warm welcome to all Neurosurgery Residents to the Annual Meeting in Los Angeles. The Scientific Program of the Annual Meeting is particularly focused on the education of young neurosurgeons. Each morning of the meeting a specific, often controversial, topic is discussed in detail by leading experts from throughout the world. You will have an opportunity to meet and question many of these leaders in neurosurgery at small luncheon seminars and special courses. A special "Residents Luncheon" will be available free to all residents during which you will have the opportunity to meet personally with our Honored Guest, Dr. Charles Wilson. Dr. Wilson has a truly exceptional experience to share and is looking forward to meeting with the residents.

Along with the Scientific Program is an exciting Social Program and the opportunity to talk to the many commercial exhibitors and see the latest in modern neurosurgical instrumentation and imaging. We look forward to seeing you at the meeting.

William A. Friedman, M.D.
Chairman, Residents' Committee

Program Summary

	Saturday	Sunday	Monday	Tuesday	Wednesday	Thursday
Morning	Arrival	Decade of the Brain Workshop Practical Courses	International Breakfast and Program General Scientific Session I: Imaging Honored Guest Presentation	Fun Run & Walk General Scientific Session II: Thoracic Spine Presidential Address	General Scientific Session III: Radiosurgery and Epilepsy Honored Guest Presentation	Honored Guest Presentation General Scientific Session IV: Acoustic Neuromas
Afternoon	Registration Open at 2:00 p.m.	Special Course I: Management of Angiographically Apparent and Occult Vascular Malformations Practical Courses Pediatric Section Workshop Stereotactic Section Workshop	Luncheon Seminars Special Course II: Neurosurgery in the Year 2000 Cerebrovascular Section Program Spine Section Program	Luncheon Seminars Special Course III: Frontiers in Stereotactic Surgery Wine & Cheese Reception	Luncheon Seminars Special Course IV: Endovascular Therapeutic Techniques Tumor Section Program Trauma Section Program	Adjournment
Evening	Verdi Ristorante Cirque Du Soleil	Opening Night At Universal	An Evening at the Improv	Jerome Robbins' Broadway or Phantom of the Opera	Annual Reception and Banquet	

CONTINUING MEDICAL EDUCATION

This Joint Committee on Education of the American Association of Neurological Surgeons (AANS) and the Congress of Neurological Surgeons (CNS) designates this continuing medical education activity for 40 credit hours in Category I toward the Continuing Education Award in Neurosurgery and the Physician's Recognition Award of the American Medical Association. The Joint Committee on Education of the AANS/CNS is accredited by the Accreditation Council for Continuing Medical Education to sponsor continuing medical education for physicians.

CNS ANNUAL MEETING CHAIRMEN

General Chairman

Martin B. Camins, M.D.

Exhibits

Roy P. Baker, M.D.

Host

Harry R. Van Loveren, M.D.

Local Arrangements

J. Gordon McComb, M.D.

Public Relations

Keith Black, M.D.

Registration Co-Chairpersons

Linda Sternau, M.D.

Craig Van der Veer, M.D.

Residents' Registration

Fredric B. Meyer, M.D.

Clinical Neurosurgery

Warren R. Selman, M.D.

Scientific Program

William F. Chandler, M.D.

General Scientific Session I

Christopher M. Loftus, M.D.

General Scientific Session II

Patrick W. Hitchon, M.D.

General Scientific Session III

William A. Friedman, M.D.

General Scientific Session IV

Michael B. Pritz, M.D.

International Scientific Program

Richard G. Perrin, M.D.

Luncheon Seminars Co-Chairmen

Laligam N. Sekhar, M.D.

Daniel L. Barrow, M.D.

Open Scientific Sessions

Ralph G. Dacey, M.D.

Poster Session

H. Carson Mckowen, M.D.

Barton L. Guthrie, M.D.

Practical Courses

Neil A. Martin, M.D.

Special Courses

Edward H. Oldfield, M.D.

Videotape Library

Mark N. Hadley, M.D.

Workshops

Dennis J. Maiman, M.D.

Sergeant-At-Arms

Larry D. Tice, M.D.

Residents Program

H. Hunt Batjer, M.D.

8:30 a.m.-11:30 a.m.

**DECADE OF THE BRAIN WORKSHOP —
TECHNIQUES FOR INFLUENCING AND
EDUCATING POLITICIANS & TECHNIQUES
FOR PHILANTHROPIC FUND RAISING**

Moderator: Russell L. Travis, M.D.

Albert L. Rhoton, Jr., M.D., Lawrence S. Hoffheimer, J.D.,
Morgan Downey, J.D., Charles Plante, J.D.



PRACTICAL COURSES

**Limited Registration
(ticketed)**

Transportation to University for Laboratory Practical
Course 007 departs from Century Plaza at 8:00 a.m.

8:30 a.m.-5:30 p.m.

**001
THORACOLUMBAR SPINE
INSTRUMENTATION**

Sanford J. Larson, M.D. — Course Director

Gregory J. Bennett, M.D. James G. Egnatchik, M.D.,
Charles B. Stillerman, M.D., Frances K. Conley, M.D.,
Dennis J. Maiman, M.D., Ph.D., Paul C. McCormick, M.D.



8:30 a.m.-12:00 p.m.

**002
ENDOVASCULAR/INTERVENTIONAL
NEUROSURGERY FOR AVM'S, ANEURYSMS,
AV FISTULAS AND TUMORS**

*Nick Hopkins, M.D. and Neil A. Martin, M.D. —
Course Directors*

Randall T. Higashida, M.D., Joseph Horton, M.D.,
Stanley L. Barnwell, M.D., Fernando Vinuela, M.D.

**003
SKULL BASE SURGERY — CAVERNOUS SINUS
APPROACHES**

Jeffrey T. Keller, M.D., Ph.D. — Course Director

Harry Van Loveren, M.D., Laligam N. Sekhar, M.D.,
John M. Tew, M.D.

**004
CERVICAL SPINE INSTRUMENTATION**

Volker K.H. Sonntag, M.D. — Course Director

Fred H. Geisler, M.D., J. Michael McWhorter, M.D.,
Ronald I. Apfelbaum, M.D., George W. Sypert, M.D.

005

IMAGE-GUIDED STEREOTACTIC SURGERY

Robert J. Coffey, M.D. — Course Director

Raymond Sawaya, M.D., John Gorecki, M.D.,
A. Angelo Patil, M.D., William D. Tobler, M.D.,
Sergio Gonzalez Arias, M.D.

006

MICROSURGERY FOR ANEURYSMS

Arthur L. Day, M.D. — Course Director

Albert L. Rhoton, Jr., M.D., H. Hunt Batjer, M.D.,
Steven L. Giannotta, M.D., John R. Little, M.D.

007

**ANTERIOR APPROACHES TO THE
SKULL BASE**

Keith L. Black, M.D. — Course Director

Ossama Al-Mefty, M.D., Chandra N. Sen, M.D.,
Gerald Berke, M.D., Jon H. Robertson, M.D.,
Larry Hoover, M.D., Donald P. Becker, M.D.



**10:00 a.m.-10:30 a.m.
COFFEE BREAK**



**2:00 p.m.-5:30 p.m.
PRACTICAL COURSES
(ticketed)**

Transportation to University for Laboratory Practical
Course 012 departs from Century Plaza at 1:30 p.m.

008

**ENDOVASCULAR/INTERVENTIONAL
NEUROSURGERY FOR AVM'S, ANEURYSMS,
AV FISTULAS AND TUMORS**

*Nick Hopkins, M.D. and Neil A. Martin, M.D.
(Same as Course 002)*

009

**SKULL BASE SURGERY — CAVERNOUS SINUS
APPROACHES**

*Jeffrey T. Keller, M.D., Ph.D.
(Same as Course 003)*

010

CERVICAL SPINE INSTRUMENTATION

*Volker K.H. Sonntag, M.D.
(Same as Course 004)*

011
IMAGE-GUIDED STEREOTACTIC SURGERY

Robert J. Coffey, M.D.
(Same as Course 005)

012
ANTERIOR APPROACHES TO THE SKULL BASE

Keith L. Black, M.D.
(Same as Course 007)

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

2:30 p.m.-5:30 p.m.
**JOINT SECTION ON STEREOTACTIC AND
FUNCTIONAL NEUROSURGERY WORKSHOP**

Section Symposium: Movement Disorders
Moderator: Dennis E. Bullard, M.D.

**An Overview of the Medical Management of
Movement Disorders**
Charles H. Markham, M.D.

**Ablative Procedures for the Treatment of
Movement Disorders**
Ronald R. Tasker, M.D.

**Transplantation and Implantable Devices for the
Treatment of Movement Disorders**

Richard D. Penn, M.D.

Open Scientific Session

2:30 p.m.-5:30 p.m.
PEDIATRIC SECTION WORKSHOP

Section Symposium: Pediatric Neurosurgery – 1990
Moderator: J. Gordon McComb, M.D.

Head Injury

Thomas G. Luerssen, M.D.

Posterior Fossa Tumors

Jeffrey H. Wisoff, M.D.

Hydrocephalus

Harold L. Rekate, M.D.

Neural Tube Defects

J. Gordon McComb, M.D.

Spasticity

William M. Chaddock, M.D.

Open Scientific Session

2:30 p.m.-5:30 p.m.
SPECIAL COURSE I
055/056R

**MANAGEMENT OF ANGIOGRAPHICALLY APPARENT
AND OCCULT VASCULAR MALFORMATIONS**

Course Director: Daniel L. Barrow, M.D.

**Natural History and Clinical Decision-Making for Intracranial
Pial Arteriovenous Malformations**

Daniel L. Barrow, M.D.

**Management of Angiographically Occult Vascular
Malformations**

Robert F. Spetzler, M.D.

**Natural History and Management of Dural Arteriovenous
Malformations**

John R. Little, M.D.

**The Role of Radiosurgery in Management of Angiographically
Apparent and Occult Vascular Malformations**

William A. Friedman, M.D.

6:30 a.m.-7:45 a.m.

100

INTERNATIONAL BREAKFAST AND PROGRAM

Chairman: Richard G. Perrin, M.D.

Speaker: David G. T. Thomas, M.D.

The National Hospital, Queen Square, London, England

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

**GENERAL SCIENTIFIC SESSION I
IMAGING**

Presiding Officer: Hal L. Hankinson, M.D.

Moderators: Christopher M. Loftus, M.D. and Daniel L. Barrow, M.D.

Magnetic Resonance Angiography: Intracranial and Extracranial Applications

Burton P. Drayer

MRI of the Spine: Technical Advances and Clinical Applications

Michael T. Modic, M.D.

Modern Computer Based Imaging for Planning and Performing Stereotactic Neurosurgery

Barton L. Guthrie, M.D.

Imaging Techniques for Functional Localization

Neil A. Martin, M.D.

10:00 a.m.-10:30 a.m.

COFFEE AND EXHIBITS

Moderators: Larry D. Tice, M.D. and Hal L. Hankinson, M.D.

Advances in Non-invasive Imaging in Neurosurgery

Marc R. Mayberg, M.D.

Presentation of Congress Resident Award

by Hal L. Hankinson, M.D.

RESIDENT AWARD PAPER

IVAR MENDEZ, M.D.

Restoration of Nigro-Striatal Synaptic Circuitry, Striatal mRNA Expression and Motor Symmetry Following Fetal Substantia Nigra Grafts

Announcement of SANS IV — Peter Black, M.D.

HONORED GUEST PRESENTATION

CHARLES B. WILSON, M.D.

Cryptic Vascular Malformations

12:15 p.m.-2:15 p.m.

LUNCHEON SEMINARS

Regular registrants should indicate the first number on registration form. Course numbers followed by "R" should be used by residents.

101/102R

Indications and Techniques for Thoracic and Lumbar Stabilization

Leader: Dennis J. Maiman, M.D.

Speakers: Charles Stillerman, M.D.,
Patrick W. Hitchon, M.D.,
Edward C. Benzel, M.D.

103/104R

Stereotactic Surgery: Indications and Techniques

Leader: Roy A.E. Bakay, M.D.

Speakers: Robert J. Macuinas, M.D., Barton L. Guthrie, M.D., Dennis E. Bullard, M.D.

105/106R

Parasagittal and Convexity Meningiomas

Leader: Francis W. Gamache, Jr., M.D.

Speakers: Robert F. Spetzler, M.D., Donlin M. Long, M.D.

107/108R

Malignant Anterior Skull Base Tumors

Leader: Kalmon D. Post, M.D.

Speakers: Donald C. Wright, M.D., Bruce E. Mickey, M.D., Stephen J. Haines, M.D.

109/110R

Surgical Treatment of Epilepsy

Leader: George A. Ojemann, M.D.

Speakers: Hwa-Shain Yeh, M.D., William O. Bell, M.D., Rosario A. Zappulla, M.D.

111/112R

Posterior Circulation Aneurysms

Leader: Roberto C. Heros, M.D.

Speakers: Fernando G. Diaz, M.D., Michael B. Pritz, M.D., H. Hunt Batjer, M.D.

113/114R

Cavernous Sinus Tumors

Leader: Laligam N. Sekhar, M.D.

Speakers: Donald A. Ross, M.D. Ossama Al-Mefty, M.D., Harry R. Van Loveren, M.D.

115/116R

Current Techniques in Lumbar Disc Disease

Leader: Christopher B. Shields, M.D.

Speakers: Joseph C. Maroon, M.D., Edward S. Connolly, M.D., Charles A. Fager, M.D.

117/118R

Adjuvant Treatment of Gliomas

Leader: Philip H. Gutin, M.D.

Speakers: Michael Salzman, M.D., Mitchell S. Berger, M.D., David G.T. Thomas, M.D.

119/120R

Carotid Endarterectomy: Current Status and Controversies

Leader: Donald O. Quest, M.D.

Speakers: Christopher M. Loftus, M.D., John R. Little, M.D., Gary G. Ferguson, M.D.

121/122R

Management of Chronic Pain

Leader: Ronald F. Young, M.D.

Speakers: Kim J. Burchiel, M.D., Yoshio Hosobuchi, M.D., Richard D. Penn, M.D.

123/124R

Shunt Techniques and Pitfalls

Leader: Harold L. Rekate, M.D.

Speakers: J. Gordon McComb, M.D., W. Jerry Oakes, M.D.

125/126R

Peripheral Nerve Injury and Repair

Leader: Alan R. Hudson, M.D.

Speakers: John E. McGillicuddy, M.D., Eric L. Zager, M.D., Charles L. Branch, Jr., M.D.

127/128R

History of Neurosurgery

Leader: Robert H. Wilkins, M.D.

Speakers: Hugo V. Rizzoli, M.D., James T. Goodrich, M.D.

129/130R

Craniofacial Reconstruction

Leader: John A. Persing, M.D.

Speakers: Kerry R. Crone, M.D., Marion L. Walker, M.D., Philip H. Cogen, M.D.

131/132R

Neurosurgical Athletic Injuries

Leader: Frances K. Conley, M.D.

Speakers: Julian T. Bailes, M.D., Arthur L. Day, M.D., Robert C. Cantu, M.D.



VIDEO LUNCHEON SEMINAR

133/134R

Ventricular Surgery

Leader: William A. Shucart, M.D.

Speakers: Edward R. Laws, M.D., Dachling Pang, M.D.



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

JOINT SECTION ON CEREBROVASCULAR SURGERY PROGRAM

Section Symposium: Bypass Revisited

Moderator: David G. Piegras, M.D.

What Has PET Told Us and Not Told Us About Hemodynamic Cerebral Ischemia and the Role of EC-IC Bypass in its Management

Robert L. Grubb, Jr., M.D.

Hemodynamic Cerebral Ischemia and EC-IC Bypass: a Neurologist's Perspective

Bruce Dobkin, M.D.

Hemodynamic Cerebral Ischemia and EC-IC Bypass: a Neurosurgeon's Perspective

Arthur L. Day, M.D.

Presentation of Resident Award

Michael Puumala, M.D.

“Intraventricular Infusion of HBGF-2 Promotes Cerebroangiogenesis in Wistar Rats”

Open Scientific Session



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

JOINT SECTION ON SPINE AND PERIPHERAL NERVES PROGRAM

Section Symposium:

Spinal Cord Injury in the Pediatric Population

Moderator: Arnold H. Menezes, M.D.

Incidence, Types of Injuries, Outcome

Richard K. Osenbach, M.D.

Radiological Aspects of Pediatric Spinal Cord Injuries

Itaka Sato, M.D.

Cervical Spine Injuries

Arnold H. Menezes, M.D.

Spinal Cord Injury Without Radiographic Abnormality

Dachling Pang, M.D.

Problems in Management

Yoon Sun Hahn, M.D.

Open Scientific Session

3:30 p.m.-4:00 p.m.

COFFEE AND EXHIBITS

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

SPECIAL COURSE II

155/156R

NEUROSURGERY IN THE YEAR 2000

Course Director and Moderator: Russell L. Travis, M.D.

Recertification in the Year 2000: Model of the Healthcare System as It Relates to Sub-Specialties in the Year 2000

Congressman Fortney H. “Pete” Stark, U.S. House of Representatives

Research and Funding in the Year 2000

Samuel O. Their, M.D., President, Institute of Medicine, National Academy of Sciences

Changing Hospital Patterns of Care Delivery

Michael Hash, Health and Environment Subcommittee, Committee on Energy and Commerce, U.S. House of Representatives

Types of Insurance Systems and Reimbursement Methods in the Year 2000

Linda Jenckes, Health Insurance Association of America

5:30 p.m.-6:15 p.m.

ANNUAL CNS BUSINESS MEETING

8:00 a.m.-12:00 p.m.
GENERAL SCIENTIFIC SESSION II
THORACIC SPINE

Presiding Officer: Arthur L. Day, M.D.
Moderators: Patrick W. Hitchon, M.D. and Carole A. Miller, M.D.

Radiology of the Thoracic Spine
George Y. El-Khoury, M.D.

Biomechanics of Thoracic Spine in Health and Disease
Dennis J. Maiman, M.D.

Thoracic Disc Disease
Charles Stillerman, M.D.

Spine Tumors: Primary and Metastatic
Richard G. Perrin, M.D.

Approaches to the Thoracic Spine
Gregory J. Bennett, M.D.

Fractures of the Thoracic Spine and Instrumentation
Regis W. Haid, M.D.

10:00 a.m.-10:30 a.m.
COFFEE AND EXHIBITS

Moderators: Michael Salzman, M.D. and Edward H. Oldfield, M.D.

Infections of the Thoracic Spine
Patrick W. Hitchon, M.D.

Update on Head & Spinal Cord Injury Prevention Program (THINK FIRST Program)
E. Fletcher Eyster, M.D.

PRESIDENTIAL ADDRESS
HAL L. HANKINSON, M.D.
Introduction: Lawrence H. Pitts, M.D.

12:15 p.m.-2:15 p.m.
200
RESIDENTS/HONORED GUEST LUNCHEON



12:15 p.m.-2:15 p.m.
LUNCHEON SEMINARS

201
Cervical Spondylosis
Leader: Paul R. Cooper, M.D.
Speakers: Setti S. Rengachary, M.D., Mark N. Hadley, M.D., Carole A. Miller, M.D.

203
Indications and Techniques for Cervical Spine Stabilization and Fusion
Leader: Volker K.H. Sonntag, M.D.
Speakers: J. Michael McWhorter, M.D., Regis W. Haid, M.D., Stephen M. Papadopoulos, M.D.

205
Surgical Management of Spasticity
Leader: Warwick J. Peacock, M.D.
Speakers: Philip L. Gildenberg, M.D., Tae Sung Park, M.D., Andrew G. Shetter, M.D.

207

Clival Tumors

Leader: Ossama Al-Mefty, M.D.
Speakers: Keith L. Black, M.D., Jon H. Robertson, M.D.,
Laligam N. Sekhar, M.D.

209

Pituitary Adenomas: Medical and Surgical Management

Leader: William F. Chandler, M.D.
Speakers: Paul B. Nelson, M.D., Robert B. Snow, M.D.,
Warren R. Selman, M.D.

211

Anterior Circulation Aneurysms

Leader: Eugene S. Flamm, M.D.
Speakers: Mitchell E. Levine, M.D., Ralph G. Dacey,
M.D., O. Howard Reichman, Jr., M.D.

213

Perioperative Management of Subarachnoid Hemorrhage

Leader: George S. Allen, M.D.
Speakers: Douglas Chyatte, M.D., Howard Yonas, M.D.,
Robert A. Soloman, M.D.

215

Tethered Spinal Cord

Leader: Peter W. Carmel, M.D.
Speakers: Robert Dauser, M.D., R. Michael Scott, M.D.,
John C. Godersky, M.D.

217

Spontaneous Intracerebral Hemorrhage

Leader: John M. Tew, M.D.
Speakers: Austin R.T. Colohan, M.D., Joseph M.
Zabramski, M.D., John R. Mangiardi, M.D.

219

Spinal AVMs

Leader: Edward H. Oldfield, M.D.
Speakers: Fernando Vinuela, M.D.,
Robert F. Spetzler, M.D.

221

Management of Brain Metastases

Leader: Richard B. Morawetz, M.D.
Speakers: Charles L. Branch, Jr., M.D.,
Donald Ross, M.D., Keith M. Rich, M.D.

4

223

Primary and Secondary Tumors of the Spine

Leader: Stewart B. Dunsker, M.D.
Richard A. Roski, M.D., Paul McCormick,
M.D., Narayan Sundaresan, M.D.

225

Management of Incidental Cerebrovascular Lesions

Leader: Steven L. Giannotta, M.D.
Speakers: Daniel L. Barrow, M.D., Marc R. Mayberg,
M.D., Daniele Rigamonti, M.D.

5

227

AIDS and the Neurosurgeon

Leader: Mark L. Rosenblum, M.D.
Speakers: Robert M. Levy, M.D., Brian T. Andrews, M.D.,
Leslie P. Weiner, M.D.



VIDEO LUNCHEON SEMINAR

229

Techniques in Aneurysm Surgery

Leader: Arthur L. Day, M.D.
Speakers: Duke S. Samson, M.D.,
David G. Piepgras, M.D., Vinko Dolenc, M.D.



**2:30 p.m.-3:30 p.m.
POSTER SESSION PRESENTATIONS**

Authors will be present for discussion

**2:30 p.m.-4:30 p.m.
WINE AND CHEESE RECEPTION**

**3:00 p.m.-3:30 p.m.
COFFEE AND EXHIBITS**

2

3

2:30 p.m.-5:30 p.m.
SPECIAL COURSE III
255/256R

FRONTIERS IN STEREOTACTIC SURGERY

Course Director: Dennis E. Bullard, M.D.

**Methods of, Indications for, and Complications of
Stereotactic Biopsies**

Philip L. Gildenberg, M.D.

**Stereotactic Craniotomies and Intraoperative Cortical and
Subcortical Mapping**

Dennis E. Bullard, M.D.

**An Overview of Stereotactically Applied Brachytherapy
and Hyperthermia**

Philip H. Gutin, M.D.



8:00 a.m.-12:00 p.m.
GENERAL SCIENTIFIC SESSION III
RADIOSURGERY AND EPILEPSY

Presiding Officer: William F. Chandler, M.D.

RADIOSURGERY

Moderators: William A. Friedman, M.D. and Peter Black, M.D.

Introduction to Radiosurgery

David B. Larson, M.D., Ph.D.

Gamma Knife Radiosurgery

L. Dade Lunsford, M.D.

Linear Accelerator Radiosurgery

William A. Friedman, M.D.

Particle Beam Radiosurgery

Jacob I. Fabrikant, M.D., Ph.D.

HONORED GUEST PRESENTATION

CHARLES B. WILSON, M.D.

Endocrine-inactive Pituitary Adenomas: Principles of Management in the 1990's

10:00 a.m.-10:30 a.m.
COFFEE AND EXHIBITS

EPILEPSY

Moderators: John R. Little, M.D. and Ralph G. Dacey, M.D.

Introduction to Epilepsy Surgery

Issam A. Awad, M.D.

Preoperative Evaluation and Patient Selection

Jerome P. Engle, Jr., M.D., Ph.D.

Surgical Techniques: Temporal Lobectomy

George A. Ojemann, M.D.

Surgical Techniques: Alternatives

Dennis A. Spencer, M.D.

PRESENTATION OF JOINT TUMOR SECTION DISTINGUISHED SERVICE AWARD

To Peter Preuss, President, Preuss Foundation for Brain Tumor Research

12:15 p.m.-2:15 p.m.
LUNCHEON SEMINARS

Regular registrants should indicate the first number on registration form. Course numbers followed by "R" should be used by residents.

301/302R

Management of Giant Aneurysms

Leader: Eugene S. Flamm, M.D.

Speakers: Jacques E. Dion, M.D., Duke S. Samson, M.D.,
Yoshio Hosobuchi, M.D.

303/304R

Lumbar Spinal Stenosis

Leader: Sanford J. Larson, M.D.

Speakers: George W. Sypert, M.D., Edward S. Tarlov, M.D., Hae Dong Jho, M.D.

305/306R

Syringomyelia and Chiari Malformation

Leader: Albert L. Rhoton, Jr., M.D.

Speakers: Ulrich Batzdorf, M.D., Dachling Pang, M.D., David G.T. Thomas, M.D.

307/308R

Anterior Third Ventricular Tumors

Leader: Raymond Sawaya, M.D.

Speakers: William A. Shucart, M.D., Robert J. Coffey, M.D.

309/310R

Approaches to the Craniovertebral Junction and Upper Cervical Spine

Leader: Volker K.H. Sonntag, M.D.

Speakers: Chandra N. Sen, M.D., Arnold H. Menezes, M.D., Donald P. Becker, M.D.

311/312R

Pineal Tumors

Leader: Bennett M. Stein, M.D.

Speakers: Michael S.B. Edwards, M.D., L. Dade Lunsford, M.D.

313/314R

Complications of Cerebrovascular Surgery

Leader: Robert A. Ratcheson, M.D.

Speakers: Robert M. Crowell, M.D., Roberto C. Heros, M.D., Daniel L. Barrow, M.D.

315/316R

EC-IC Bypass: Current Role in Ischemia and Giant Aneurysms

Leader: David G. Piegras, M.D.

Speakers: Robert F. Spetzler, M.D., Nick Hopkins, M.D.

317/318R

Advances in Aneurysm Surgery: Brain Monitoring and Protection

Leader: Robert L. Grubb, Jr., M.D.

Speakers: Fred Myers, M.D., J. Paul Muizelaar, M.D., Henry H. Batjer, M.D.

319/320R

Brainstem Gliomas

Leader: Fred J. Epstein, M.D.

Speakers: Leland A. Albright, M.D., William O. Bell, M.D.

321/322R

Management of the Failed Back

Leader: Jack E. Wilberger, M.D.

Speakers: James G. Egnatchik, M.D., Gregory J. Bennett, M.D., Sue Perlman, M.D.

323/324R

How to Attack a Malpractice Suit

Leader: W. Ben Blackett, M.D.

Speaker: Robert Packer, Esquire

325/326R

How to Read a Medical Article

Leader: Edward R. Laws, M.D.

Speakers: Clark Watts, M.D., Stephen J. Haines, M.D., Robert H. Wilkins, M.D.

327/328R

Medical and Surgical Treatment of Head Injury

Leader: Thomas G. Saul, M.D.

Speakers: Lawrence H. Pitts, M.D., Raj K. Narayan, M.D.



VIDEO LUNCHEON SEMINAR

329/330R

Surgery of the Cerebellopontine Angle

Leader: Peter J. Jannetta, M.D.

Speakers: Ronald I. Apfelbaum, M.D., Steven L. Giannotta, M.D.



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

JOINT SECTION ON TUMORS PROGRAM

Section Symposium: Management of Spinal Tumors

Co-Moderators: Narayan Sundaresan, M.D. and Mark L. Rosenblum, M.D.

Radiological Diagnosis

George Krol, M.D.

Surgical Treatment of Benign Neoplasms of the Spine

M. Vallo Benjamin, M.D.

Radiation Therapy of Primary and Metastatic Neoplasms

Jae Ho Kim, M.D.

Surgical Treatment of Primary and Metastatic Tumors of the Spine

Narayan Sundaresan, M.D.

Presentation of Preuss Resident Award

Alfred P. Bowles, M.D.

“MAOB-Anti-TGE Enhances the Alpha Cystostasis Activity of BRMs in Human Malignant Gliomas”

Open Scientific Session



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

JOINT SECTION ON TRAUMA AND CRITICAL CARE PROGRAM

Section Symposium: The Implications of Age Extremes on Closed Head Injury

Moderator: Brian T. Andrews, M.D.

Diffuse Head Injury in the Child: Treatment of ICP Elevation with Extreme Hyperventilation

Leslie N. Sutton, M.D.

Prognosis and Survival After Head Injury in the Elderly

Michael J. Caron, M.D.

Ethical Implications of Care Withdrawal in the Intensive Care Unit

John Luce, M.D.

Open Scientific Session

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

COFFEE AND EXHIBITS

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

SPECIAL COURSE IV

355/356R

ENDOVASCULAR THERAPEUTIC TECHNIQUES

Course Director: Neil A. Martin, M.D.

Description of Technology: Catheters, Embolic Material, Coils, Balloons

Jacques E. Dion, M.D.

Endovascular Therapy of Arteriovenous Malformations

Fernando Vinuela, M.D.

Endovascular Therapy for Aneurysms and Angioplasty for Vasospasm

Van V. Halbach, M.D.

Carotid Cavernous Fistulas

Stanley L. Barnwell, M.D.

Embolization for Vascular Neoplasms

Nick Hopkins, M.D.

Role of the Neurosurgeon in Endovascular Therapy: Critical Care and Surgical Management of Complications

Neil A. Martin, M.D.

Panel Discussion: Training Programs in Endovascular Therapy

Nick Hopkins, M.D., Stanley L. Barnwell, M.D., Van V. Halbach, M.D., Fernando Vinuela, M.D., and Julian T. Hoff, M.D.

8:00 a.m.-11:30 a.m.

GENERAL SCIENTIFIC SESSION IV

Presiding Officer: Thomas G. Saul, M.D.

HONORED GUEST PRESENTATION

CHARLES B. WILSON, M.D.

Glioblastoma: The Past, the Present and the Future

ACOUSTIC NEUROMAS

Moderators: Michael B. Pritz, M.D. and Neil A. Martin, M.D.

Suboccipital Approach to Acoustic Neuromas

Martin B. Camins, M.D.

Middle Fossa Approach to Acoustic Neuromas

Derald E. Brackmann, M.D.

Translabyrinthine Approach to Acoustic Neuromas

Steven L. Giannotta, M.D.

Radiosurgical Approach to Acoustic Neuromas

L. Dade Lunsford, M.D.

10:00 a.m.-10:30 a.m.

COFFEE BREAK

Panel Discussion of Controversial Cases of Acoustic Neuromas

Moderator: Julian T. Hoff, M.D., to present cases

Panel:

Julian T. Hoff, M.D., Moderator

Steven L. Giannotta, M.D.

Martin B. Camins, M.D.

Derald E. Brackmann, M.D.

L. Dade Lunsford, M.D.

Los Angeles

Congress of
Neurological
Surgeons Auxiliary
NEWS

Volume 13, No. 1 August 1990



SEE YOU IN L.A.!

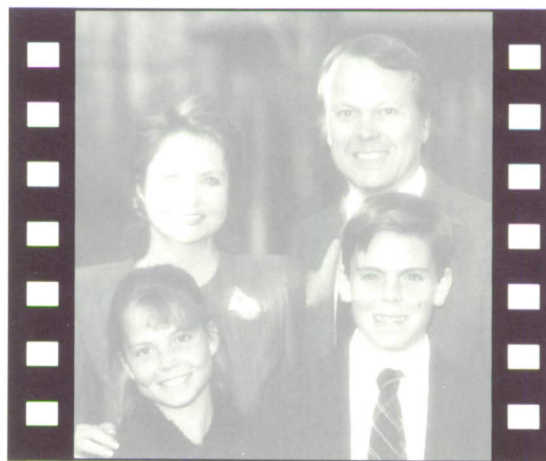
"L.A.'s The Place" is more than just a catchy phrase and we'd like to show you why!

The 40th Annual Meeting of the Congress of Neurological Surgeons will take place in this exciting city from Saturday, October 20 to Thursday, October 25, 1990. We are most fortunate that the meeting will be held at the Century Plaza – a beautiful hotel located minutes from Beverly Hills and the famous Rodeo Drive. The activities will be exciting, educational and entertaining and the memories you take home we hope will be as warm and lovely as the weather!

About the President . . .

Hal and Donna Hankinson met on a "blind date" in Honolulu one week before the start of his Residency which was in San Francisco at the University of California. They were married in 1971, and moved to New Mexico in 1975, just three weeks before their first child was born. Todd is now 15 and a sophomore at the Albuquerque Academy where he is on the varsity tennis team. Their daughter Sam is 13 and in the 8th grade at the Academy where she plays basketball and soccer. She spends the rest of her time with her horse, Prairie Flower, a hunter/jumper.

Home is an adobe (mud) house at the end of a dirt road in the village of Corrales, a long way from the palm trees of Hawaii and the plains of Texas where Donna and Hal were respectively raised!



Hankinson Family

Welcome to Los Angeles and the Auxiliary Program for the 1990 Congress of Neurological Surgeons.

WEATHER AND DRESS

Temperatures during October range from 70 to 80 degrees with low humidity. Sportswear is the dress mode for daytime Los Angeles. Some restaurants require jackets and ties for men, but most do not. Women will find a sweater or lightweight jacket comfortable, since most evenings are cool.

SATURDAY, OCTOBER 20, 1990

451

Verdi Ristorante Di Musica

6:15 p.m.-10:30 p.m.

Your guests will be treated to a unique experience at this "ristorante di musica." Verdi is the brainchild of Bernard and Sheila Segal who transformed this landmark building (formerly a mortuary!) into a location where opera and wonderful Northern Italian cuisine prove to be a perfect marriage.

The entertainment for the evening, featuring Broadway tunes and light opera, is provided by the singers, all attractive young professionals.

452

Cirque Du Soleil

7:30 p.m.-11:30 p.m.

Cirque du Soleil, an extraordinary carnival odyssey from Montreal, offers a series of breathtaking scenes charged with human emotion and rhythmically tied together. Spectators will be overwhelmed by a myriad of images plunging them into the world of the imagination. A magical, joyous show will transport you into a glorious orbit of colored lights, brilliant costumes, and enrapturing sound.

The ringmaster and "lion" tamer are both clowns, the "animals" are all homo sapiens, the thrills come as much from artistry as from danger in this intimate one-ring show inside a blue and gold tent.

In essence, Cirque is a thinking-person's circus — dazzling to child and adult alike — that blends street-performance art and European circus traditions to create a heady, sophisticated brew.

SUNDAY, OCTOBER 21, 1990

525

City of Roses

9:00 a.m.-4:15 p.m.

The City of Pasadena is one of California's most delightful and beautiful residential areas. Join us today and experience two of its most outstanding and impressive landmarks.

Our first stop will be at the Norton Simon Museum of Art. Here you will see one of the finest collections of Old Master and Impressionist paintings as well as tapestries and sculpture. Some of the artists whose works are on display include Rembrandt, Reubens, Renoir, Picasso, Degas, Monet and Van Gogh.

Next, it is on to the breathtakingly beautiful Huntington Gardens and Library. This 207 acre estate was once the home of Henry E. Huntington, a pioneer railroad tycoon and philanthropist. The art collection emphasizes English and French painting of the 18th Century and includes Gainsborough's "Blue Boy". The extensive gardens include a Shakespearean garden and a Japanese garden with a 16th Century teahouse. Lunch will be provided at the Garden Terrace restaurant on the grounds.

This tour will definitely be a feast for your eyes!

526

Art Lovers Special

11:00 a.m.-4:00 p.m.

This tour has been created especially for our group in order to let you experience the diversity of culture that surrounds you through history and art.

The history of the American West unfolds at the Gene Autry Western Heritage Museum, one of LA's newest and most popular museums. Your "walk through history" will reveal the promise, expectations and experiences of individuals and families who traveled West in search of gold, land and glory!



Gene Autry Western Heritage Museum

Next, travel to the world of art and visit "MOCA", the Museum of Contemporary Art which opened in 1986. Both the building (reputed to be one of the most important pieces of architecture to appear in LA in years) and its contents (works by Rauschenberg, Oldenberg, Nevelson and Rothko) will dazzle, amaze and please your senses!

527

Treasures By The Sea

12:30 p.m.-4:00 p.m.

From the Century Plaza, you will be treated to a scenic coastal drive northward to Malibu. The craggy cliffs and sprawling beaches are the site of a wide array of beach homes, from rustic cottages to sprawling estates.

Some of the world's finest and most treasured antiquities are displayed at the J. Paul Getty Museum. Because Mr. Getty willed most of his estate to this museum, the collection continues to grow and is claimed to be the richest museum in the world. The buildings and grounds are a re-creation of the Villa dei Papyri, a Roman villa once located on the Mediterranean. Statuary, paintings, and other such decorative arts are yours to enjoy while indulging in this visual sampling of ancient cultures . . . a most remarkable museum tour! There is a tea room available for refreshments.

528

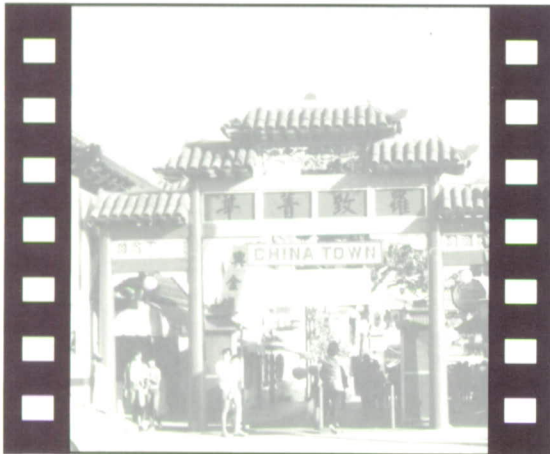
Los Angeles Highlights

1:00 p.m.-5:00 p.m.

Share the highlights of a unique city!

Visit Olvera Street, a re-created Mexican village and the birthplace of Los Angeles.

See the Music Center where the Ahmanson Theatre, Dorothy Chandler Pavilion and Mark Taper Forum surround a broad plaza with a lovely reflecting pool.



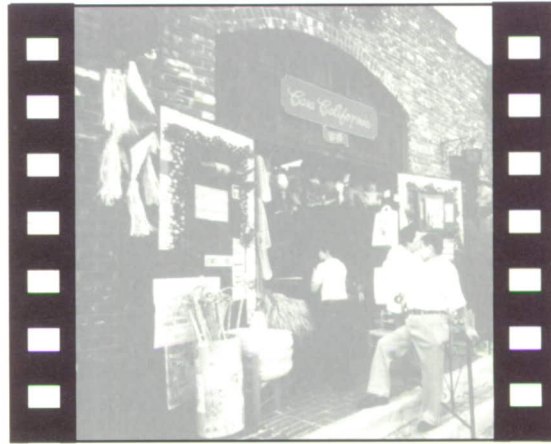
Chinatown

Chinatown, dating back to the Gold Rush, includes Chinese designs with exaggerated curving roof lines and abundant ornaments.

Little Tokyo, the heart of the Japanese-American community is a mix of late 19th-century commercial buildings and modern structures. In the nostalgic tinseltown of Hollywood, see the Capitol Records Building

and the famous HOLLYWOOD sign. A stop at Mann's Chinese Theater will allow you to match your hand and footprints with the stars!

Finish at Farmer's Market, a unique international marketplace that is not only a gourmet's delight, but also a shopper's paradise!



Farmer's Market

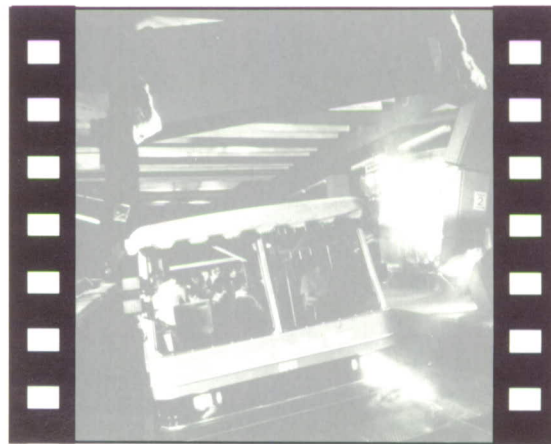
501-504

"Opening Night" at Universal

6:30 p.m.-11:00 p.m.

Join us for the formal "opening" of the 40th annual CNS meeting at Universal Studios . . . the ultimate Hollywood "happening"! This is the perfect opportunity to mingle with friends and to experience the magic of movie making.

After you arrive at Universal, you will board a private tram for a tour of the Studio's major attractions. You will see sets, buildings and facades that were created for many famous movies and TV shows. Your journey will include an unforgettable visit with some of Hollywood's greatest special effects, i.e. "King Kong" and the new "8.0 Earthquake"!



Universal Studios

As the tour ends, you will enter a lavish reception at "Streets of the World", the site of three

major film areas. Here we will have a Hollywood "backlot" party with each area enhanced by food, music and entertainment.

This should be an entertaining, informative and fun evening. We hope to see you at "Opening Night"!

MONDAY, OCTOBER 22, 1990

529/530

A Day in The Magic Kingdom of Disneyland

9:00 a.m.-4:30 p.m.

Disneyland is a world where adventure and enchantment find expression in numerous places and ways.

Along Main Street U.S.A., sample the flavor of a typical American thoroughfare circa, 1890. In tropical Adventureland, explore a challenging wilderness. New Orleans Square, with its elegant shops, recreates the lively mood and gracious setting of the French Quarter. Frontierland celebrates the saga of America's move West. In Tomorrowland, step effortlessly into the excitement and wonder of the future. Fantasyland invites you to the world of the young at heart – the happiest kingdom of all!!!

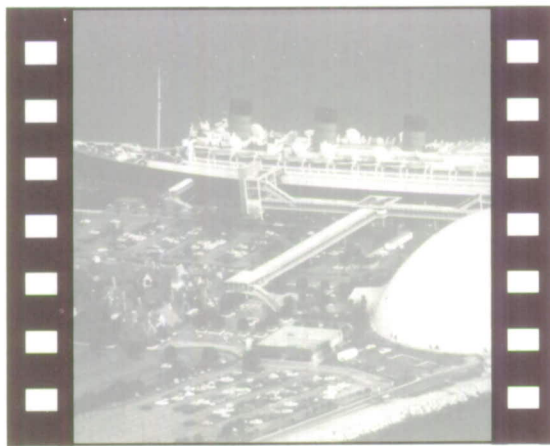
This is Disneyland . . . land of many kingdoms . . . land of irresistible fun!

531/532

Port Adventure

9:30 a.m.-4:00 p.m.

Your day will begin with a tour of the exciting *Spruce Goose*, Howard Hughes' legendary aircraft that has been "under wraps" since 1947. The largest plane ever built, it features a wingspan of 320 feet, which is longer than a football field.



Queen Mary

The next stop on your day's adventure is the majestic *Queen Mary*, the world's largest ocean liner afloat. She has made over 1000 Trans-

Atlantic crossings and is over 1000 feet long. From the wheelhouse you can see a panoramic view of the California coastline. You will also visit the Hall of Maritime Heritage which features an extensive collection of model ships. The skill of model making is also demonstrated. All in all you will see 12 decks of exciting exhibits, travel 3 miles of teak decking and acquire a rare nautical insight into ocean travel.

533

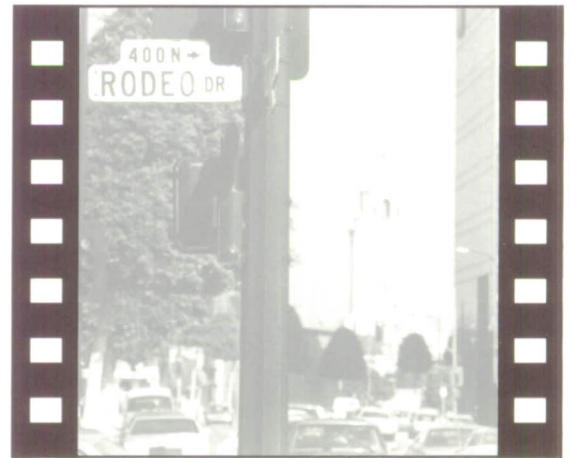
Beverly Hills Shopping Shuttle

10:00 a.m.-4:00 p.m. — Complimentary

Along Rodeo Drive, in the heart of the Beverly Hills shopping district, you will encounter the West Coast's home of high fashion. Few places on earth manage to accommodate luxury with such silken assurance.

Among the fabulous stores lining Rodeo Drive are: Van Cleef and Arpels, Gucci, Elizabeth Arden, St. Laurent/Rive Gauche and Chanel.

You might want to visit an art gallery and enjoy a unique display of today's contemporary artists. You will be able to admire the work of world reknown painters such as Leroy Nieman, Dali and Papart.



Rodeo Drive

534

Behind the Scenes of Hollywood

1:15 p.m.-5:30 p.m.

Today you will experience an exclusive tour of one of the world's famous movie and television studios. On your visit to Paramount you will see sound stages, movie and TV sets from such series as *Cheers*, *Star Trek* and *Arsenio Hall*. You will see prop houses, and maybe even an actor or two! This tour will leave you with a better understanding of the film industry.

Next, it is on to one of the "hottest" new shopping streets – Melrose Avenue . . . this street is filled with trendy boutiques (such as Olivia

Newton-John's "Koala Blue") and cozy restaurants – a perfect place for an afternoon stroll!

535
Main Street Santa Monica
1:30 p.m.-5:30 p.m.

We will provide transportation to charming Main Street in nearby Santa Monica. From Venice Beach and the Santa Monica Pier to the chic restaurants and shops, this is a delightful way to spend an afternoon. We will give you a map, but otherwise you will be "on your own" to browse and enjoy this fun street.

505
An Evening at The Improv
6:00 p.m.-10:45 p.m.

Enjoy dinner and a laugh-filled evening at one of the hottest nightclubs in Los Angeles. The most exciting young talent in the country develop their skills before your very eyes and the ever-watchful eyes of the Industry . . . waiting to discover the next Robin Williams, Bette Midler, Richard Pryor, or Rodney Dangerfield.

Have fun mixing with the celebrities and show people in Hollywood! Price includes dinner show and two drinks during the show.

TUESDAY, OCTOBER 23, 1990

506
Fun Run and Walk
6:15-7:15 a.m.

Join your colleagues at the Annual Fun Run at a nearby park. Walkers are also encouraged to begin the day with a brisk morning walk.

Fun Run T-Shirts

The official Fun Run T-Shirt for Los Angeles is available in both adult and children's sizes. Be sure and order your souvenir of this year's meeting.



Advanced Registration – Remember – The registration for the Auxiliary Activities is included on the Advance Registration Form for the meeting. Let your spouse know what activities you would like to attend!!

“THE WEEK AT A GLANCE”

	Saturday Oct. 20th	Sunday Oct. 21st	Monday Oct. 22nd	Tuesday Oct. 23rd	Wednesday Oct. 24th	DAILY
MORNING		City of Roses 9:00am-4:15pm Art Lovers Special 11:00am-4:00pm	A Day in the Magic Kingdom of Disneyland 9:00am-4:30pm Port Adventure 9:30am-4:00pm Beverly Hills Shopping Shuttle 10:00am-4:00pm	Fun Run and Walk 6:15am-7:15am Auxiliary Educational Seminar 9:00am-11:00am Presidential Address 11:15am-12:00pm	Auxiliary Educational Seminar 9:00am-11:00am Annual Luncheon and Fashion Show 11:30am-3:00pm Optional Shopping 3:00pm-5:30pm	Hospitality Suite 8:00am-10:00 am 2:00pm-5:00pm Daily aerobics available on your own.
AFTERNOON		Treasures By The Sea 12:30pm-4:00pm Los Angeles Highlights 1:00pm-5:00pm	Behind the Scenes of Hollywood 1:15pm-5:30pm Main Street Santa Monica 1:30pm-5:30pm	Huntington Library, Gallery and Gardens 12:15pm-5:30pm Los Angeles Highlights 2:30pm-6:30pm Port Adventure 2:30pm-8:30pm		
EVENING	Verdi Ristorante di Musica 6:15pm-10:30pm Cirque du Soleil 7:30pm-11:30pm	"Opening Night" at Universal 6:30pm-11:00 p.m.	An Evening at the Improv 6:00pm-10:45pm	Jerome Robbins' Broadway 8:00pm-11:00pm Phantom of the Opera 6:45pm-11:45pm	Annual Reception and Banquet 7:15pm-1:00am	



536
Auxiliary Educational Seminar
9:00 a.m.-11:00 a.m.

"Today's Movies and How They Got That Way."

What are the trends in films over the last several decades and how do they reflect changes in society?

Find out about the era of change in film and why Hollywood may never be the same again.

Frank Beaver, noted author, lecturer, film reviewer and academician tells all!



Frank Beaver

Presidential Address
11:15 a.m.-12:00 noon

Hal L. Hankinson, M.D. will speak at the Century Plaza Hotel. All are invited to attend.

537
Huntington Library, Gallery and Gardens
12:15 p.m.-5:30 p.m.

Our day will begin with a scenic drive along the tree shaded streets of Pasadena. The opulent homes of the city enhance your journey to the renowned Huntington Library and Gardens.

This 207 acre estate was once the home of Henry E. Huntington, a pioneer railroad tycoon and philanthropist. The art collection emphasizes English and French painting of the 18th century and includes works such as Gainsborough's "Blue Boy" and Lawrence's "Pinkie". The gallery also exhibits an impressive collection of English and French porcelains, tapestries, graphics, drawings, and furniture. The extensive gardens include a Shakespearean garden and a Japanese garden, with a 16th century teahouse. Lunch is included.

538
Los Angeles Highlights
2:30 p.m.-6:30 p.m.

Same Tour as Sunday. See description on pg. 21.

539/540
Port Adventure
2:30 p.m.-8:30 p.m.

Same Tour as Monday. Dinner is included. See description on pg. 22.

An Evening at The Theatre

Your Choice of:

513
Jerome Robbins' Broadway
8:00 p.m.-11:00 p.m.

Straight from New York this award winning musical is now at the Shubert Theatre across the street from the Century Plaza Hotel.

or

514
Phantom of The Opera
6:45 p.m.-11:45 p.m.

A smash hit in London, "Phantom of the Opera" could justifiably be called one of the most successful musicals of all time. Based on the chilling yet heartrending classic novel by Gaston Leroux, Andrew Lloyd Webber's version of the tale is a gem in an already glittering setting.

The ultimate theatrical experience offers inspired wizardry coordinating a wide range of theatrical talents, from director Hal Prince and designer Maria Bjornson, to a magnificent cast including Dale Kristien as Christine, Reece Holland as Raoul and Robert Guillaume as The Phantom. Ticket price includes transportation to the Ahmanson Theatre.

Tickets to both shows are limited. Please reserve early.

WEDNESDAY, OCTOBER 24, 1990

541
Auxiliary Educational Seminar
9:00 a.m.-11:00 a.m.

"The Inside Scoop on Hollywood: Who Does What to Whom and Why?"

Bonnie Dore, award winning executive producer, owner of her own television production company and former president of Women in Film, joins her friend and former professor, Frank Beaver, noted author, lecturer and film reviewer to discuss the issues and realities confronting today's television and film producers.

A Hospitality Suite is planned for Sunday – Wednesday from 8:00 a.m.-10:00 a.m. and from 2:00 p.m.-5:00 p.m.

542

Avante Garde Fashion Show

11:30 a.m.-3:00 p.m.

Optional Shopping

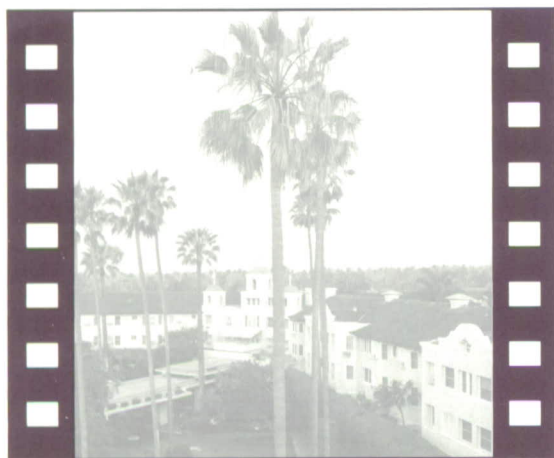
3:00 p.m.-5:30 p.m.

Join us today for the annual business meeting and luncheon at the famous Beverly Hills Hotel. One of Los Angeles' landmarks, this gracious hotel is located in one of the most opulent residential areas in Los Angeles.

Peek into the Polo Lounge where multi-million dollar deals are made . . . stroll the beautiful grounds where stars stay in the bungalows . . . and finally arrive in the Crystal Room, the perfect setting for our Auxiliary luncheon and spectacular fashion "SHOW"! We have arranged a delicious lunch and a truly exciting show produced just for our group.

Afterward, return by bus to the Century Plaza Hotel or spend a few hours shopping on Rodeo Drive. The last bus will return from Rodeo Drive at 5:30 p.m.

This promises to be a relaxing, delicious, and "fashionable" afternoon!



Avante Garde Fashion Show

515

Annual Reception and Banquet

7:15 p.m.-1:00 a.m.

Step back into 1940's Hollywood glamour. The Ballroom will be turned into one of the famous Hollywood nightclubs – The Club Mocambo. Who knows who you might see . . .

The Golden Days of Hollywood were star-studded dreams of glory. Truck drivers became matinee idols; teenage girls were turned into glamorous sirens overnight.

The Mocambo was a Sunset Boulevard playground for tinseltown's greats. At its height, all the names, from Lana Turner to Betty Grable were there. Here Hedda Hopper and Louella Parsons vied for celebrity scoops.

Frank Sinatra, Johnny Ray, Dean Martin . . . they all performed here. Cliquish and exclusive, the Mocambo was a place where legends were made. It was the "who's who" that filled the pages of daily "Hollywood Reporters".

Every night was an adventure and a discovery. So put on your trendiest best and journey back in time to the late great days of glamour and whimsy and be a star at tonight's "Club Mocambo!"

"TIDBITS"

Daily aerobics will be available "on your own" at the health club in Century City (adjacent to hotel). Full health club facilities available for registered guests (there is a fee).

DO NOT FORGET – Deadline for Housing and Registration is September 19, 1990.

Name Badges must be worn for entry into the Hospitality Suite. To help others get to know you, please register and wear your badge at all times. Additionally, they are required for admission into the General Sessions or the Exhibits Area, where you can view the latest neurosurgical products.



THE STARS OF OUR SHOW

Sue and Bill Chandler

Scientific and Educational Chairmen



Sue Chandler

Bill and Sue Chandler both grew up in Michigan and met when they attended the same high school in the suburban Detroit area. They became reacquainted eight years later when Bill was in medical school at the University of Michigan and were married one year later. Bill stayed on for his neurosurgery training at the University of Michigan and Sue completed her Masters Degree in Social Work also in Ann Arbor. After completing residency, they spent six months at the Karolinska Institute in Stockholm, Sweden,

where their second son was born. After two years on the faculty at Louisiana State University in New Orleans, they moved back to Ann Arbor where Bill has been on the faculty at the University of Michigan since 1979. Bill is now Professor of Neurosurgery and is currently the Vice-President of the Congress. Sue is employed counseling families affected by substance abuse and leading support groups for children of alcoholics.

Sue and Bill have two boys, Scott and Jesse, ages 15 and 12, who are active in school and sports activities. As a family the Chandlers enjoy skiing, tennis and traveling together.

**Rhoda and Gordon McComb
Local Arrangements Chairmen**

Rhoda and Gordon McComb have lived in Los Angeles for the past 15 years. They have three children, Nancy, John, and Ethan. They also have a son-in-law, Val, and their latest addition, a grandson, Val. The McCombs are great sports fans and enjoy attending Dodgers, Trojans, Raiders, and occasionally Lakers and Kings games. Gordon is an avid gardener who boasts an assortment of fruit trees, vegetables, and flowers which Rhoda harvests. The McCombs are looking forward to welcoming all of you to the Congress meeting in this interesting and varied city.



Rhoda and Gordon McComb

**Joan and Martin Camins
Annual Meeting Chairmen**

Martin and Joan Camins have each lived in New York City for twenty years, thirteen of them together. While Martin was training at Columbia Presbyterian's Neurological Institute (under the keen eyes of Dr. Lawrence Pool, Dr. Lester Mount, and Dr. E.B. Schlesinger) learning to cut in straight lines, Joan practiced drawing straight lines at Columbia University's Graduate School of Architecture a few miles downtown. Soon Joan switched from using her line drawing skill to define buildings, to using the skill in underlining financing documents at

Salomon Brothers. Martin on the other hand, quickly cut across town to join the neurosurgery departments at The Mount Sinai and Lenox Hill Hospitals, where he remains today.

Both Martin and Joan pack their weekdays with work and then pack for the weekend, heading for their home in Peapack – where they garden, golf and goof off – or for the closest neurosurgery meeting site.



Joan and Martin Camins

M-I-C-K-E-Y M-O-U-S-E

The magical city of Orlando will serve as the site for the 41st Annual Meeting. Recently designated the #1 tourist destination in the U.S., the area offers Disney World, Sea World, Epcot, MGM and Universal Studios, theme parks, as well as Cypress Gardens and Cape Canaveral nearby.

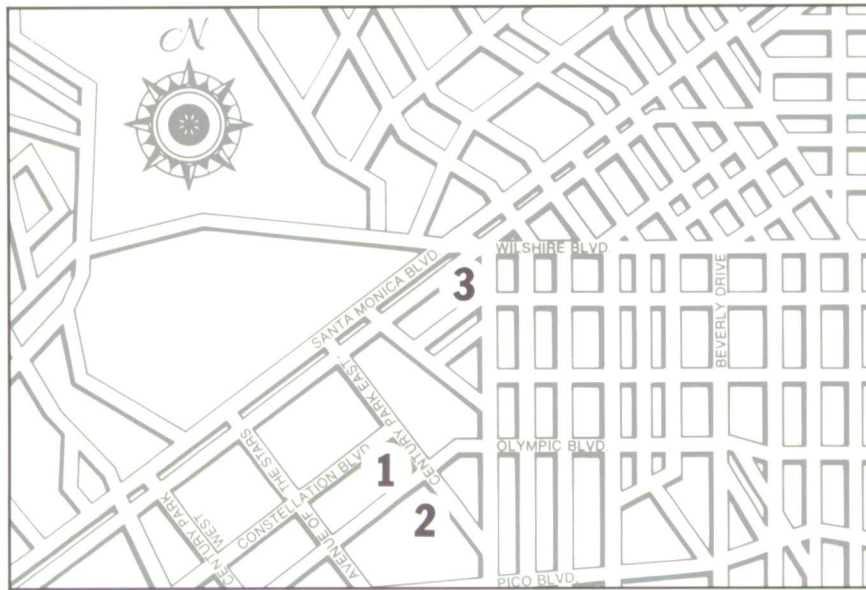
Michael and Ilene Salcman are making grand plans for a very special family-oriented meeting. The Marriott World Center is a superb facility, offering resort ambience and amenities to its guests. Shamu will greet meeting attendees at the gala Opening Reception at Sea World, complete with killer whales, a water show, and fireworks. Mark your family calendar now – October 26-31, 1991.



Salcman Family

The Auxiliary Board would like to take this opportunity to thank all the dedicated people who have worked so hard to make this meeting an interesting and informative event.

HOTEL RESERVATIONS



Official CNS Hotels

	Rates		
	Single	Double	Suite

Health Facilities

1 Century Plaza Hotel

Main Building	\$145/175	\$175/205	From \$275
Towers	\$195/215	\$225/245	From \$1000

2 Pools on premises. Health Club & Spa adjacent to hotel

2 JW Marriott Hotel \$190 \$210

2 Pools, Sauna, Steam Room, Workout Room

3 Beverly Hilton Hotel \$160 \$180
(JCSNS Headquarters)

Pool, Workout Room

- To receive the special CNS discounted convention rate, the enclosed form must be used to make your hotel reservations.
- All scientific meetings will be held at the Century Plaza Hotel.
- There will be a shuttle bus running throughout the day between the Century Plaza Hotel and the Beverly Hilton Hotel.
- All room charges are subject to state and local taxes, currently 12%.
- Reservations are processed on a first-come, first-served basis until September 19th. If the room rate or hotel requested is unavailable, one at the nearest rate will be assigned. After September 19th, convention rates may not apply and the Housing Bureau will be working on an availability basis.
- After receipt of your housing request, confirmation will be mailed directly from the hotel. Please allow four weeks for processing.
- No telephone reservations will be accepted. **Changes in arrival/departure or cancellations are to be made with the Housing Bureau at 213-488-0211 until September 19th.** After that date, please contact the hotel directly.
- Because of the various price categories, early reservations are strongly suggested. It is imperative that you indicate your second and third choice.
- Reservations are held until 6:00 p.m. It is necessary to guarantee the reservation via credit card number on the housing reservation form for late arrival.

IMPORTANT AIR TRAVEL NEWS

FOR CONGRESS OF NEUROLOGICAL SURGEONS ANNUAL MEETING

LOS ANGELES
OCTOBER 20-25, 1990

The Congress of Neurological Surgeons has negotiated special rates with United Airlines and Delta Airlines to offer you savings on air travel to Los Angeles, October 20-25, 1990.

A special 5% BONUS off most United and Delta Airlines published round trip fares* within the United States and San Juan will be available (this ranges from first class to discounted maxsaver fares), providing all rules and conditions of the airfare are met. Hertz rental cars at the convention rate can also be booked through the United Airlines reservation desk.

AS AN ADDED BONUS, if you are unable to meet the restrictions of the many discounted airfares available from United and Delta Airlines, a special 40% discount off normal Coach fares will be offered. This special rate provides for greater flexibility in your travel plans with less restrictions.

Call United or Delta Airlines toll free 8:00 AM – 8:00 PM Eastern Time Daily.

Mention the Special File Number when making reservations

UNITED AIR LINES
800-521-4041
File No. 0156J

DELTA AIRLINES
800-241-6760
File No. M0018

SPECIAL NOTE: If you prefer the services of a travel agent, have them call United or Delta Airlines toll free at the numbers above to obtain these special convention rates.

These discounts are available only through United or Delta Airlines toll free numbers, so call today! We look forward to welcoming you to Los Angeles!

*Some promotional fares discounted greater than 75% off the normal round trip coach fares may not be included in this offer.



**DELTA**
AIR LINES

Congress of Neurological Surgeons
Annual Meeting Office
22 South Washington Street ■ Park Ridge, Illinois 60068
(708) 692-9500

The mauve pages of this preliminary program may be removed, for review by your spouse. This envelope is included for your convenience in sharing this information.