

CONGRESS OF NEUROLOGICAL SURGEONS  
36th ANNUAL MEETING



# PRELIMINARY PROGRAM

SEPTEMBER 14-19, 1986  
NEW ORLEANS HILTON  
NEW ORLEANS, LOUISIANA

CONGRESS OF NEUROLOGICAL SURGEONS

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Dear Colleague:

The 36th Annual Meeting of the Congress of Neurological Surgeons will take place September 14 - 19, 1986 in New Orleans. "New Frontiers In Neurosurgery" will be this year's theme highlighted by our honored guest, Dr. Gazi Yasargil, who will recount the origins of microsurgery and demonstrate the limits to which it can be taken.

The Mississippi River will provide a scenic backdrop for a superb social program. The Annual Meeting and Local Arrangements Committees have outdone themselves to provide you with an authentic flavor of New Orleans including the best Cajun and French Cuisine.

It should be a lovely time of year with excellent weather expected. The Scientific and Social Program are great, so plan to be there. I'll look forward to seeing you.

Yours sincerely,

A handwritten signature in blue ink that reads "Joseph C. Maroon". The signature is fluid and cursive.

Joseph C. Maroon, MD  
President

# SUNDAY

September 14<sup>th</sup>

## PRACTICAL COURSES—LIMITED REGISTRATION

- 9:00 am - 12:00 pm 001. Neurosurgical Spinal Stabilization  
Part 1  
and  
1:30 pm - 4:30 pm Part 2  
Course Director: Stewart E. Dunsker  
Faculty: Edward Connolly, Barth Green,  
Russell Hardy, Sanford Larson and  
George Sybert
- 8:30 am - 12:00 pm 002. Hands-on Dissection of the  
Brachial Plexus  
Course Director: David G. Kline  
Faculty: Alan Hudson, Leo Happel,  
Vernon Van Bolden and Marilyn Zimney
- 1:30 pm - 4:30 pm 003. CT-Guided Stereotaxis  
Course Director: William A. Friedman  
Faculty: Robert J. Coffey and  
Theodore S. Roberts
- 1:30 pm - 4:30 pm 004. Intraoperative Ultrasound: Localization and  
Instrumentation  
Course Directors and Faculty: George J.  
Dohrmann, III and Jonathan Rubin
- 1:30 pm - 4:30 pm 005. Instrumentation for Pain Control  
Course Director: David L. Kasdon  
Faculty: Richard North, Richard Penn and  
Nicholas Barbaro
- 1:30 pm - 4:30 pm 006. Practical Aspects of Intraoperative Evoked  
Potential Monitoring  
Course Director: Walter J. Levy and  
Joseph H. Hahn  
Faculty: Donald H. York

A WINE AND CHEESE RECEPTION, hosted by the exhibitors, will take place on Sunday afternoon, September 14, from 3:00 - 6:00 pm. Plan to greet your friends and spend a leisurely afternoon touring the exhibits.

MONDAY

September 15<sup>th</sup>

## SPECIAL COURSES - LIMITED REGISTRATION

- 8:00 am - 11:45 am **COURSE 051/052R** Magnetic Resonance Imaging: Present and Future  
Moderator: L. Nick Hopkins and Roberto C. Heros  
A. Basic Physics of MRI for Neurosurgeons—L. Nick Hopkins  
B. MRI in Cerebrovascular Disease—Meredith Weinstein  
C. MRI-Craniovertebral Junction and Spine—Michael D.F. Deck  
D. MRI, PET and Brain Tumors—David Thomas  
E. MRI of the Future: Spectroscopy and Paramagnetics—Michael D.F. Deck  
F. Cranial CT and MRI: Comparison and Pitfalls: Panel Discussion—Meredith Weinstein, L. Nick Hopkins, David Thomas, Michael D.F. Deck
- 8:00 am - 11:45 am **COURSE 053/054R** Neurosurgical Manipulation of Neurotransmitters  
Moderators: David L. Kasdon and Martin B. Camins  
A. Neurotransmitters in the CNS: An Overview—Joe Martin  
B. CSF Physiology and Flow: Practical Application—James Wood  
C. Alterations of Neurotransmitters in Degenerative Disease—Ted Munsat  
D. Spinal Pharmacology of Pain Modulation—Tony Yaksh, Ph.D.  
E. Spasticity and Pain: CSF Modulation—Richard Penn  
F. Neuropeptides and Psychiatric Disease—Stewart Yudofsky
- 1:00 pm - 4:30 pm **COURSE 055/056R** Cerebrovascular Disease  
Presiding Officer: Joseph C. Maroon  
Moderators: J. Michael McWhorter and Arthur L. Day  
A. History of Microneurosurgery—P. Donaghy  
B. Surgery for Cerebrovascular Disease for Aneurysms and Angiomas—M. Gazi Yasargil

Local gourmet delights will be featured at the WELCOMING COCKTAIL PARTY on Monday evening, beginning at 6:30 pm.

# TUESDAY

September 16<sup>th</sup>

6:30 am - 7:45 am Residents Breakfast (099)

## GENERAL SCIENTIFIC SESSION I

### VASCULAR DISEASE

8:00 am - 12:15 pm

Presiding Officer: Joseph C. Maroon  
Moderators: J. Michael McWhorter and John R. Little

8:00 am - 9:30 am Prospects for Future Improvement in the Treatment of Aneurysms—Bryce Weir  
Future of Carotid Endarterectomy: A Neurologist's Perspective—John Conomy  
Future of Extracranial-Intracranial Arterial Bypass—Thoralf Sundt

9:30 am - 10:00 am HONORED GUEST PRESENTATION—  
M. Gazi Yasargil  
Neurosurgical Reflections

10:00 am - 10:45 am COFFEE BREAK

10:45 am - 11:15 am SPECIAL LECTURE—Paul Starr  
Who Will Control the Future Practice of Medicine?

11:15 am - 11:45 am Survival of Neurosurgery in Changing Legal and Economic Times—Donald Stewart

11:45 am - 12:15 pm PRESIDENTIAL ADDRESS—Joseph C. Maroon

12:30 pm - 2:00 pm LUNCHEON DISCUSSION GROUPS (101-120)  
or  
HOW I DO IT SESSIONS (121-140)

2:15 pm - 3:45 pm SPECIAL INTEREST WORKSHOPS (141-148)

4:00 pm - 5:30 pm SPECIAL INTEREST WORKSHOPS (149-156)

CONTINENTAL BREAKFAST will be served each morning from Monday through Friday in the Chemin Royale Foyer outside the Grand Ballroom from 7:00 - 7:45 am.

## LUNCHEON DISCUSSION GROUPS (101-120)

- 101 Role of the Neurosurgeon in the Multiple-Injury Patient  
102R Moderator: Larry Pitts  
Speaker: Thomas Saul
- 103 Spinal Procedures for Intractable Pain  
104R Moderator: Douglas Kennemore  
Speaker: Blaine Nashold
- 105 Surgical Management of Vertebral-Basilar Insufficiency  
106R Moderator: Fernando Diaz  
Speaker: L. Nick Hopkins
- 107 Neuropsychological Outcome after Subarachnoid Hemorrhage  
108R Moderator: Michael Apuzzo  
Speaker: Richard Strubb
- 109 Carotid Ligation: Methods and Indications  
110R Moderator: Roger Countee  
Speaker: Roberto Heros
- 111 Management of Thoraco-Lumbar Fractures  
112R Moderator: Donald Erickson  
Speaker: Wesley Cook
- 113 Management of Meningomyelocele  
114R Moderator: Ken Shapiro  
Speaker: Peter Carmel
- 115 Current Status of Glioma Immunotherapy  
116R Moderator: Ed Neuwelt  
Speaker: Nicholas de Tribolet
- 117 Management of Acute Spinal Cord Injury  
118R Moderator: George Dohrmann  
Speaker: Fred Geisler
- 119 Surgical Management of Intramedullary Tumors  
120R Moderator: Jeffrey Wisoff  
Speaker: Hiroshi Abe

## HOW I DO IT SESSIONS (121-140)

- 121 Management of Trigeminal Neuralgia  
122R Moderator: Robert Wilkins  
Speaker: Ron Apfelbaum
- 123 Operative Tools for Tumor Surgery: Laser, CUSA, Bipolar, etc.  
124R Moderator: Leonard Malis  
Speaker: John Tew
- 125 Management of Low Grade Gliomas  
126R Moderator: Michael Salzman  
Speaker: Edward R. Laws, Jr.
- 127 Recurrent Cystic Craniopharyngiomas  
128R Moderator: Derek Bruce  
Speaker: James Taren
- 129 Venous and Vein of Galen Malformations  
130R Moderator: Neal Martin  
Speaker: J. Parker Mickle
- 131 Management of Delayed Ischemia Following Subarachnoid Hemorrhage  
132R Moderator: Neal Kassell  
Speaker: Bryce Weir
- 133 Surgical Management of Spinal Infections  
134R Moderator: Russell Hardy  
Speaker: Fremont P. Wirth
- 135 Harrington Rod Instrumentation  
136R Moderator: Richard Roski  
Speaker: George Sybert
- 137 Surgical Therapy of Skull Base Tumors  
138R Moderator: Robert Spetzler  
Speaker: Laligam Sekhar
- 139 Anterior Approaches to Craniocervical Junction Lesions  
140R Moderator: Alan Crockard  
Speaker: Arnold Menezes

The VIDEOTAPE LIBRARY will be available for viewing throughout the week.  
New tapes as well as selections from the permanent library will be shown.

## SPECIAL INTEREST WORKSHOPS (141-156)

2:15 pm - 3:45 pm

- 141 Practical Considerations in Peripheral Nerve Injuries  
142R Moderator: David Kline  
Speakers: William Friedman, Alan Hudson and David Kline
- 143 Frontiers in Pituitary Surgery  
144R Moderator: Edward R. Laws, Jr.  
Speakers: Joe Martin, Paul Nelson and Edward R. Laws, Jr.
- 145 Complications of Cerebrovascular Disease  
146R Moderator: George Allen  
Speakers: John R. Little, Roberto Heros and George Allen
- 147 Metastatic Disease of the Spine  
148R Moderator: Russell Hardy, Jr.  
Speakers: Lisa Rodgers, Narayan Sundaresan and Russell Hardy

4:00 pm - 5:30 pm

- 149 New Approaches to Lumbar Disc Disease  
150R Moderator: David L. Kasdon  
Speakers: Joseph C. Maroon, Jack Willberger, Robert Hood,  
Joel N. Abramovitz and David L. Kasdon
- 151 The Poor Prognosis Patient: A Neurosurgeon's Dilemma  
152R Moderator: Stephen Haines  
Speakers: Peter Black, Donna Fraiche and Stephen Haines
- 153 Covering your Assets: How to Survive a Malpractice Judgment  
154R Moderator: Paul D. Croissant  
Speakers: Richard Kitch, William Hodgman and Lawrence Snider
- 155 Stereotaxic Tumor Diagnosis and Therapy  
156R Moderator: Michael Apuzzo  
Speakers: Philip Gutin, Patrick Kelly, Michael Apuzzo  
and Parakrama Chandrasona



# WEDNESDAY

September 17<sup>th</sup>

6:30 - 8:00 am International Breakfast (199)

## GENERAL SCIENTIFIC SESSION II SPINE

8:00 am - 12:45 pm

Presiding Officer: Fremont P. Wirth  
Moderators: Donald O. Quest and George J. Dohrmann, III

8:00 am - 10:00 am **New Imaging of Spine and Spinal Cord**

MRI vs CT vs Myelography: Which Test for Which Spinal Lesion?—Meredith Weinstein  
The Value of Ultrasound Imaging in Spine and Spinal Cord Lesions - Jonathan Rubin

### Spinal Fractures/Stability

What Constitutes Spinal Instability—Manohar Panjabi  
Stabilization Procedures for Thoracic and Lumbar Fractures—George Sybert

10:00 am - 10:45 am COFFEE BREAK

10:45 am - 12:15 pm **Ongoing Challenges/Disappointing Results**

Spondylosis and Syringomyelia—George Dohrmann  
Anterior Approaches to Lesions of the Upper Cervical Spine—Alan Crockard  
Spinal Cord AVMs—Edward Oldfield

### Intraoperative Electrical Monitoring: SEPs vs MEPs

Somatosensory Evoked Potentials—William Friedman  
Motor Evoked Potentials—Walter Levy

12:30 pm - 2:00 pm LUNCHEON DISCUSSIONS (201-220)

or

HOW I DO IT SESSIONS (221-240)

2:15 pm - 4:00 pm POSTER SESSION

2:15 pm - 4:00 pm Sectional Meetings  
Tumor Section Workshop on Cordomas

2:15 pm - 4:45 pm RESIDENTS PROGRAM—Neurosurgery and the Winds of Change: Practice Choices and Challenges Ahead  
Panel: Robert H. Lovic, CPA, Phillip A. Proger, Esq., and John P. Billingsley

5:30 pm - 6:30 pm HONORED GUEST RECEPTION (525)

# WEDNESDAY

September 17<sup>th</sup>

## LUNCHEON DISCUSSION GROUPS (201-220)

12:30 pm - 2:00 pm

- 201 DRGs: Impact on Management  
202R Moderator: Howard Kaufman  
Speaker: Richard De Saussure
- 203 Brain Protection in Athletes  
204R Moderator: Michael Apuzzo  
Speaker: Glen Kindt
- 205 Delayed Complications of Spinal Cord Injuries  
206R Moderator: Robert Edgar  
Speaker: Barth Green
- 207 Cerebral Blood Flow: Methods and Clinical Relevance  
208R Moderator: Hirohisa Ono  
Speaker: Howard Yonas
- 209 Use of Prosthetics and Vein Grafts in Cerebrovascular Disease  
210R Moderator: Richard Hodosh  
Speaker: Neal Martin
- 211 Giant Aneurysms and Cardiac Bypass  
212R Moderator: Hunt Batjer  
Speaker: Gerald Silverberg
- 213 Management of Brain Metastasis  
214R Moderator: Michael Carey  
Speaker: Michael Salcman
- 215 Diagnosis and Treatment of Germ Cell Tumors  
216R Moderator: Richard Marsh  
Speaker: Edward Neuwelt
- 217 Techniques and Indications for Spinal Fusion  
218R Moderator: Manohar Panjabi  
Speaker: Stewart Dunsker
- 219 Acrylic Fixation for Spine Stabilization  
220R Moderator: Richard Roski  
Speaker: Narayan Sundaresan

WEDNESDAY

POSTERS are located on the third floor, in the foyer. Daily viewing is available, and presentors will be at their posters on Wednesday afternoon.

# WEDNESDAY

September 17<sup>th</sup>

## HOW I DO IT SESSIONS (221-240)

12:30 pm - 2:00 pm

- 221 Extracranial Revascularization Procedures  
222R Moderator: Willis Brown  
Speaker: Thoralf Sundt
- 223 CT-Directed Biopsy of Brain Lesions  
224R Moderator: Patrick Kelly  
Speaker: Peter Heilbrun
- 225 Surgical Therapy of Spinal Stenosis  
226R Moderator: Philip Weinstein  
Speaker: Vallo Benjamin
- 227 Carotid Surgery for Ischemic Eye Disease  
228R Moderator: Robert Smith  
Speaker: Roger Countee
- 229 Embolic Therapy of Hemispheric and Dural AVMs  
230R Moderator: Parker Mickle  
Speaker: Duke Samson
- 231 Non-Invasive Evaluation of Cerebrovascular Disease  
232R Moderator: Robert Ojemann  
Speaker: John Little
- 233 Management of Tumors of the Third Ventricle  
234R Moderator: Bennett Stein  
Speaker: Albert Rhoton
- 235 Implantable Devices for Pain and Spasticity  
236R Moderator: David Kasdon  
Speaker: Richard Penn
- 237 Interstitial Brachytherapy for Brain Tumors  
238R Moderator: Peter Dyck  
Speaker: Philip Gutin
- 239 Systemic Methods of Improving Cerebral Perfusion  
240R Moderator: Michael Pritz  
Speaker: James Wood

The PRESERVATION HALL JAZZ BAND will be featured at the gala Annual Banquet on Wednesday evening, with the Reception beginning at 6:30 and Dinner at 7:30 p.m.

# THURSDAY

September 18<sup>th</sup>

## GENERAL SCIENTIFIC SESSION III TUMORS

8:00 am - 12:15 pm

Presiding Officer: Michael Salcman  
Moderators: Steven L. Giannotta and Michael L.J. Apuzzo

8:00 am - 10:00 am **Immunology**

Acquired Immune Deficiency Syndrome: Neurosurgical Implications—Mark Rosenblum  
Monoclonal Antibodies: Their Application in the Diagnosis and Management of CNS Tumors—Nicholas deTribolet

### **Interdisciplinary Aspects of Surgical Management of Intracranial Tumors**

Tumors of the Cerebello-Pontine Angle: Combined Management by the Neurological and Otolological Surgeons—Steven Giannotta  
The Spectrum of Exposures of Skull Base Tumors—Clarence Sasaki  
The Neurosurgeon's Role in Management of Orbital Tumors—Joseph C. Maroon

10:00 am - 10:45 am COFFEE BREAK

10:45 am - 12:15 pm **Technical Considerations in Tumor Surgery**

Surgical Approaches to "Inaccessible" Tumors— M. Gazi Yasargil  
Tumors of the Third Ventricle—Michael Apuzzo  
Tumors of the Fourth Ventricle—Harold Hoffman

12:30 pm - 2:00 pm LUNCHEON DISCUSSION GROUPS (301-320)

and

HOW I DO IT SESSIONS (321-338)

2:15 pm - 5:15 pm Open Scientific Sessions

Moderators: Richard Penn (Chairman), Michael Apuzzo, David Kasdon, J. Parker Mickle, and Mark Rosenblum

THURSDAY/FRIDAY

## LUNCHEON DISCUSSION GROUPS (301-320)

12:30 pm - 2:00 pm

- 301     Diagnosis and Management of Peripheral Nerve Syndromes  
302R    Moderator: Thomas Saul  
          Speaker: Alan Hudson
- 303     Neurologic Complications of the Sinuses  
304R    Moderator: Dennis Spencer  
          Speaker: Clarence Sasaki
- 305     New Directions in Head Injury Management  
306R    Moderator: Paul Cooper  
          Speaker: Donald Becker
- 307     New Ways to Prepare and Present a Neuroscience Lecture  
308R    Moderator: Robert Wilkins  
          Speaker: Leland Albright
- 309     Pre-operative Management of Subarachnoid Hemorrhage  
310R    Moderator: Warren Selman  
          Speaker: Neal Kassell
- 311     Chemotherapy of Gliomas  
312R    Moderator: Deborah Heros  
          Speaker: John Kapp
- 313     Management of CI-2 Injuries  
314R    Moderator: Michael McWhorter  
          Speaker: Volker Sonntag
- 315     Surgical Approaches to Clival Tumors  
316R    Moderator: Alan Crockard  
          Speaker: Leonard Malis
- 317     Running: Psychological, Physiological, and Pathological Aspects  
318R    Moderator: Fernando Diaz  
          Speaker: Charles Wilson
- 319     Management of Cervical Spondylosis  
320R    Moderator: Paul Nelson  
          Speaker: Julian Hoff

# THURSDAY

September 18<sup>th</sup>

## HOW I DO IT SESSIONS (321-338)

- 321 Use of Evoked Potentials in Intracranial Surgery  
322R Moderator: Robert Ojemann  
Speaker: William Friedman
- 323 Intracranial Procedures for Intractable Pain  
324R Moderator: Donald Richardson  
Speaker: Ronald Tasker
- 325 The Role of EC/IC Bypass  
326R Moderator: Eugene Flamm  
Speaker: James Ausman
- 327 Surgical Therapy of Posterior Fossa AVMs  
328R Moderator: Bennett Stein  
Speaker: Duke Samson
- 329 Peri-operative Management of Occlusive Cerebrovascular Disease  
330R Moderator: Glen Kindt  
Speaker: Donald Quest
- 331 Management of Recurrent Lumbar Pain  
332R Moderator: George Sypert  
Speaker: Hugh Rosomoff
- 333 Management of Pituitary Macroadenomas  
334R Moderator: Peter Black  
Speaker: Martin Weiss
- 335 Management of Syringomyelia  
336R Moderator: Michael Edwards  
Speaker: Albert Rhoton
- 337 Distal Basilar Aneurysms  
338R Moderator: Richard Hodosh  
Speaker: Arthur Day

# FRIDAY

September 19<sup>th</sup>

## GENERAL SCIENTIFIC SESSION IV TRAUMA

8:00 am - 12 noon

Presiding Officer: Hal Hankinson  
Moderators: Thomas G. Saul and Paul Cooper

8:00 am - 10:00 am Aggressive Management: Is it Worth It?—Larry Marshall  
Is ICP Monitoring Worthwhile?—Thomas Saul  
The Devastated Head Injury Patient—Howard Eisenberg  
Controversies in Medical Management—Guy Clifton  
Future Therapy of Head Injury—Donald Becker

10:00 am - 10:30 am COFFEE BREAK

10:30 am - 12:00 pm Emergency Medical Services in Trauma Care Planning—Lawrence Pitts  
Non-Operative Management of Cervical Spine Injuries—Volker Sonntag  
Indications and Strategies in the Operative Treatment of Cervical Spine  
Injuries—Paul Cooper  
Pharmacologic Treatment of the Injured Spinal Cord—Wise Young

ADJOURNMENT

## AUXILIARY & SOCIAL ACTIVITIES

### SUNDAY, SEPTEMBER 14

- 12:00 pm - 5:00 pm Hospitality Open
- 1:00 pm - 4:00 pm Round About New Orleans Tour
- 3:00 pm - 6:00 pm Wine and Cheese Party—Exhibits Area

### MONDAY, SEPTEMBER 15

- 7:00 am - 8:00 am Aerobics
- 8:00 am - 9:00 am Health Breakfast
- 8:00 am - 4:00 pm Hospitality Open
- 8:30 am - 9:30 am Resident's and New Member's Spouses Breakfast
- 10:00 am - 12:00 pm Cooking Demonstration from Paul Prudhomme's Kitchen
- 1:00 pm - 4:00 pm Garden District Tour
- 6:30 pm - 8:30 pm Opening Cocktail Party

### TUESDAY, SEPTEMBER 16

- 7:00 am - 8:00 am Aerobics
- 8:00 am - 9:00 am Health Breakfast
- 8:00 am - 4:00 pm Hospitality Open
- 9:00 am - 2:00 pm VIP Day at SAK'S
- 11:30 am - 2:00 pm Annual Business Luncheon—Fashion Show by SAK'S  
Hotel Westin-Canal Place
- 2:00 pm - 5:00 pm French Quarter Tour

### WEDNESDAY, SEPTEMBER 17

- 6:00 am - 7:30 am Fun Run
- 7:00 am - 8:00 am Aerobics
- 8:00 am - 9:00 am Health Breakfast
- 8:00 am - 4:00 pm Hospitality Open
- 8:30 am - 9:30 am Brian Scully, Ph.D. — Good Health Through Exercise
- 9:30 am - 10:30 am Allen Burshell, M.D. — Osteoporosis-Prevention and Treatment
- 10:30 am - 11:30 am Henry Stern—Antiques
- 1:30 pm - 4:30 pm New Orleans Museum of Art and Longue Vue Estate Tour
- 2:00 pm - 4:00 pm Hospitality Comb-out Service—John Jay
- 6:30 pm - 7:30 pm ANNUAL RECEPTION
- 7:30 pm - 12:00 am ANNUAL BANQUET



THURSDAY, SEPTEMBER 18

7:00 am - 8:00 am    Aerobics  
8:00 am - 9:00 am    Health Breakfast  
8:00 am - 4:00 pm    Hospitality Open  
9:00 am - 3:00 pm    River Road Plantation Tour

FRIDAY, SEPTEMBER 19

8:00 am - 11:00 am    Hospitality Open

REGISTRATION will open at 12:00 p.m., on Sunday, September 14, at the New Orleans Hilton, and will remain open until 6:00 p.m. that day. Persons registered for Sunday morning courses may pick up their ticket for that course after 8:00 a.m. on Sunday morning.

REFUND POLICY: A letter requesting cancellation of pre-registration must be received by the CNS Annual Meeting Office, 22 S. Washington Street, Park Ridge, IL 60068, by August 15, 1986, in order to receive a full refund. Cancellation requests received after August 15, and before September 10, will be refunded less a \$75.00 processing fee. No refunds will be made if received in the CNS Annual Meeting Office after September 10.

Course and event tickets will be refunded in full until September 10, 1986. Because of facility guarantees, there can be no refund for tickets after September 10. There will be no on-site return or exchange of tickets for courses.

Congress of Neurological Surgeons  
Annual Meeting Office  
22 S. Washington  
Park Ridge, IL 60068  
312/692-9500