

Joint Section on Disorders of the Spine and Peripheral Nerves of the AANS/CNS

12th ANNUAL MEETING

Jointly Sponsored by The American Association of Neurological Surgeons



Disney's Yacht and Beach Club Resorts
Lake Buena Vista, Florida



February 28–March 2, 1996

Disney's Yacht Club Resort welcomes you to the 1996 Joint Spine Section Annual Meeting. Reflecting crisp New England charm, the Yacht Club is located on Walt Disney World property and is connected to the EPCOT Center International Gateway by a short walk along a picturesque waterway. This beautiful resort is in close proximity to the incredible entertainment and dining opportunities of EPCOT Center and Disney MGM Studios Theme Park, and a short shuttle ride to the other Walt Disney World attractions, such as the Magic Kingdom, Disney Village Marketplace, and Pleasure Island.

Showcasing Disney's Yacht and Beach Club Resorts is "Stormalong Bay," an innovative and delightfully refreshing water oasis. This imaginatively themed fantasy lagoon incorporates bubbling jets of water, whirlpool, and two sensational "shipwreck" slides in a sprawling odyssey of adventure. For those who are looking for a more tranquil way to enjoy the afternoon, you may find yourself relaxing in one of the two formal quiet pools.

Disney's Yacht Club resort has convenient access to Disney's five championship golf courses. Lighted tennis courts, health club facilities, croquet, bocci ball, and volleyball courts are also available.

Five themed restaurants are located at Disney's Yacht and Beach Club resorts, featuring Yachtsman Steakhouse, serving aged beef along with fresh seafood and poultry, Ariel's, the signature restaurant featuring a variety of fresh seafood, and Beaches and Cream, a turn-of-the-century ice cream parlor.

We look forward to seeing you at the 1996 Joint Spine Section Annual Meeting, (jointly sponsored by the AANS) at Disney's Yacht Club Resort, where the Disney fun and southern hospitality await you!



MEETING LEARNING OBJECTIVES

After the Joint Spine Section Annual Meeting, (jointly sponsored by the AANS) participating neurological surgeons and orthopaedic spine surgeons should be more thoroughly aware of the natural history of spinal disease of a variety of types, including degenerative, traumatic, infectious, and neoplastic. The results of various surgical and nonsurgical therapeutic procedures will be reviewed so that the participants are more capable of selecting appropriate treatments. Lectures, hands-on courses, peer reviewed papers and posters will help participants gain a thorough understanding of current thinking on the natural history of spinal disease and the various diagnostic modalities and therapeutic procedures available. There will be emphasis on bone healing, malignancy, clinical controversies and new technology. Practical courses taught by recognized experts will allow participants to gain a basic understanding of the psychomotor skills used in various types of new spinal surgical approaches.

Following the scientific sessions, the participants will be able to critique the value of the recommended surgical and nonsurgical options presented in the scientific papers, and evaluate the relevance of the research methodologies, the findings, and the potential usefulness in practice of the topics presented for bone, cancer, and new technology.

SPECIAL COURSES

Advance or on-site registration is required for all Special Courses; admission will be by ticket only.

Wednesday, February 28, 1996

2:00 PM–5:00 PM

Entrapment Neuropathy

CME Credit = 3 hours

Co-Directors: John E. McGillicuddy, David Kline

The format of this course utilizes lectures and panel discussion with an open question and answer period.

After this course the participant will be able to:

1. Improve their ability to interpret diagnosis and treatment of entrapment neuropathies.
2. Explain the nuances in operative technique for relieving entrapments.

Wednesday, February 28, 1996

2:00 PM–5:00 PM

Anterior Thoracolumbar Instrumentation

CME Credit = 3 hours

Director: David Cahill

The format of this course utilizes lectures and hands-on demonstrations using sawbones.

After this course the participant will be able to:

1. Recognize indications for potential complications of rigid anterolateral thoracolumbar instrumentation.
2. Recognize strengths and weaknesses of various instruments used for the same purpose.
3. Recognize the potential serious complications of such surgery.

Friday, March 1, 1996

2:00 PM–5:00 PM

Spinal Biomechanics

CME Credit = 3 hours

Director: Edward C. Benzel

The format of this course utilizes lectures and discussion.

After this course the participant will be able to:

1. Describe the fundamentals of biomechanics and

kinematics for the cervical, thoracic, lumbar, and lumbopelvic regions.

2. Recognize the biomechanics of spinal instrumentation
3. Provide better advice in the decision-making process regarding both simple and complex spinal problems.

Friday, March 1, 1996

2:00 PM–5:00 PM

Cervical Stabilization

CME = 3 hours

Director: Curtis Dickman

The format of this course utilizes lectures, discussion, and hands-on demonstrations using sawbones.

After this course the participant will be able to:

1. Evaluate indications for surgery and various surgical techniques.
2. Assess the risks, benefits, and outcomes associated with cervical stabilization.

Saturday, March 2, 1996

2:00 PM–6:00 PM

Thoracoscopic Spinal Surgery

CME = 3 hours

Director: Noel I. Perin

The format of this course utilizes lecture and hands-on demonstrations using anatomical specimens. This course will be held off site in surgical suites.

After this course the participant will be able to:

1. Evaluate indications for thoracoscopic spinal surgery.
2. Describe the techniques associated with thoracoscopic spinal surgery.
3. Recognize the potential advantages and complications of thoracoscopic spinal surgery.

SPECIAL COURSES (continued)

Saturday, March 2, 1996

2:00 PM–5:00 PM

Lumbar Pedicle Screw Fixation

CME = 3 hours

Director: Regis W. Haid, Jr.

The format of this course utilizes lectures, discussion, and hands-on demonstrations using sawbones.

After this course the participant will be able to:

1. Evaluate indications for lumbar pedicle screw fixation.
2. Describe the techniques associated with lumbar pedicle screw fixation.
3. Assess the risks, benefits, and outcomes associated with lumbar pedicle screw fixation.

Saturday, March 2, 1996

2:00 PM–5:00 PM

Image Guided Stereotaxis

CME = 3 hours

Director: Iain H. Kalfas

The format of this course utilizes lecture presentation and hands-on demonstrations of frameless stereotactic surgery equipment with spinal phantom models.

After this course the participant will be able to:

1. Recognize the applications of frameless stereotaxy for spinal surgery.
2. Recognize the indications for stereotaxy in spinal surgery.
3. Recognize the relevant anatomical structures for image registration.

12TH ANNUAL MEETING PROGRAM SCHEDULE

WEDNESDAY, FEBRUARY 28, 1996

1:00 PM–6:30 PM

Registration

2:00 PM–5:00 PM

Special Course—Entrapment Neuropathy

Co-Directors: John E. McGillicuddy, David Kline

Special Course—Anterior Thoracolumbar Instrumentation

Director: David Cahill

6:30 PM–9:00 PM

Opening Reception

THURSDAY, FEBRUARY 29, 1996

6:30 AM–7:15 AM

Continental Breakfast - View Exhibits and Posters

6:30 AM–5:10 PM

Registration

6:30 AM–4:15 PM

Exhibits and Posters

7:15 AM–7:25 AM

Joint Section Chairman's Welcome

7:25 AM–7:30 AM

Scientific Program Chairman's Welcome

7:30 AM–10:00 AM

SYMPOSIUM I

Co-Moderators: Vincent C. Traynelis, Charles L. Branch, Jr.

BONE

7:30 AM–7:50 AM

Biology of Bone Healing

Perry A. Ball

7:50 AM–8:10 AM

Bone Trophic Factors and Proteins as an Adjunct to Bone Fusion

Scott D. Boden

8:10 AM–8:30 AM

Bone Substitutes

Regis W. Haid, Jr.

8:30 AM–8:40 AM

Panel Discussion

8:40 AM–9:00 AM

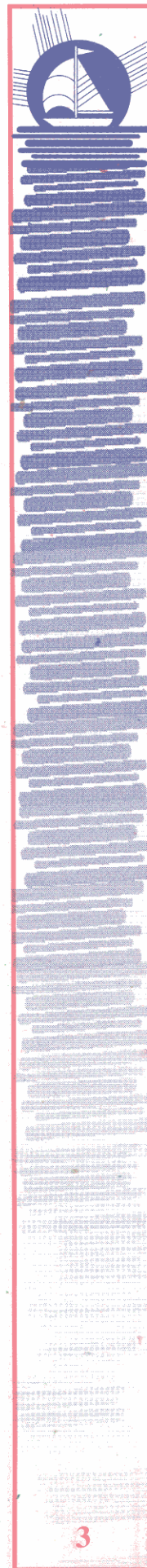
The Role of Electromagnetic Stimulation in Spinal Fusion

Hansen Yuan

9:00 AM–9:20 AM

Smoking, Bone Healing, and Spinal Fusion

Mark N. Hadley





THURSDAY, FEBRUARY 29, 1996 (continued)

9:20AM-9:40 AM	Autograft and Allograft Nevan G. Baldwin
9:40 AM-9:50 AM	Panel Discussion
9:50 AM-10:05 AM	Chairman's Address Arnold H. Menezes
10:05 AM-10:30 AM	Break - View Exhibits and Posters
10:30 AM-12:36 PM	CONTRIBUTED PAPERS Moderators: Stephen M. Papadopoulos, Brian G. Cuddy
12:40 PM-1:30 PM	LUNCH
1:30 PM-3:30 PM	SYMPOSIUM II Moderators: Gary Rea, Paul McCormick
	CLINICAL TOPICS IN MALIGNANCY
1:30 PM-1:50 PM	Metastatic Spinal Tumors - Nonoperative Management Thomas N. Byrne
1:50 PM-2:10 PM	Metastatic Spinal Tumors - Surgical Decision Making David W. Cahill
2:10 PM-2:20 PM	Panel Discussion
2:20 PM-2:40 PM	Irradiation Brachial Plexis and Malignant Brachial Plexopathy: Evaluation and Management David G. Kline
2:40 PM-3:00 PM	Primary Spinal Tumors Richard G. Fessler
3:00 PM-3:20 PM	Sacral Tumors Ziya L. Gokaslan
3:20 PM-3:30 PM	Panel Discussion
3:30 PM-3:45 PM	Break - View Exhibits and Posters
3:45 PM-5:10 PM	CONTRIBUTED PAPERS Moderators: Allan H. Friedman, Robert B. Snow

FRIDAY, MARCH 1, 1996

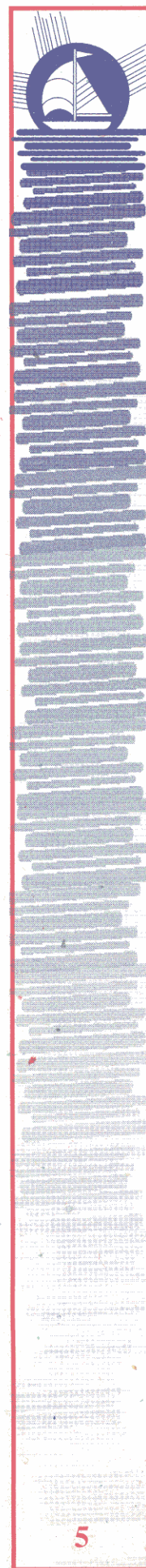
6:30 AM-7:30 AM	Continental Breakfast - View Exhibits and Posters
6:30 AM-1:30 PM	Exhibits and Posters
6:30 AM-2:00 PM	Registration
7:30 AM-10:00 AM	SYMPOSIUM III Moderators: Richard Saunders, Randall Chesnut
	CONTROVERSIES
7:30 AM-7:35 AM	Unilateral Cervical Facet Dislocation: Case Presentation
7:35 AM-7:45 AM	Aggressive Reduction Richard A. Balderston
7:45 AM-7:55 AM	Nonaggressive Reduction Dennis J. Maiman
7:55 AM-8:05 AM	Discussion
8:05 AM-8:10 AM	Thoracic Outlet Syndrome: Case Presentation
8:10 AM-8:20 AM	Thoracic Outlet Syndrome: Operative Management James N. Campbell

FRIDAY, MARCH 1, 1996 (continued)

8:20 AM-8:30 AM	Thoracic Outlet Syndrome: Nonoperative Management Russell W. Hardy, Jr.
8:30 AM-8:40 AM	Discussion
8:40 AM-8:45 AM	Thoracic Disc Herniation: Case Presentation
8:45 AM-8:55 AM	Thoracic Disc Herniation: Posterolateral Approach H. Louis Harkey III
8:55 AM-9:05 AM	Thoracic Disc Herniation: Transthoracic Approach Russell W. Hardy, Jr.
9:05 AM-9:15 AM	Thoracic Disc Herniation: Thoracoscopic Approach Curtis A. Dickman
9:15 AM-9:25 AM	Discussion
9:25 AM-9:30 AM	Thoracic Burst Fracture: Case Presentation
9:30 AM-9:40 AM	Thoracic Burst Fracture: Operative Management David W. Cahill
9:40 AM-9:50 AM	Thoracic Burst Fracture: Nonoperative Management Patrick W. Hitchon
9:50 AM-10:00 AM	Discussion
10:00 AM-10:30 AM	Break - View Exhibits and Posters
10:30 AM-12:00 NOON	CONTRIBUTED PAPERS Moderators: Richard H. Tippetts, Nancy Epstein
12:00 NOON-12:10 PM	Joint Section Spine Fellowship Award Presentation Dennis G. Vollmer
12:10 PM-12:20 PM	Mayfield Award Presentation Dennis G. Vollmer
12:20 PM-12:35 PM	Basic Mayfield Award Talk
12:35 PM-12:50 PM	Clinical Mayfield Award Talk
12:50 PM-1:00 PM	Discussion: Mayfield Presentations
1:00 PM-1:30 PM	Annual Business Meeting
2:00 PM-5:00 PM	Special Course—Spinal Biomechanics Director: Edward C. Benzel
2:00 PM-5:00 PM	Special Course—Cervical Stabilization Director: Curtis A. Dickman
6:30 PM-11:00 PM	Annual Reception and Banquet

SATURDAY, MARCH 2, 1996

6:30 AM-7:30 AM	Continental Breakfast - View Exhibits and Posters
6:30 AM-11:00 AM	Exhibits and Posters
6:30 AM-2:00 PM	Registration
7:30 AM-10:00 AM	SYMPOSIUM IV Moderators: Volker K.H. Sonntag, Gerald Rodts NEW FRONTIERS IN SPINAL SURGERY
7:30 AM-7:45 AM	Practice Guidelines Richard M. Toselli
7:45 AM-8:00 AM	Outcome Research in Spinal Surgery James N. Weinstein





SATURDAY, MARCH 2, 1996 (continued)

8:00 AM-8:15 AM	Cost Analysis for Lumbar Fixation Thomas A. Zdeblick
8:15 AM-8:30 AM	Panel Discussion
8:30 AM-8:45 AM	Thoracoscopic Approaches Dan Rosenthal
8:45 AM-9:00 AM	Foraminoscopic Approaches Maurice Smith
9:00 AM-9:10 AM	Panel Discussion
9:10 AM-9:25 AM	Artificial Disc Replacement Thierry Marnay
9:25 AM-9:40 AM	Spinal Stereotaxis Kevin T. Foley
9:40 AM-9:55 AM	Lumbar Interbody Fusion Devices Robert A. McGuire
9:55 AM-10:10 AM	Panel Discussion
10:10 AM-10:45 AM	Break - View Exhibits and Posters
10:45 AM-1:00 PM	CONTRIBUTED PAPERS Moderators: James P. Hollowell, Richard K. Osenbach
2:00 PM-5:00 PM	Special Course—Image Guided Stereotaxis Director: Iain H. Kalfas
2:00 PM-5:00 PM	Special Course—Lumbar Pedicle Screw Fixation Director: Regis W. Haid, Jr.
2:00 PM-6:00 PM	Special Course—Thoracoscopic Spinal Surgery Director: Noel I. Perin

TOURS/SPOUSE PROGRAM

The Joint Spine Section is pleased to offer all registered spouses use of the Spouse Hospitality Suite, which will be located in Yachtsman Steakhouse at the Yachtclub Resort. A continental breakfast will be served daily (Thursday through Saturday) beginning at 8:00 am. All registered spouses are invited to enjoy the suite to visit with friends, plan the activities for the day, or to simply relax.

INNOVATION IN ACTION - Behind the Scenes of Walt Disney World Resort

Friday, March 1, 2:00 PM-5:30 PM

See the Walt Disney Resort like you've never seen it before! "Innovation in Action" is a behind-the-scenes adventure that will take you to places most guests never get to see for an incredible and entertaining experience you won't soon forget. You will see highlights of Walt Disney's many accomplishments and will go on an unforgettable journey where you will see firsthand how they make "magic"!

Just a few of the locations you will visit include The Production Center, where you can take an up-close look at the backstage elements of Disney parades and stage shows, and The "Utilidor" System where you can journey beneath the MAGIC KINGDOM park to visit the support systems located in the "tunnel".

This tour is limited to adults 16 years of age and older ONLY. The program involves walking in some locations. Theme park admission is not included or required.

DISNEY TICKETS

The Joint Spine Section is pleased to offer attendees of the 12th Annual Meeting special rates on meeting/convention ticket packages for entrance to the Walt Disney World theme parks. Please note that all tickets are valid from February 23 to March 7, 1996, and need not be used on consecutive days.

DISNEY TICKETS (continued)

Please refer to the WALT DISNEY WORLD TICKETS ORDER FORM included in this Program for ticket packages, prices and order information.

Please note that all Disney Tickets orders should be mailed to:

Convention Planning Services, Inc.
5422 Carrier Drive, Suite 203
Orlando, FL 32819

DO NOT SUBMIT YOUR DISNEY TICKET ORDER FORM TO THE SAME ADDRESS THAT YOU SUBMIT YOUR REGISTRATION FORM OR HOUSING FORM!

Additional Disney Tickets will be available for purchase on-site at the Spine Section registration desk during open registration hours.

SOCIAL ACTIVITIES

Disney's Yacht and Beach Club Resort Hotels have many recreational facilities available for meeting attendees, including two lighted tennis courts, a health club with massage therapy available daily, croquet court, bocci ball court, and volleyball court, in addition to Stormalong Bay. The following social activities have been organized as official activities of the Joint Spine Section Annual Meeting.

OPENING RECEPTION

Wednesday, February 28, 6:30 PM-9:00 PM

Enjoy the warm Florida climate and a wonderful assortment of foods as you visit with old friends and new colleagues at the Joint Spine Section Opening Reception. This Disney themed party will be held on the outdoor Boardwalk at the Yachtclub Resort. All registered attendees will receive one complimentary ticket to the Opening Reception. Casual attire is recommended.

GOLF TOURNAMENT

Friday, March 1, 2:00 PM

Spend the afternoon on the golf course with fellow Spine Meeting attendees during the 1996 Joint Spine Section Golf Tournament. The tournament will be held on one of Disney's five championship golf courses and the winner will be announced at the Annual Reception and Banquet. Advance registration is required for participation in the Golf Tournament. Please check the appropriate blank on the Registration Form.

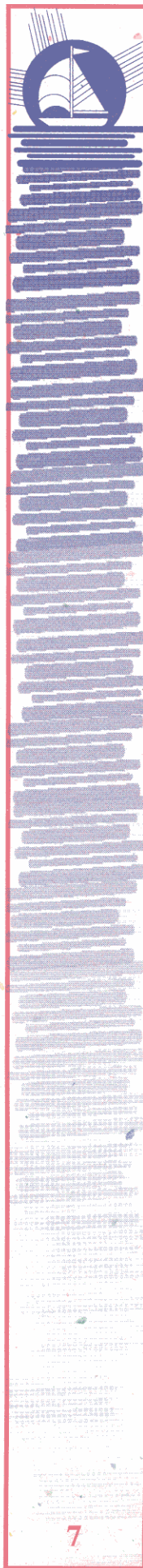
ANNUAL RECEPTION AND BANQUET

Friday, March 1, 6:30 PM-11:00 PM

You won't want to miss the final evening of the 1996 Meeting at the Annual Reception and Banquet. You will enjoy an enchanted evening of food, friends, music, and dancing. Admittance to the Banquet is by ticket only. One complimentary Banquet ticket will be issued to each registrant. If you plan to attend, please be sure to check this option on the Registration Form.

HOTEL RESERVATIONS

Enclosed is a hotel reservation form and envelope for Disney's Yacht and Beach Club Resorts. Please complete and return this form to the indicated address no later than January 26, 1996. RESERVATIONS RECEIVED AFTER THIS DATE WILL BE ACCEPTED ON A SPACE AVAILABLE BASIS ONLY!



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HOTEL RESERVATIONS (continued)

All hotel reservations must be accompanied by a deposit in the amount of \$209.79. Please follow the instructions on the enclosed form carefully.

For further information, please contact Disney Group Reservations directly: 407-934-3665

AIRLINE INFORMATION

The Joint Section on Disorders of the Spine and Peripheral Nerves is pleased to announce that United Airlines and Delta Airlines have been designated as the official airlines of the 12th Annual Meeting.

Each airline is pleased to offer a 5% discount off any published domestic fare, providing all the rules and conditions of the airline are met.

Both United and Delta provide service to most major cities worldwide, and have achieved records of passenger satisfaction unequalled in the industry. To make your reservation, call 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 Joint Spine Section Annual Meeting. Don't forget to identify yourself as a Spine Section participant and provide the special meeting file number indicated below.

For reservations call:
United Airlines
1-800-521-4041
7:00 AM to 10:00 PM Eastern time,
7 days a week
Meeting File Number: 557YX

For reservations call:
Delta Airlines
1-800-241-6760
8:00 AM to 11:00 PM Eastern time,
7 days a week
Meeting File Number: R0776

These discounts are available only through United Airlines and Delta Airlines toll free number, so call today!

CANCELLATION POLICY

Due to facility guarantees there will be no refunds for cancellations received after February 19, 1996. Cancellation requests must be submitted in writing to the Joint Section on Disorders of the Spine and Peripheral Nerves, Attention Pam Miczuga, 22 South Washington Street, Park Ridge, Illinois 60068-4287, Fax: 708-692-4225.

CONTINUING MEDICAL EDUCATION CREDIT

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

The American Association of Neurological Surgeons designates this continuing education for 24.5 credit hours in Category 1 of the Physicians Recognition Award of the American Medical Association. An additional 9 credit hours are available for attendance at the Special Courses.

AANS/CNS Joint Section on Disorders of the Spine and Peripheral Nerves

22 South Washington Street
Park Ridge, Illinois 60068-4287
(708) 692-9500
(708) 692-2589 Fax

NOTE: On January 20, 1996, the area code for The American Association of Neurological Surgeons' National Office will change from (708) to (847).