

# 18th

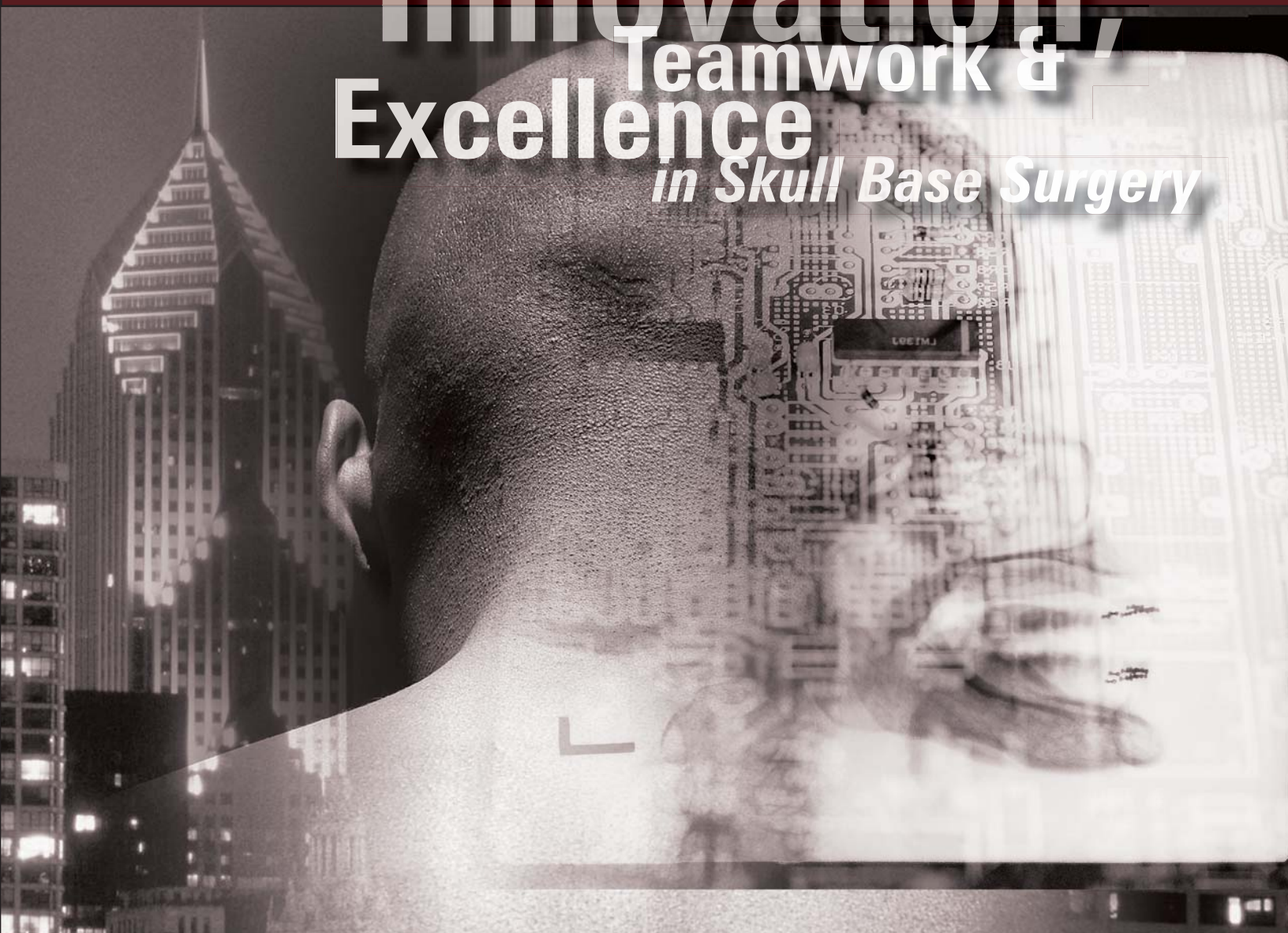
## 18<sup>th</sup>



Annual Meeting of the  
**North American Skull Base Society**

*Final Program*

# Innovation, Teamwork & Excellence *in Skull Base Surgery*



**MAY 24 – 27, 2007**

**THE WESTIN ON MICHIGAN AVENUE • CHICAGO, ILLINOIS**

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# OFFICERS AND COMMITTEES

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**Anil Nanda, MD**  
Immediate Past President



**Franco DeMonte, MD**  
President-Elect and Secretary

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#### Immediate Past President

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Jon H. Robertson, MD (2003-2008)  
Jatin P. Shah, MD (2004-2009)

#### NASBS Headquarters

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Fax: 703-435-4390  
Email: info@nasbs.org

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Email: Lsherline@drohanmgmt.com

### Past Presidents

1990 Paul J. Donald, MD  
1991 Laligam N. Sekhar, MD  
1992 Ivo P. Janecka, MD  
1993 Peter G. Smith, MD, PhD  
1994 Albert L. Rhoton Jr., MD  
1995 Hugh D. Curtin, MD

1996 Derald E. Brackmann, MD  
1997 Ossama Al-Mefty, MD  
1998 Steven A. Newman, MD  
1999 John P. Leonetti, MD  
2000 Robert F. Spetzler, MD  
2001 Ian T. Jackson, MD

2002 Vinod K. Anand, MD  
2003 Jon H. Robertson, MD  
2004 Jatin Shah, MD  
2005 Patrick J. Gullane  
2006 Anil Nanda



# OFFICERS AND COMMITTEES



## North American Skull Base Society

*2006 - 2007 Committee List*



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Co-Chair



**Vikram Prabhu, MD**  
Co-Chair

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Chairman: ??

### **CME Committee**

Chairman: Steven Newman, MD

Co-Chairman: Ashok Shaha, MD

### **History & Archives Committee**

Chairman: Jatin Shah, MD

### **Journal Committee ????**

Chairman: Patrick Gullane, MD

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Chairman: Franco DeMonte, MD

### **Nominating Committee**

Chairman: Anil Nanda, MD

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Chairman: Ehab Hanna, MD

Co-Chairman: Sandeep Samant, MD

### **Program Committee**

#### **Scientific Committee**

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Vikram Prabhu, MD Co-Chairman

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James Chandler, MD

James Evans, MD

Ehab Hanna, MD

Dennis Kraus, MD

Michael Link, MD

Peter Neligan, MD

Snehal Patel, MD, MS

Gail Rosseau, MD

Charles Rosen, MD, PhD

### **2008 World Congress Meeting Committee**

Laligam Sekhar, MD

Franco DeMonte, MD

Daniel Nuss, MD

Saleem Abdulrauf, MD

# HONORED GUESTS

Each year, the North American Skull Base Society honors one or several individuals who have made major contributions to one of the disciplines dealing with the management of patients with diseases of the skull base. This year, President Guy Petruzzelli has chosen to honor Dr. Bahman Emami and Dr. Victor Schramm, Jr.

## 18th Annual Meeting Honored Guests

### Victor L. Schramm, Jr.

Victor L. Schramm, Jr. grew up in western Minnesota. At an early age he developed carpentry, water skiing and fishing skills, but was attracted more by science. Undergraduate education at the University of Iowa evolved from physics to chemistry to medicine. While attending the University of Iowa School Of Medicine, Otolaryngology emerged as the specialty of choice. Good fortunes lead to residency training at Washington University and Barnes Hospital in St. Louis. There Dr. Schramm was introduced to the need for innovation for surgery. His first two skull base tumor resections were completed there in 1973 despite the refusal of Neurosurgical participation.



Beginning in Philadelphia in the United States Navy and continuing at the University of Pittsburgh interests in teaching and patient care expanded from Head and Neck surgery to skull base surgery. The research aspects of academic practice were met with cooperation of Plastic and Neurosurgeons in the operating room where skull base surgery was taken from experimental to innovative to standard of care. An evolving passion for running and down hill skiing filled non professional hours.

Denver was chosen as a central location for the developing skull base surgery endeavor, also providing proximity to skiing. The eager cooperation of many talented medical and surgical specialists lead to a very active private practice based skull base surgery team. Here, Dr. Schramm also added hiking, horse back riding, ranching and horse packing with wilderness camping to fill non ski season free time.

With multidisciplinary cooperation, Dr. Schramm developed early low frontal anterior fossa resection and galeal pericranial reconstruction, followed by preauricular infratemporal nasopharyngeal resection, total carotid decompression and transposition, total temporal bone reconstruction and free flap skull base reconstruction. Despite this experience he understands there must be a better way and continues with colleagues to strive for improvements in patient outcome.

# HONORED GUESTS

## Dr. Bahman Emami

Dr. Bahman Emami completed his Residency in Therapeutic Radiology at Tufts University School of Medicine, Boston, MA, in 1976. Bahman stayed on their Faculty until 1980, when he joined the Radiation Oncology Center at Washington University in St. Louis. He remained on our Faculty until 1996. Besides his clinical and research responsibilities he occupied many administrative positions, including Director of the Hyperthermia Center, Clinical Chief (1987-90) and Associate Director (1990-96). At that time he went to become Chairman of the Department of Radiation Oncology at Loyola University School of Medicine and Medical Center, position he occupies at the present time.



Dr. Emami has been a leader in the Radiation Therapy Oncology Group (RTOG), in which he was Chairman of the Hyperthermia Committee and Vice-Chairman of the Lung Committee. He was Chairman of several Group Protocol studies in Hyperthermia, head and neck and lung cancer.

He has greatly contributed to the advancement of Radiation Oncology as a clinical discipline and to the development of innovative approaches to three-dimensional treatment planning and delivery of radiation therapy. He has made substantial contributions to the management of patients with head and neck and lung cancer. Scientifically he led the Department and RTOG in innovative research on clinical applications of hyperthermia and in combined modality therapy of patients with cancer. He participated in the organization of several educational programs related to 3D treatment planning in radiation therapy.

Dr. Emami is highly regarded by his peers in Radiation Oncology. He is member of numerous professional Societies and he has been recognized for his many valuable contributions to our discipline and to the management of patients with cancer. He was awarded a Fellowship in the American College of Radiology in 1989.

Dr. Emami has been strongly committed to the training of the radiation oncology residents and has been a most enlightening mentor of young radiation oncologists. In 2004-05 he was bestowed the Teacher of the Year Award by the Association of Residents in Radiation Oncology. Further, he has participated in numerous educational programs in ASTRO, ACR and the RSNA.

Dr. Emami has been a most prolific writer with over 270 proffered journal papers, 50 chapters and invited articles published. He is an Associate Editor of the International Journal of Radiation Oncology, Biology and Physics of the Endocurietherapy / Hyperthermia Oncology.

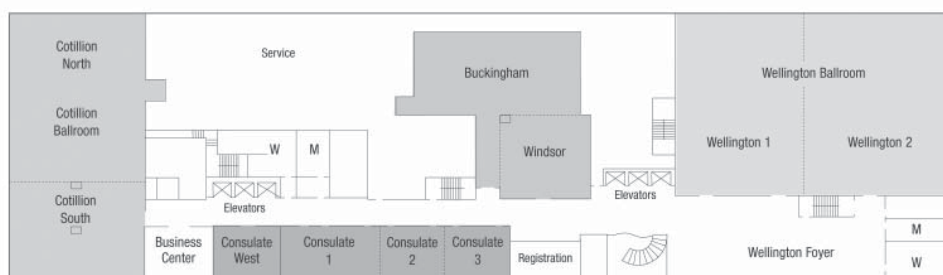
Dr. Emami has been a member of many national and international task forces and committees in Radiation Oncology that have formulated important recommendations to set standards to improve the practice of radiation therapy. He was responsible for organizing several Symposia on Hyperthermia and 3D treatment planning in Radiation Therapy that resulted on several important publications.

### Past Honored Guests

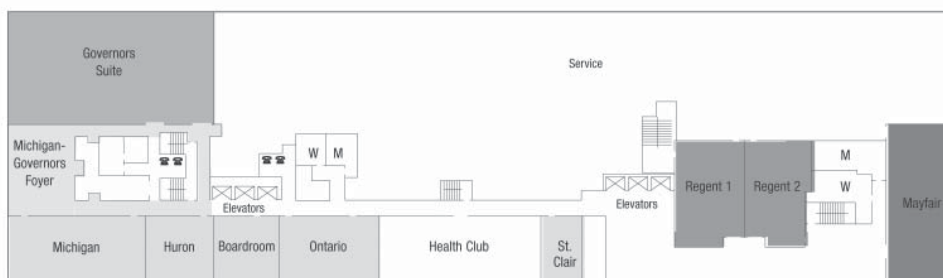
1990	Edwin W. Cocke Jr., MD	2000	Derald Brackmann, MD
1991	Leonard I. Malis, MD		Peter J. Jannetta, MD
1992	Madjid Samii, MD	2001	T.A.H. (Rab) Hide, FRCS
1993	Michael E. Glasscock III, MD	2002	Wolfgang Draf, MD
1994	Johannes Lang, MD		Albert L. Rhoton Jr., MD
	Robert G. Ojemann, MD	2003	Paul J. Donald, MD
	Kurt F. Schurmann, MD	2004	Alfred S. Ketchum, MD
1995	Peter M. Som, MD		John S. Lewis, MD
1996	William E. Hitselberger, MD	2005	Anthony D. Cheeseman, MD
	William F. House, MD		Alan Hudson, OC
1997	Ugo Fisch, MD		Joram Raveh, MD, DMD
1998	Kil Soo Choi, MD	2006	Robert Jackler, MD
	Dwight Parkinson, MD		Robert Spetzler, MD
	Naoaki Yanagihara, MD		

# GENERAL INFORMATION

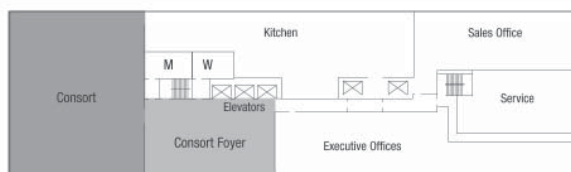
Second Floor



Third Floor



Sixteenth Floor



## MEETING LOCATION

All scientific sessions for the Annual Meeting of the North American Skull Base Society (NASBS) will be held at the Westin Michigan Avenue, Chicago, Illinois.

## PRACTICAL COURSE LOCATION

The practical course on Thursday, May 24th, will be held at:

Rush University Medical Center  
600 South Paulina  
Suite AF506-Anatomy Lab  
Chicago, IL 60612

## REGISTRATION

On-site registration for the meeting will be held at the Westin Michigan Avenue at the following times:

Thursday, May 24	2:30 p.m. – 6:00 p.m.
Friday, May 25	7:00 a.m. – 5:30 p.m.
Saturday, May 26	7:00 a.m. – 5:30 p.m.
Sunday, May 27	7:00 a.m. – 1:00 p.m.

## GUEST REGISTRATION

Spouses or guests of registrants, who do not attend the scientific sessions, may register as a guest. The guest registration fee includes the President's Reception, Wine & Cheese Reception, and the Annual Banquet.

## EXHIBIT HOURS

Friday, May 25	6:00 p.m. – 8:00 p.m.
Saturday, May 26	7:00 a.m. – 3:30 p.m.
Sunday, May 27	7:00 a.m. – 12:00 noon

## SPEAKER READY ROOM

A Speaker Ready Room, located in Consulate West, will be available for all presenters to use. You are urged to visit the Speaker Ready Room to reconfirm your audio/visual needs and review your presentation. An audio/visual technician will be available to assist you. Hours of operation:

Friday, May 25	7:30 a.m. – 5:30 p.m.
Saturday, May 26	7:00 a.m. – 5:30 p.m.
Sunday, May 27	7:00 a.m. – 1:00 p.m.

# GENERAL INFORMATION

## Disclosure of Commercial Relationships

As a sponsor accredited by the Accreditation Council for Continuing Medical Education, the Society and the Continuing Medical Education Committee of the North American Skull Base Society must ensure balance, independence, objectivity, and scientific rigor in all its individually sponsored or jointly sponsored educational activities. All speakers and faculty participating in a sponsored activity are expected to disclose to the activity audience any significant financial interest or other relationship (1) with the manufacturer(s) of any commercial product(s) and/or provider(s) of commercial services discussed in an educational presentation and (2) with any commercial supporters of the activity (significant financial interest or other relationship can include such things as grants or research support, employee, consultant, major stock holder, member of speakers bureau, etc.) The intent of this disclosure is not to prevent a speaker with a significant financial or other relationship from making a presentation, but rather to provide listeners with information on which they can make their own judgments. It remains for the audience to determine whether the speaker's interests or relationships may influence the presentation with regard to exposition or conclusion. Presenters are also expected to disclose if their presentation includes discussion of any pharmaceutical products or medical devices that are considered investigational (not FDA approved use; "off label").

## MEMBERSHIP IN THE NORTH AMERICAN SKULL BASE SOCIETY

The fee for membership in the North American Skull Base Society is \$275.00 per year. Membership in the society includes a discounted fee to the annual meeting, practical courses, the society newsletter, and the journal *Skull Base: An Interdisciplinary Approach*. For information on joining NASBS, please call the society's headquarters at 703-437-4377 or visit the website at [www.nasbs.org](http://www.nasbs.org). See page 37 for a membership application.

## SUPPORT TO THE SOCIETY

We gratefully acknowledge the following companies for providing financial support for the Annual Meeting:

### Gold Sponsorship

Stryker

### Silver Sponsorship

Karl Storz Endoscopy - America, Inc.  
KLS-Martin, LP

### Sponsorship

Porex Surgical, Inc.  
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Synergetics, Inc.  
Synthes CMF  
Thieme Publishers  
Xoran Technologies

## Society ties

The NASBS Society necktie is available for purchase at the meeting registration desk. The cost per tie is \$35.00.



# GENERAL INFORMATION

## Annual Meeting Educational Objectives

Through participation in this Annual Meeting, members of the North American Skull Base Society and other attendees will have the opportunity to:

- Recount the history of skull base surgery and its origins;
- Discuss the education of our residents and fellows in skull base surgery;
- Recognize the potential complications of skull base surgery with particular emphasis on identifying pre-operative risk factors and intra-operative warning signs;
- Describe the importance of short-term care and recognize the potential and limitations in long-term rehabilitation for patients with skull base lesions;
- Explore the trends and directions of the future that will change the face of skull base surgery.
- Discuss the evolving role of minimally invasive and endoscopic skull base surgery; identify the potential of new technologies in neuro-navigation and stereotaxis;
- Discuss the developing alternative treatment modalities, such as stereotactic radio surgery that can be utilized for management of tumors of the skull base;
- Review the status of medical alternatives to traditional surgery, such as medical and hormonal therapy and gene manipulation.
- Recognize the potential complications of skull base surgery with particular emphasis on identifying pre-operative risk factors and intra-operative warning signs;
- Describe the importance of short-term care and recognize the potential and limitations in long-term rehabilitation for patients with skull base lesions;
- Discuss the recent advances in skull base pathology and surgery.

## CME ACCREDITATION

The North American Skull Base Society is accredited by the Accreditation Council for Continuing Medical Education to sponsor continuing medical education for physicians. The NASBS designates Category 1 credit towards the AMA Physician's Recognition Award for the Annual Meeting for up to 30 hours and up to 8 hours for the one-day practical course. Each physician should claim only those hours of credit that he/she actually spent in the educational activity.

## BADGES

Badges should be worn at all times during scheduled meeting activities. Your badge is your admission pass for all meeting sessions, social events, and exhibit hall.

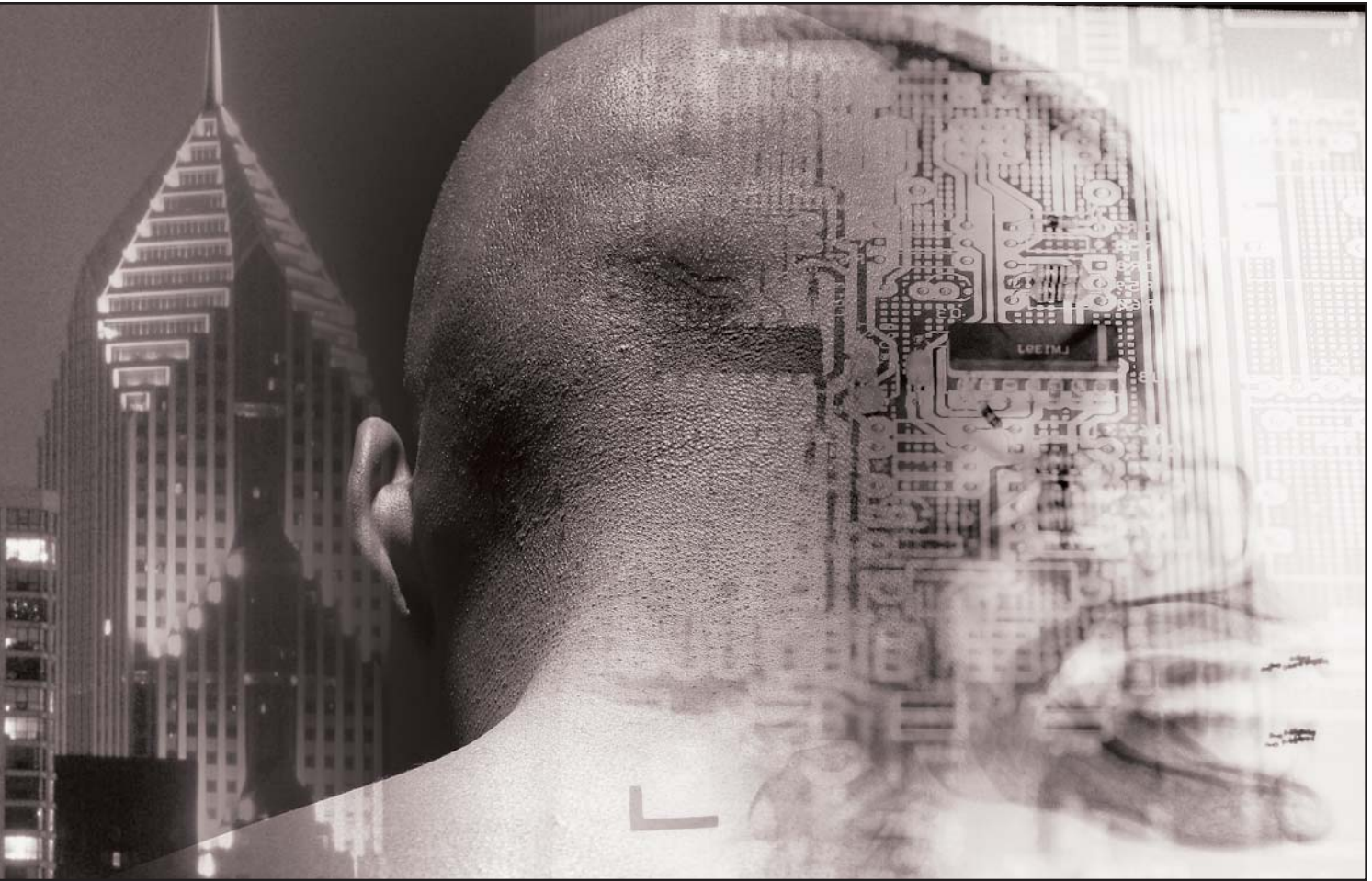
## MEETING LANGUAGE

The language used at the meeting will be English.

## SMOKING

Smoking is not permitted in any room or area in which a meeting is sponsored or an organized activity is held. This prohibition includes the registration area, the exhibit hall, and rooms in which meetings and social events are held.

# PRACTICAL COURSES



## **Practical Course – May 24, 2007**

The pre-meeting practical course will be held at:

**Rush University Medical Center  
600 South Paulina  
Suite AF506-Anatomy Lab  
Chicago, IL 60612**

## *Practical Course Organizers*

Siviero Agazzi, MD  
Mario Ammirati, MD  
Vijay Anand, MD  
Robert Beck, PhD  
Richard Byrne, MD  
Sam Marzo, MD  
Alan Micco, MD  
Guy Petruzzelli, MD, PhD  
Vikram Prabhu, MD  
Theodore Schwartz, MD  
Harry van Loveren, MD  
James Williams, PhD

# N A S B S P R A C T I C A L C O U R S E

## Session I – Endoscopy and Anterior Cranial Fossa

7:30 a.m. – 12:30 p.m.

**7:30 – 8:30 a.m. Anatomy of the Anterior Cranial Fossa and Paranasal Sinuses**

*Albert Rhoton, Jr.*

**8:30 – 8:45 a.m. Transnasal Corridors to the Skull Base**

*Vijay K. Anand*

**8:45 – 9:00 a.m. Endoscopic Skull Base Approaches**

*Theodore H. Schwartz*

**9:00 – 9:45 a.m. Anatomy Lab Prosection**

**9:45 a.m. – 12:30 p.m. Hands-On Cadaver Dissections**

*Prosectors – Vijay Anand, Theodore Schwartz, and Guy Petruzzelli*

*Instructors – Clint Baird, Seth Brown, William Benedict, Mark Bilsky, Aadil Chagla, James Evans, Stacey Gray, John Jane, Jr., Amin Kassam, Sepher Sani, Joseph Scianna, Carl Snyderman, Aldo Stamm, Abtin Taebee, and Charles Teo*

**12:30 a.m. – 1:00 p.m. Working Lunch for Participants**

*Surgical Approaches to the Cavernous Sinus*

*Harry van Loveren*

## Session II – Middle and Posterior Cranial Fossa

1:00 p.m. – 5:30 p.m.

**1:00 – 1:15 p.m. Anatomy: The Posterior Cranial Fossa and Posterior Petrous Bone**

*John Shea*

**1:15 – 1:30 p.m. Surgical Strategies: Posterior Petrosectomy Approach to Petroclival Tumors**

*Jacques Morcos*

**1:30 – 1:35 p.m. Practical Exercise Explanation: Expanded Posterior Petrosectomy**

*Siviero Agazzi*

**1:35 – 3:05 p.m. Dissection: Expanded Posterior Petrosectomy**

*Prosectors: Siviero Agazzi, Mario Ammirati, Alan Micco*

*Instructors: Saleem Abdul-Rauf, Ossama Al-Mefty, Edward Duckworth, James Evans, Douglas Long, Edward Duckworth, Ali Krisht, Stephen Lewis, Sam Marzo, Jacques Morcos, Sam Selesnick, Mitesh Shah, and John Treves*

**3:05 – 3:15 p.m. Pearls and Pitfalls: Translabyrinthine Approach to Vestibular Schwannomas**

*Alan Micco*

**3:15 – 3:30 p.m. Anatomy: The Middle Cranial Fossa and Anterior Petrous Bone**

*Stephen Lewis*

**3:30 – 3:45 p.m. Surgical Strategies: Anterior Petrosal Approaches (Kawase) to Petrous Apex and Upper Clival Lesions**

*Mario Ammirati*

**3:45 – 3:55 p.m. Pearls and Pitfalls: Middle Fossa Approach to Vestibular Schwannomas**

*Sam Marzo*

**3:55 – 4:00 p.m. Practical Exercise Explanation: Anterior Petrosectomy**

*Siviero Agazzi*

**4:00 – 5:00 p.m. Dissection: Anterior Petrosectomy**

*Prosectors: Siviero Agazzi, Mario Ammirati, Alan Micco*

*Instructors: John Golfinos, Matthew Hanson, Michael Link, James Liu, Sam Marzo, Michael Moore, Sunil Patel, Sujit Prabhu, Sandeep Samant, Jack Shohet, Joseph Zabramski*

# NASBS SCIENTIFIC PROGRAM

## Thursday, May 24, 2007

**2:30 – 6:00 p.m. Registration Open**  
(2nd Floor Registration Desk)

**6:00 – 8:00 p.m. Presidents Welcome Reception**  
(Cotillion Ballroom)

## Friday, May 25, 2007

**7:00 – 5:30 p.m. Registration Open**  
(2nd Floor Registration Desk)

**7:00 – 8:00 a.m. Breakfast Seminar Sessions**

(Buckingham Room) **Breakfast Seminar#1 Comprehensive Management of Pituitary Tumors**  
*Gail Rousseau (Moderator), Michael Molitch, Ajay Niranjana, Kalmon Post*

(Consulate Rooms) **Breakfast Seminar #2 Comprehensive Management of Vestibular Schwannomas**  
*Joung Lee (Moderator), Fred Barker, Michael Holliday, Michael Link, Peter Weber*

(Mayfair Room) **Breakfast Seminar #3 Comprehensive Management of Petroclival Meningiomas**  
*Johnny Delashaw (Moderator), Ossama Al-Mefty, Michael McDermott, Laligam Sekhar*

## Plenary Session #1

*Moderators: Franco DeMonte and Dennis Kraus*

**8:00 – 9:00 a.m. Interactive Tumor Board: Managing Skull Base Malignancy**  
(Cotillion Ballroom) *Dennis Kraus (Moderator), Annie Chan, Joseph Clark, Franco DeMonte, Patrick Gullane*

**9:00 – 10:00 a.m. Invited Presidential Lecture: Demanding Medical Excellence**  
(Cotillion Ballroom) *Michael Millenson, MD*

**10:00 – 10:15 a.m. Update on Skull Base: An Interdisciplinary Approach**  
(Cotillion Ballroom) *Randall Porter*

**10:15 – 10:30 a.m. Refreshment Break**  
(Wellington Foyer)

**10:30 – 12 noon Concurrent Sessions**

(Cotillion Ballroom) **Panel Discussion # 1: Endoscopic Approaches to the Cranial Base**  
*Amin Kassam (Moderator), Paul Donald, Fred Gentili, Daniel Pieper, Charles Teo*

(Buckingham Room) **Panel Discussion #2: Functional Outcomes in Neuro-otology and Rhinology Following Cranial Base Surgery**  
*Samuel Selesnick (Moderator), Peter Batra, Rick Friedman, Stephen Wetmore, Anthony Zeitouni*

**12 noon – 1:00 p.m. Lunch and Annual Business Meeting (NASBS Members Only)**  
(Governors Room – 3rd floor)



# NASBS SCIENTIFIC PROGRAM

**1:00 – 3:00 p.m. Proffered Papers – Oral Presentations**

*(Buckingham Room)* **Scientific Session A-1 – Abstracts 1-12**

*Moderators: Stephen Lewis and Marc Rosen*

**1:00 – 1:08 p.m. Abstract #1**

Endoscopic Cranial Base Neuroanatomy as Observed through Endonasal Transphenoidal Approach Using Image Guidance

*Promod Pillai (presenter) and Mario Ammirati*

**1:08 – 1:16 p.m. Abstract #2**

A New Classification of Transbasal Approaches

*Iman Feiz-Erfan (presenter), Robert F Spetzler, Randall W Porter, Stephen P Beals, Edward F Joganic, Salvatore C Lettieri and Franco DeMonte*

**1:16 – 1:24 p.m. Abstract #3**

Expanded Endoscopic Approach for Non-pituitary Skull Base Lesions

*Amir R. Dehdashti (presenter), Ahmed Ganna, Ian Witterick and Fred Gentili*

**1:24 – 1:32 p.m. Abstract #4**

Incidence and Prognostic Significance of Perineural Invasion in Patients with Paranasal Sinuses and Skull Base Cancer

*Ziv Gil (presenter), Diane L Carlson, Hilda Stambuk, Amar Gupta, Nancy Lee, Bradford Hoppe, Mark H Bilsky, Jatin P Shah and Dennis H Kraus*

**1:32 – 1:40 p.m. Abstract #5**

Juvenile Nasopharyngeal Angiofibroma with Intracranial Involvement: A Series of 7 Patients Treated Surgically

*Nevo S Margalit (presenter), Oshri Wasserzug, Maymon Shimon, Ziv Gil, Sergei Spektor and Dan Fliss*

**1:40 – 1:48 p.m. Abstract #6**

Nasopharyngeal angiofibroma: Prognostic Factors for Recurrence and Proposal of a Staging System

*Jose F Carrillo (presenter), Oliver Albores, Margarita C Ramirez, Vincenzo Aiello and Luis F Oñate-Ocaña*

**1:48 – 1:56 p.m. Abstract #7**

The Expanded Endoscopic Transnasal Approach for the Treatment of clival Chordomas

*Amir R. Dehdashti (presenter), Konstantina Karabatsou, Ian Witterick and Fred Gentili*

**1:56 – 2:04 p.m. Abstract #8**

Endoscopic Transnasal Odontoidectomy for Cervicalmedullary Compression

*Gerardo Zavala (presenter), Guy Petruzzelli, Vikram Prabhu and Russ Nockels*

**2:04 – 2:12 p.m. Abstract #9**

Endoscopic, Endonasal, Transethmoidal, Transcribriform, Transfovea Ethmoidalis Approach to the Anterior Skull Base and Anterior Cranial Fossa

*Theodore H Schwartz (presenter), Seth Brown, Abtin Tabaei, Ashutosh Kacker and Vijay K Anand*

**2:12 – 2:20 p.m. Abstract #10**

Bony Lesions Involving the Anterior Skull Base and Paranasal Sinuses; A Series of Our Cases with Emphasis on the Intracranial and Orbital Complications

*Nevo S Margalit (presenter), Haim Ezer, Oren Cavel and Dan Fliss*

**2:20 – 2:28 p.m. Abstract #11**

Early Clinical and Endocrine Outcomes in Our First 40 Patients With Cushing's Disease and Acromegaly Treated by a Purely Endoscopic Transsphenoidal Approach

*Jay Jagannathan (presenter), Adam S Kanter, Steven A Newman, Edward R Laws, Jr. and John A Jane, Jr.*

# N A S B S S C I E N T I F I C P R O G R A M

- 2:28 – 2:36 p.m. Abstract #12**  
Endoscopic Skull Base and Pituitary Surgery: Incidence and Successful Management of Complications  
*Paul Johnson (presenter), Seth M Brown, Abtin Tabaei, Vijay K Anand and Theodore H Schwartz*
- 2:36 – 3:00 p.m. Discussion**
- 1:00 – 3:00 p.m. Proffered Papers – Oral Presentations**  
*(Consulate Rooms)*  
**Scientific Session A-2 – Abstracts 13-24**  
*Moderators: Murali Guthikonda and Michael Shohet*
- 1:00 – 1:08 p.m. Abstract #13**  
Endoscopic Endonasal Resection of Esthesioneuroblastoma: A Multi-Center Study  
*Umamaheswar Duvvuri (presenter), Ricardo L Carrau, Carl H Snyderman, Amin B Kassam, Adam Folbe, Islam R Herzallah and Roy R Casiano*
- 1:00 – 1:16 p.m. Abstract #14**  
Stereoscopic 3-Dimensional Endoscopic Pituitary Surgery  
*Seth M Brown (presenter), Vijay K Anand, Abtin Tabaei and Theodore H Schwartz*
- 1:16 – 1:24 p.m. Abstract #15**  
Orbital Tumors Operated Using Transcranial Approaches; Our Series Of 42 Patients Operated 2003-2006  
*Nevo S Margalit (presenter), Haim Ezer, Erez Nosek and Dan Fliss*
- 1:24 – 1:32 p.m. Abstract #16**  
Nasal Morbidity Associated with Expanded Endonasal Approaches to the Skull Base  
*Allan Vescan (presenter), Carl Snyderman, Ricardo Carrau, Paul Gardner, Arlan Mintz and Amin Kassam*
- 1:32 – 1:40 p.m. Abstract #17**  
Esthesioneuroblastoma: The University of Michigan Experience 1994-2007  
*P. Daniel Ward (presenter) and Lawrence J Marentette*
- 1:40 – 1:48 p.m. Abstract #18**  
Juvenile Nasopharyngeal Angiofibroma - The Pittsburgh Experience  
*Trevor G Hackman (presenter), Carl H Snyderman, Ricardo L Carrau and Amin Kassam*
- 1:48 – 1:56 p.m. Abstract #19**  
Resection of the Odontoid Process through the Expanded Endonasal Approach: Clinical Experience from 14 Patients  
*Jayakar V Nayak (presenter), Paul A Gardner, Allan D Vescan, Amin B Kassam, Ricardo L Carrau, Richard M Spiro and Carl H Snyderman*
- 1:56 – 2:04 p.m. Abstract #20**  
Partial Mastoidectomy for the Safe Resection of Lateral Skull Base Tumors  
*John P Leonetti (presenter), Sam J Marzo and Neena Agarwal*
- 2:04 – 2:12 p.m. Abstract #21**  
Central Skull Base Osteomyelitis - Diagnosis and Treatment  
*Nevo Margalit (presenter), Oren Cavel, Roei Landsberg, Ziv Gil and Dan M Fliss*

# NASBS SCIENTIFIC PROGRAM

- 2:12 – 2:20 p.m. Abstract #22**  
Quantitative Analysis of Exposure of Staged Orbitozygomatic and Retrosigmoid Craniotomies for Lesions of the Petrous Apex and Clivus with Supratentorial and Infratentorial Extension  
*Andrew S Little (presenter), Nicholas C Bambakidis, Ashraf M Hassan, Pakrit Jitta, Cassius VC Reis, Neil Crawford, Mark C Preul, Pushpa Deshmukh, Joseph M Zabramski and Robert F Spetzler*
- 2:20 – 2:28 p.m. Abstract #23**  
A Safety Study of the Use of Vivostat® Patient-derived Fibrin Sealant Containing Tranexamic Acid in Neurosurgery  
*Lars Poulsgaard (presenter), Anette Mørck and Niels Erik Holm*
- 2:28 – 2:36 p.m. Abstract #24**  
The No-Drill Technique of Anterior Clinoidectomy-A Skull Base Approach Tailored to Pathology  
*Dongwoo John Chang (presenter)*
- 2:36 – 3:00 p.m. Discussion**
- 3:00 – 3:15 p.m. Refreshment Break**  
*(Wellington Ballroom Foyer)*
- 3:15 – 5:30 p.m. Proffered Papers – Oral Presentations**  
*(Buckingham Room)* **Scientific Session B-1 – Abstracts 25-37**  
*Moderators: Ehab Hanna and Raj Shrivastava*
- 3:15 – 3:24 p.m. Abstract #25**  
Endoscopic Transnasal Transphenoidal Resection of Clival Chordomas: Selective Use, Useful Adjunct, or a New Standard of Care?  
*Edward AM Duckworth (presenter), David Moller and James Chandler*
- 3:24 – 3:33 p.m. Abstract #26**  
Unusual Intracranial Lesions Managed With Skull Base Neurosurgical Approaches-Why We Need To Continually Emphasize Cerebrovascular/Skull Base Training in Neurosurgery  
*Dongwoo John Chang (presenter)*
- 3:33 – 3:42 p.m. Abstract #27**  
What is the Definition of ‘Competence’ in Intracranial Aneurysm Surgery?  
*Dongwoo John Chang (presenter)*
- 3:42 – 3:51 p.m. Abstract #28**  
Skull Base Surgery and Venous Problems  
*Jan Hemza (presenter), František Maršík, Stanislav Otáhal and Jakub Otáhal*
- 3:51 – 4:00 p.m. Abstract #29**  
Surgical Outcomes of Drillout Procedures for Management of Complex Frontal and Skull Base Pathology  
*Pete S Batra (presenter), Steven B Cannady and Donald C Lanza*
- 4:00 – 4:09 p.m. Abstract #30**  
Purely Endoscopic Access to Posterior Fossa Pathology  
*Frank J Hux (presenter) and Daniel R Pieper*

# N A S B S S C I E N T I F I C P R O G R A M

- 4:09 – 4:18 p.m. Abstract #31**  
Trans-antral Robotic Access to the Pituitary Gland  
*Michael E Kupferman (presenter), Franco Demonte, Ehab Y Hanna*
- 4:18 – 4:27 p.m. Abstract #32**  
A Quantitative Analysis of Working Areas and Angles of Approach to the Posterior Fossa and Petro-clival Region via the Retrosigmoid Approach  
*Nicholas C Bambakidis (presenter), Sam Safavi-Abassi, Joseph Zabramski, Mark C Preul and Robert F Spetzler*
- 4:27 – 4:36 p.m. Abstract #33**  
A Quantitative Anatomic and Morphometric Evaluation of the Craniocervical Junction with Specific Regard to the Vertebral Artery and Atlas  
*Nicholas C Bambakidis (presenter), Sam Safavi-Abbasi and Robert F Spetzler*
- 4:36 – 4:45 p.m. Abstract #34**  
Petroclival Meningiomas: Multimodality Treatment, and Outcomes at Long Term Follow-Up  
*Sabareesh Kumar Natarajan (presenter), Laligam N Sekhar, David Schessel and Akio Morita*
- 4:45 – 4:54 p.m. Abstract #35**  
Tentorial Meningiomas: Strategies for Safe Surgical Resection  
*Khaled M Aziz (presenter), Sebastien Froelich, Philip Theodosopoulos, Jeffery T Keller and John M Tew*
- 4:54 -5:03 p.m. Abstract #36**  
Auditory Brainstem Implantation in Children with Cochlear Nerve Aplasia / Dysplasia : Preliminary Report of Three Cases  
*Scott A Rutherford (presenter), John A Thorne, Andrew T King, Michel Neeff, Martin O'Driscoll, Lise Henderson, Shakeel R Saeed and Richard T Ramsden*
- 5:03 – 5:12 p.m. Abstract #37**  
Selective Use of the Retrosigmoid Approach for Acoustic Neuroma  
*Marc S Schwartz (presenter), Jose N Fayad, Rick A Friedman, William H Slattery and Derald E Brackmann*
- 5:12 – 5:30 p.m. Discussion**
- 3:15 – 5:30 p.m. Proffered Papers – Oral Presentations**  
*(Consulate Rooms)* **Scientific Session B-2 – Abstracts 38-50**  
*Moderators: Thom Loree and Kris Smith*
- 3:15 – 3:24 p.m. Abstract #38**  
Staged Resection of Large Acoustic Neuromas: Indications, Surgical Results, Facial Nerve Outcomes, and Complications  
*James K Liu (presenter), Ilman Kim, Matthew A Hunt, Sean O McMenomey and Johnny B Delashaw, Jr.*
- 3:24 – 3:33 p.m. Abstract #39**  
The Added Value of Manual Optimization of Radiosurgery Beams  
*Edward Melian (presenter), Anil Sethi, Vikram Prabhu and Douglas Anderson*
- 3:33 – 3:42 p.m. Abstract #40**  
Comparison of Open versus Endoscopic Resection of Inverted Papilloma  
*Pete S Batra (presenter), Nathan B Sautter, Steven B Cannady, Martin J Citardi and Hwan-Jung Roh*



# N A S B S S C I E N T I F I C P R O G R A M

- 3:42 – 3:51 p.m. Abstract #41**  
Meningoencephalocele Presenting as Orbital Varix: A Complication of Frontal Sinus Trephine  
*Michael R Shohet (presenter), Arthur L Jenkins III and Ebrahim Elahi*
- 3:51 – 4:00 p.m. Abstract #42**  
Outcome of Microsurgical Clipping of Consecutive 50 Complex Basilar Aneurysms Using the Pretemporal Transzygomatic Transcavernous Approach  
*Ali F Krisht (presenter), Niklaus Krayenbuhl, David Sercl, Kerem Bikmaz and Paulo A Kadri*
- 4:00 – 4:09 p.m. Abstract #43**  
The “Gasket-Seal” Watertight Closure in Endoscopic Endonasal Skull Base Surgery  
*Theodore H Schwartz (presenter), Seth Brown, Abtin Tabaei and Vijay K Anand*
- 4:09 – 4:18 p.m. Abstract #44**  
Endoscopic Endonasal Approach to the Infratemporal Fossa  
*Lee A Zimmer (presenter), Aaron Brescia, Bharat Guthikonda, Jeffrey T Keller and Philip V Theodosopoulos*
- 4:18 – 4:27 p.m. Abstract #45**  
Retrospective Review of 24 Cases of Head and Neck Cancer with Skull Base Invasion  
*Federico L Ampil (presenter), Cherie Ann O Nathan, Gloria Caldito, Anil Nanda and Timothy S Lian*
- 4:27 – 4:36 p.m. Abstract #46**  
Surgical Management of Parapharyngeal Space Tumors: a 12-Year Review  
*Avi Khafif (presenter), Yoram Segev, Ziv Gil and Dan M Fliss*
- 4:36 – 4:45 p.m. Abstract #47**  
Cavernous Malformations of the Skull Base and Cranial Nerves  
*John B Bitner (presenter), Kerry D Olsen, Caterina Giannini, Collin LW Driscoll and Michael J Link*
- 4:45 – 4:54 p.m. Abstract #48**  
Expression of the Hypoxia Marker, Carbonic Anhydrase 9, is Associated with Anaplastic Phenotypes in Meningiomas  
*Heon Yoo (presenter), Gilson S Baia, Justin S Smith, Michael W McDermott, Andrew W Bollen, Scott R Vandenberg, Kathleen R Lamborn and Anita Lal*
- 4:54 – 5:03 p.m. Abstract #49**  
New Model of Bone Reconstruction Specially Designed for Skull Base Surgery-longtesting in Primates  
*Cleopatra Charalampaki (presenter), Axel Heimann, Laszlo Kopacs, Axel Perneczky and Oliver Kempfski*
- 5:03 – 5:12 p.m. Abstract #50**  
Reconstruction Following Middle Fossa Resections  
*Paul J Donald (presenter), Danny Enepekides, Gregory Farwell and James Boggan*
- 5:12 – 5:30 p.m. Discussion**
- 6:00 – 8:00 p.m. Wine and Cheese Reception**  
(Wellington Ballroom) **Exhibit Hall Opens**

# NASBS SCIENTIFIC PROGRAM

## Saturday, May 26, 2007

**7:00 – 5:30 p.m. Registration Open**

*(2nd Floor Registration Desk)*

**7:00 – 8:00 a.m. Breakfast with the Exhibitors**

*(Wellington Ballroom)*

## PLENARY SESSION #2

*Moderators: Anil Nanda and Daniel Nuss*

**8:00 – 8:30 a.m. Invited Presidential International Lecture**

*(Buckingham Room) Nasopharyngeal Carcinoma-A Model for Multidisciplinary Skull Base Treatment  
Sheng-Po Hao, MD (Taiwan)*

**8:30 – 9:30 a.m. Concurrent Sessions**

*(Cotillion Ballroom) Panel Discussion #3: Hearing Preservation and Restoration Following Skull Base Surgery  
Ian Storper (Moderator), Derald Brackman, Douglas Chen, Sean McMenomey, P. Ashley Wackym*

*(Buckingham Ballroom) Panel Discussion #4: Malignant Tumors of the Cranial Base: Defining the Extent and Limits of  
Surgical Options*

*Jatin Shah (Moderator), Vinod Anand, Riccardo Carrau, Eduardo Diaz, Raj Murali*

**9:30 – 10:15 a.m. Honored Guest Speaker**

*(Cotillion Ballroom) Victor Schramm, MD*

**10:15 – 10:30 a.m. Refreshment Break in the Exhibit Hall**

*(Wellington Ballroom)*

**10:30 – 11:30 a.m. Concurrent Sessions**

*(Cotillion Ballroom) Panel Discussion #5: Radiosurgery in the Management of Cranial Base Neoplasms  
Edward Melian (Moderator), Randy Jensen, John Suh, Roy Tishler, Thomas Witt*

*(Buckingham Room) Panel Discussion #6: Cranio-veterebral Junction Involvement in Cranial Base Neoplasms  
Arnold Menezes (Moderator), John Golfinos, Russ Nockels, Chandranath Sen,*

**11:30 – 12:00 noon NASBS President's Address: Teamwork, Innovation and Excellence in Skull Base Surgery**

*(Cotillion Ballroom) Guy Petruzzelli, MD, PhD*

**12 noon – 1:00 p.m. Lunch with the Exhibitors**

*(Wellington Ballroom)*

**1:00 – 3:00 p.m. Proffered Papers – Oral Presentations**

*(Buckingham Room) Scientific Session C-1 – Abstracts 51-62*

*Moderators: Eric Chang and Michael Lemole*

# NASBS SCIENTIFIC PROGRAM

- 1:00 – 1:08 p.m. Abstract #51**  
Zones of Exposure for Hypoglossal Nerve Lesions Using an Extended Infratemporal Fossa Approach: A Cadaveric Morphometric Analysis  
*James K Liu (presenter), Gregory J Anderson, Sean O McMenomey and Johnny B Delashaw, Jr.*
- 1:08 – 1:16 p.m. Abstract #52**  
Incidence and Management of Severe Intracranial Hypotension from Lumbar Drainage After Skull Base Surgery: Intrathecal Saline Infusion and Epidural Blood Patch  
*James K Liu (presenter), Ahmed M Raslan, William T Couldwell and Johnny B Delashaw, Jr.*
- 1:16 – 1:24 p.m. Abstract #53**  
Endoscopic Endonasal Resection of the Odontoid Process  
*Juan C Alzate (presenter), Chandranath Sen, Peter Costantino and Adesh Tandon*
- 1:24 – 1:32 p.m. Abstract #54**  
Eyelid Approach to Anterior Circulation Aneurysms  
*Norberto Andaluz (presenter), Mario Zuccarello and Likith Reddy*
- 1:32 – 1:40 p.m. Abstract #55**  
Comparison of Minimally Invasive Pituitary Surgery and Traditional Microscopic Hypophysectomy in the Treatment of Pituitary Tumors  
*Ali Moshaver (presenter), Srujan Ganta, Robert W Broad and Richard Liu*
- 1:40 – 1:48 p.m. Abstract #56**  
Technical Note: Novel Use of the Xomed Irrigating 70&#9702; Angled Diamond Tip Drill for Endoscopic Transoral Odontoidectomy  
*James J Evans (presenter), Marc R Rosen*
- 1:48 – 1:56 p.m. Abstract #57**  
Endoscopic Pituitary Surgery: A Meta-Analysis  
*Abtin Tabaei (presenter), Vijay K Anand, Yolanda Barron, David H Hiltzik, Seth Brown, Ashutosh Kacker, Madhu Mazumdar and Theodore H Schwartz*
- 1:56 – 2:04 p.m. Abstract #58**  
Vascularized Nasal Septal Flap for Reconstruction of Skull Base Defects following Expanded Endonasal Approaches to the Skull Base: Outcome Analysis  
*Allan D Vescan (presenter), Ajith Thomas, Ricardo Carrau, Carl Snyderman, Daniel Prevedello, Paul Gardner, Arlan Mintz and Amin Kassam*
- 2:04 – 2:12 p.m. Abstract #59**  
Intra-operative Pituitary Adenoma Identification Using Intra-operative Spectroscopic System  
*M Sam Eljamel (presenter), Graeme Leese and Harry Moseley*
- 2:12 – 2:20 p.m. Abstract #60**  
Effects of The Subcranial Approach on Facial Growth and Development  
*Benjamin Shlomi (presenter), Ziv Gil and Dan M Fliss*
- 2:20 – 2:28 p.m. Abstract #61**  
Outcome and complications of the Extended Subcranial Approach to the Anterior Skull Base  
*Dan M Fliss (presenter), Ziv Gil and Nevo Margalit*
- 2:28 – 2:36 p.m. Abstract #62**  
Postoperative Control of Acute Pain Following Craniofacial Oncological Surgeries: A Prospective Study  
*Dan M Fliss (presenter), Nevo Margalit and Ziv Gil*

# N A S B S S C I E N T I F I C P R O G R A M

**2:36 – 3:00 p.m. Discussion**

**1:00 – 3:00 p.m. Proffered Papers – Oral Presentations**

*(Consulate Rooms)*

**Scientific Session C-2 – Abstracts 63-74**

*Moderators: James Chandler and Ted Teknos*

**1:00 – 1:08 p.m. Abstract #63**

Sparing the Eye In Craniofacial Surgery For Superior Nasal Vault Malignancies: Is It Worth It?

*Garth F Essig (presenter), Steven A Newman, and Paul A Levin*

**1:08 – 1:16 p.m. Abstract #64**

The Posterior Pedicle Inferior Turbinate Flap: A New Vascularized Flap for Skull Base Reconstruction

*Felipe Fortes (presenter), Ricardo Carrau, Carl Snyderman, Allan Vescan, Daniel Prevedello, Arlan Mintz, Paul Gardner, and Amin Kassam*

**1:16 – 1:24 p.m. Abstract #65**

Transpterygoid Transposition of a Temporoparietal Fascia Flap

*Ricardo Carrau (presenter), Paul Gardner, Felipe SG Fortes, Amin Kassam, Carl Snyderman, Daniel Prevedello, Allan Vescan and Arlan Mintz*

**1:24 – 1:32 p.m. Abstract #66**

Update on the Use of Hydroxyapatite Granules in Aesthetic and Reconstructive Facial Surgery

*Rebecca Studinger (presenter), Anil Shetty, Jason Hess, Gustavo Bello-Rojas, Arunesh Gupta, Halil I Canter, and Ian T Jackson*

**1:32 – 1:40 p.m. Abstract #67**

Transpterygoid Transposition of a Temporoparietal Fascia Flap for Skull Base Reconstruction

*Daniel M Prevedello (presenter), Felipe S Fortes, Ricardo Carrau, Carl Snyderman, Arlan Mintz, Paul Gardner, Allan Vescan and Amin B Kassam*

**1:40 – 1:48 p.m. Abstract #68**

Sublabial Transmaxillary Approach to the Rostral Middle Fossa

*Pankaj A Gore (presenter), Michael B Donellan, Bonnie C Ong, Thomas R Kertesz and Charles Teo*

**1:48 – 1:56 p.m. Abstract #69**

Endoscopic, Expanded Endonasal Approach for Resection of Skull Base Chondrosarcomas

*Paul A Gardner (presenter), Amin B Kassam, Carl Snyderman, Ricardo Carrau, Arlan Mintz and Allan Vescan*

**1:56 – 2:04 p.m. Abstract #70**

Robotic Assisted Endoscopic Resection and Repair of the Anterior Skull Base

*Ehab Y Hanna (presenter), Franco Demonte, Chris Holsinger and Michael Kupferman*

**2:04 – 2:12 p.m. Abstract #71**

Endoscopic, Expanded Endonasal Approach for Resection of Skull Base Chordomas

*Paul A Gardner (presenter), Amin B Kassam, Carl Snyderman, Ricardo Carrau, Arlan Mintz and Allan Vescan*

**2:12 – 2:20 p.m. Abstract #72**

Use of a Novel Robotic System for Retrosigmoid Internal Auditory Canal Decompression

*Ravi N Samy (presenter) and Albert B Bosse*



# NASBS SCIENTIFIC PROGRAM

- 2:20 – 2:28 p.m. Abstract #73**  
Quantification of the Frontotemporal Orbitozygomatic (FTOZ) Approach Using a Three-dimensional Visualization and Modeling Application  
*Anthony L D'Ambrosio (presenter), J Mocco, Todd C Hankinson, Harry R van Loveren and Jeffrey N Bruce*
- 2:28 – 2:36 p.m. Abstract #74**  
Delayed Facial Palsy after the Anterior Petrosal Approach  
*Bharat Guthikonda (presenter), Myles L Pensak and Philip V Theodosopoulos*
- 2:36 – 3:00 p.m. Discussion**
- 3:00 – 3:15 p.m. Refreshment Break in the Exhibit Hall**  
(Wellington Ballroom)
- 3:15 – 5:30 p.m. Proffered Papers – Oral Presentation**  
(Buckingham Room) **Scientific Session D-1 – Abstracts 75-87**  
*Moderators: Richard Bryne and Charles Rosen*
- 3:15 – 3:24 p.m. Abstract #75**  
Multichannel Auditory Brainstem Implant in Japan: Factors Associated With Audiological Outcome  
*Hirofumi Nakatomi (presenter), Kozo Kumakawa, Masaaki Usui, Akio Morita, Kimitaka Kaga, Yojiro Seki and Atsushi Komatsuzaki*
- 3:24 – 3:33 p.m. Abstract #76**  
Risk of Recurrence and Regrowth after Acoustic Neuroma Resection  
*Hirofumi Nakatomi (presenter), Michael J Ebersold, Stephen G Harner, Corin D Doriscoll and Michel J Link*
- 3:33 – 3:42 p.m. Abstract #77**  
The Management of Foramen Magnum Meningiomas: Surgical Approach And Outcome.  
*Konstantina Karabatsou (presenter), Amir R Dehdashti, Ahmed Ganna and Fred Gentili*
- 3:42 – 3:51 p.m. Abstract #78**  
Petroclival Meningiomas: Surgical Approach and Outcome  
*Ahmed A Ganna (presenter), Amir R Dehdashti, Konstantina Karabatsou and Fred Gentili*
- 3:51 – 4:00 p.m. Abstract #79**  
The Trautman's Triangle and the Transpetrosal Approaches: An Anatomical Study  
*Cassius VC Reis (presenter), Joseph M Zabramski, Sam Safavi-Abassi, Pushpa Deshmukh, Robert F Spetzler and Mark C Preul*
- 4:00 – 4:09 p.m. Abstract #80**  
Comparative Analysis between Retrosigmoid Approach and Lateral Supracerebellar Infratentorial Approaches along the Lateral Surface of Ponto-Mesencephalic Junction: A Different Perspective  
*Pakrit Jittapiromsak (presenter), Pushpa Deshmukh, Andrew Little, Robert F Spetzler and Mark C Preul*
- 4:09 – 4:18 p.m. Abstract #81**  
Patient Satisfaction Outcomes of Bone-Anchored Hearing Aid Provision for Unilateral Deafness Following Acoustic Neuroma Surgery  
*Charlotte L Ward (presenter), Anthony D Morley, Simon Hogan, Alison Burchett, Nick C Saunders and Robert M Tranter*

# N A S B S S C I E N T I F I C P R O G R A M

- 4:18 – 4:27 p.m. Abstract #82**  
Petrous Meningiomas  
*Burak Sade (presenter) and Joung H Lee*
- 4:27 – 4:36 p.m. Abstract #83**  
Posterior Midline Approach for Large Anterior/Anterolateral Foramen Magnum  
*Sunil Kumar Gupta (presenter), Virender Kumar Khosla, Rajesh Chhabra and Kanchan Kumar Mukherjee*
- 4:36 – 4:45 p.m. Abstract #84**  
Infra and Supra Tentorial Enterogenous Cyst  
*Marco Marchionni (presenter), Colin Smith and M. Sam Eljamel*
- 4:45 – 4:54 p.m. Abstract #85**  
Craniovertebral Junction Tuberculosis: Is Surgery Required?  
*Kanchan Kumar Mukherjee (presenter), Sunil Kumar Gupta Sandeep Mohindra, Virender Kumar Khosla, Rahul Gupta, Manoj Kumar Tewari, Ashis Pathak, Niranjana Khandelwal, Suresh Narain Mathuriya and Rajesh Chhabra*
- 4:54 – 5:03 p.m. Abstract #86**  
Minocycline as a Neuroprotective Perioperative Antibiotic in Skull Base Tumors and Prevention of Delayed Facial Palsies (in Acoustic Neuromas), A Before and After Study  
*Ryan Janicki (presenter), Dan Warren, Brian Westerberg and Ryojo Akagami*
- 5:03 – 5:12 p.m. Abstract #87**  
Internal Auditory Canal Decompression for the Control of Vertigo and Hearing Loss in Osteopetrosis  
*Jack A. Shohet (presenter) and Mark E. Linskey*
- 5:12 – 5:30 p.m. Discussion**
- 3:15 – 5:30 p.m. Preferred Papers – Oral Presentations**  
*(Consulate Rooms)* **Scientific Session D-2 – Abstracts 88-100**  
*Moderators: Amin Kassam and Jacques Morcos*
- 3:15 – 3:24 p.m. Abstract #88**  
Use Of U-Clip™ Sutures for Endoscopic Transnasal Repair of Ethmoid Meningoencephalocele  
*James J Evans (presenter), Gentian Toshkezi, Julie Wright and Marc R Rosen*
- 3:24 – 3:33 p.m. Abstract #89**  
A Technique for a Medial Supraorbital Craniotomy through a Medial Eyebrow Skin Incision to Approach the Anterior Fossa  
*David S Rosen (presenter), Stephen Shafizadeh, Richard G Fessler and Bakhtiar Yamini*
- 3:33 – 3:42 p.m. Abstract #90**  
Carotid Artery Injury: An Uncommon Complication of Endoscopic Transnasal Cranial Base Procedures  
*James J Evans (presenter), Gentian Toshkezi and Marc R Rosen*
- 3:42 – 3:51 p.m. Abstract #91**  
Tranexamic Acid Infusion Reduces the Rate of Human Blood Product Transfusion During Skull Base Tumour Surgery  
*Peter A Gooderham (presenter) and Ryojo Akagami*

# NASBS SCIENTIFIC PROGRAM

- 3:51 – 4:00 p.m. Abstract #92**  
Ocular Coherence Tomography in the Assessment of Meningiomas  
*Steven A Newman (presenter)*
- 4:00 – 4:09 p.m. Abstract #93**  
Bone Regrowth Using a Pleuripotent Stem Line Derived from Peripheral Adipose Tissue  
*Jason Hess (presenter), Gustavo Bello-Rojas, Rebecca Studinger, Anil Shetty, Arunesh Gupta, Halil I Canter and Ian T Jackson*
- 4:09 – 4:18 p.m. Abstract #94**  
Predictors of Short-Term Outcomes Following Endoscopic Pituitary Surgery  
*Abtin Tabaei (presenter), Vijay K Anand, Yolanda Barron, Seth Brown, Madhu Mazumdar and Theodore H Schwartz*
- 4:18 – 4:27 p.m. Abstract #95**  
Multidisciplinary Management of Sinonasal Undifferentiated Carcinoma  
*Vu T Ho (presenter), Daniel Ward, Erin Lin, Jason A Heth, Janet Urban and Lawrence J Marentette*
- 4:27 – 4:36 p.m. Abstract #96**  
Taming The Cavernous Sinus: Technique of Hemostasis Using Fibrin Glue  
*Ali F Krisht (presenter), Niklaus Krayenbuhl, Ahmad Hafez and Juha Hernesniemi*
- 4:36 – 4:45 p.m. Abstract #97**  
Retromandibular Fossa Approach To The Cervical Internal Carotid Artery  
*Yusuf Izci (presenter), Roham Moftakhar, Mark Pyle and Mustafa K Baskaya*
- 4:45 – 4:54 p.m. Abstract #98**  
Determination of Prognostic Markers of Skull Base Tumors  
*Lamont R Jones (presenter), Lawrence J Marentette, Victor Elner, Patrick Guffey, Katrina G Cordell, Preetha P Kanjirath, Thomas E Carey and Andrew Flint*
- 4:54 – 5:03 p.m. Abstract #99 The Fate Of Autogeneous Free Fat Grafts after Skull Base Surgery**  
*Yury A Shulev (presenter) and Ovanes R Akobyan*
- 5:03 – 5:12 p.m. Abstract #100**  
The Role Of Developmental Genes in Chordoma  
*Michael J Kelley (presenter), Josh Sommer, Sufeng Li, Enyu Ding and Fan Dong*
- 5:12 – 5:30 p.m. Discussion**
- 6:00 – 10:00 p.m. Annual Reception and Banquet**  
*(Cotillion Ballroom)*

# N A S B S   S C I E N T I F I C   P R O G R A M

**Sunday, May 27, 2007**

**7:00 – 12 noon      Registration Open**

*(2nd Floor Registration Desk)*

**7:30 – 8:30 a.m.      Breakfast Seminar Sessions**

*(Buckingham Room)*      **Breakfast Seminar #4: Management of Jugular Foramen Tumors**

*John Leonetti (Moderator), John Buatti, Michael Chicoine, Ricardo Ramina*

*(Consulate Rooms)*      **Breakfast Session #5: Facial Reanimation following Cranial Base Surgery**

*Ritvik Mehta (Moderator), Tessa Hadlock, Carl Heilman, Dan Nuss, Darl Vandevender*

*(Mayfair Room)*      **Breakfast Seminar #6: Cranial Base Reconstruction**

*Peter Costantino (Moderator), Dan Fliss, Ian Jackson, John Jane, Sr., Peter Neligan*

## **Plenary Session #3**

*Moderators: Saleem Abdulrauf and Jacques Morcos*

**8:30 – 9:30 a.m.      Honored Guest Speaker: Bahman Emami, MD**

*(Cotillion Ballroom)*

**9:30 – 10:15 a.m.      The Logistics of Establishing and Leading a Skull Base Program**

*(Cotillion Ballroom)*      *Thomas Origiano (Moderator), Paul Camarata, William Couldwell, Ehab Hanna, Charles Moore*

**10:15 – 10:30 a.m.      Refreshment Break in the Exhibit Hall**

*(Wellington Ballroom)*

**10:30 – 11:00 a.m.      Emerging Technologies in Cranial Base Imaging**

*(Cotillion Ballroom)*      *Mark Linskey*

**11:00 a.m. – 12 noon      Concurrent Sessions**

*(Cotillion Ballroom)*      **Panel Discussion #7: Facial Pain Syndromes**

*Nicholas Boulis (Moderator), Douglas Anderson, Andre Machado, Konstantin Slavin, Mario Zuccarello,*

*(Buckingham Room)*      **Panel Discussion #8: Infratemporal Fossa Malignancies**

*Gady Har-El (Moderator), Ezra Cohen, Robert Haddad, Thomas McCaffrey, Michael O'Leary, Mark Varvares*

**12 noon                  Meeting Adjourned**

# SCIENTIFIC POSTERS

## Scientific Posters

The scientific posters will be displayed throughout the meeting.

*Posters 101-144*

### Abstract #101

Transnasal Endoscopic Removal of Orbital, Ethmoidal Sinus and Anterior Skull Base Foreign Body with Mucocele Formation.

*Colin D Pero (presenter) and Daniel W Nuss*

### Abstract #102

Bilateral Glomus Jugularae Parangliomas Treated With Fractionated Stereotactic Intensity Modulated Radiotherapy (IMRT) In A Patient With Past History Bilateral Carotid Body Tumors

*Edward Melian MD (presenter), John Leonetti MD, Elke Aippersbach MD, Anil Sethi PhD, Douglas Anderson MD and Bahman Emami MD*

### Abstract #103

Unusual Presentations of Skull Base Dural Cavernous Fistulae

*Sebastian F Koga (presenter) and Steven A Newman*

### Abstract #104

Postoperative Activity Restrictions Following Endoscopic Repair of CSF Rhinorrhea: A Survey of Rhinologic and Skull Base Surgeons

*Ryan S Borress (presenter), Ameet R Kamat and Gady Har-El*

### Abstract #105

Postoperative Intracranial Bleeding after Huge Meningioma Surgery

*Seon-Hwan Kim (presenter), Shi-Hun Song, Seung-Won Choi, Jin-Young Youm, Hyun-Song Koh and Youn Kim*

### Abstract #106

The Use Of Lateral Temporal Bone Resection in the Management of Malignancies of the Ear and Temporal Bone: A Review of Survival.

*Michael G Moore (presenter), Daniel G Deschler, Michael J McKenna, Mark A Varvares and Derrick T Lin*

### Abstract #107

Use of Nasal Trumpets for Airway Diversion in Anterior Craniofacial Resections

*Carol M Lewis (presenter), Derrick T Lin and Daniel G Deschler*

### Abstract #108

Dissecting Aneurysm of the Middle Cerebral Artery Anterior Temporal Branch: A Case Report

*Veysel K Bikmaz (presenter), Celal Iplikcioglu, Erdinc Ozek, Cem Dinc and Ozenc Minareci*

### Abstract #109

Giant Cell Tumor of the Jugular Foramen

*Masoud Motasaddi Zarandy (presenter), M T Khorsandi, N – Yazdani and M Saeedi*

### Abstract #110

Lung Carcinoma With Metastasis to Seventh Cranial Nerve

*Pelagia E Kouloumberis (presenter), Faris J Fakhoury and G. Michael Lemole*



# SCIENTIFIC POSTERS

## **Abstract #111**

Recurrent Metastatic Breast Cancer Presenting as Frontoethmoid Sinusitis with Sagittal Sinus Thrombosis: A Case Report  
*Joshua B Silverman (presenter) and Stacey Gray*

## **Abstract #112**

Clivus Fibrosis: Natural History of a Benign Condition Mimicking Chordoma  
*Iman Feiz-Erfan (presenter), Robert F Spetzler, Randall W Porter, William L White, Joseph E Heiserman and Stephen W Coons*

## **Abstract #113**

Primary Petroclival Melanoma-Case Report  
*Jie Tang (presenter), Junting Zhang, Zheng Wu and Liwei Zhang*

## **Abstract #114**

Vascular Compression Zone Study at Hemifacial Spasm (HFS)  
*Yury A Shulev (presenter) and Konstantin S Gordienko*

## **Abstract #115**

The Transsylvian-Perforator Approach to the Thalamo-Mesencephalic Junction: Technical Note of a New Approach  
*Iman Feiz-Erfan (presenter), Eric M Horn and Robert F Spetzler*

## **Abstract #116**

Prognostic Factors of Patients with Petroclival Meningiomas  
*Junting Zhang (presenter), Zhen Wu, Guijun Jia, Liwei Zhang and Zhongcheng Wang*

## **Abstract #117**

Conductive Hearing Conservation in Glomus Jugulare Tumors: A Case Report Describing Reconstruction of the Conductive Hearing Apparatus.  
*Matthew J Bak (presenter) and Paul O Dutcher*

## **Abstract #118**

Vidian Canal: Analysis and Relationship to the Internal Carotid Artery  
*Allan D Vescan (presenter), Carl H Snyderman, Ricardo Carrau, Barton Branstetter, Arlan Mintz, Paul Gardner and Amin Kassam*

## **Abstract #119**

Microsurgical Treatment of Small Acoustic Neuromas  
*Bharat Guthikonda (presenter), Myles L Pensak, Ravi N Samy and Philip V Theodosopoulos*

## **Abstract #120**

Minimally Invasive Procedures in Sellar and Parasellar Tumor Surgery  
*Ante Melada (presenter), Josip Paladino and Andrej Desnica*

## **Abstract #121**

Minimally Invasive Transsphenoidal Surgery:  
*Marc R Rosen (presenter), Kapil Saigal, Sonia Chaudry and James J Evans*

## **Abstract #122**

Feasibility and Safety of Transnasal Resection Of Meningiomas  
*Seth M Brown (presenter), Vijay K Anand, Abtin Tabaee and Theodore H Schwartz*

## **Abstract #123**

Ten Year Follow Up Results of Craniofacial Procedures  
*Ian T Jackson (presenter) and Halil I Canter*

# SCIENTIFIC POSTERS

## **Abstract #124**

Outpatient Endoscopic Evaluation of Skull Base Repairs following Minimally Invasive Transsphenoidal Pituitary Surgery  
*Marc R Rosen (presenter), Kapil Saigal and James J Evans*

## **Abstract #125**

Neurosurgical Training-Lab in St-Petersburg (Second Year Of Work)  
*Jamil A Rzaev (presenter), Victor V Rudenko, Aleksey I Gayvoronsky and Olga V Rzaeva*

## **Abstract #126**

The Anatomy of the Ascending Pharyngeal Artery and Its Implication for Neurosurgical and Endovascular Procedures  
*Daniel Cavalcanti (presenter), Cassius VC Reis, Ricardo Hanel, Sam Safavi-Abassi, Pushpa Deshmukh, Robert F Spetzler and Mark C Preul*

## **Abstract #127**

The Management of Trigeminal Schwannomas.  
*Andrew T King (presenter), Gareth Evans, Shakeel R Saeed, Paolo Perrini, Richard T Ramsden, Scott A Rutherford*

## **Abstract #128**

Esthesioneuroblastoma: The Massachusetts General Hospital and Massachusetts Eye and Ear Infirmary Experience with Craniofacial Resection, Proton Beam Radiation and Chemotherapy.  
*Anthony C Nichols (presenter), Annie Chan, William T Curry, Daniel G Deschler and Derrick T Lin*

## **Abstract #129**

Antelolateral Thigh Free Flap Reconstruction after Temporal Bone Resection  
*Jose A Sanclement, MD (presenter), Daniel G Deschler MD, Michael J McKenna MD and Derrick T Lin MD*

## **Abstract #130**

Rosai-Dorfman Disease of The Sella Following Resection of a Nonfunctional Pituitary Adenoma: Case Report  
*Iman Feiz-Erfan (presenter), Janet M Bruner, Ralph G Dacey Jr. and Ian E McCutcheon*

## **Abstract #131**

Extent Of Resection During Endoscopic Transsphenoidal Pituitary Surgery with Intraoperative Magnetic Resonance Imaging  
*Bharat Guthikonda (presenter), Sebastien Froelich, John M Tew and Philip V Theodosopoulos*

## **Abstract #132**

Quality of Life in Patients after Pure Endoscopic Transphenoidal Resection of Pituitary Adenomas  
*Konstantina Karabatsou (presenter), Ahmed Ganna, Amir R Dehdashti and Fred Gentili*

## **Abstract #133**

Dilemma in Therapeutic Management in Ear Cancer  
*Won-Sang Lee (presenter), Sung Huhn Kim, Jong Dae Lee, Ho-Ki Lee and In-Seok Moon*

## **Abstract #134**

Acquisition of Surgical Skills for Endonasal Skull Base Surgery: A Training Program  
*Arlan Mintz (presenter), Carl Snyderman, Amin B Kassam, Ricardo Carrau, Paul Gardner and Allan Vescan*

## **Abstract #135**

Endoscopic, Expanded Endonasal Approach for Anterior Skull Base Lesions  
*Amin B Kassam (presenter), Ajith Thomas, Paul Gardner, Carl Snyderman, Ricardo Carrau, Arlan Mintz and Allan Vescan*

## **Abstract #136**

Sparing The Eye In Craniofacial Surgery For Superior Nasal Vault Malignancies: Is It Worth It?  
*Garth F Essig (presenter), Steven A Newman, Paul A Levine*

# SCIENTIFIC POSTERS

**Abstract #137**

Unilateral Middle Ear Effusion: An Early Indication of Occult Skull Base Tumors

*John P Leonetti (presenter), Sam J Marzo, Troy Woodard*

**Abstract #138**

Optimizing the Nasoseptal Flap for Skull Base Reconstruction

*Carlos D Pinheiro-Neto (presenter), Daniel M Prevedello, Ricardo L Carrau, Carl H Snyderman, Arlan Mintz, Paul Gardner, Ajith J Thomas and Amin B Kassam*

**Abstract #139**

Pituitary Transposition

*Daniel M Prevedello (presenter), Amin B Kassam, Ajith J Thomas, Paul Gardner, Arlan Mintz, Carl Snyderman and Ricardo Carrau*

**Abstract #140**

Long-term Results of Craniofacial Implantation: A Return to Methylmethacrylate

*Anil Shetty (presenter), Jason Hess, Rebacca Studinger, Gustavo Bello-Rojas, Arunesh Gupta, Halil I Canter and Ian T Jackson*

**Abstract #141**

Orbitocranial Penetrating Trauma by a Tree Branch: Case Report and Literature Review

*Clara R Epstein MD (presenter) and Dongwoo J Chang MD, FRCS(C)*

**Abstract #142**

Facial Swing For Central and Lateral Skull Base Exposure

*Ian T Jackson MD (presenter), Daniel R Pieper MD and Barbara J Beal RN*

**Abstract #143**

Surgical Treatment of Anterior Cranial Fossa Meningiomas: Complications and Outcome


*Vijayakumar Javalkar (presenter) and Anil Nanda*

**Abstract #144**

How to Prevent Intracranial Infection in Anterior Skull Base with Simultaneous Nasal Cavity Surgery

*Ian T Jackson MD (presenter), Daniel R Pieper MD and Barbara J Beal RN*

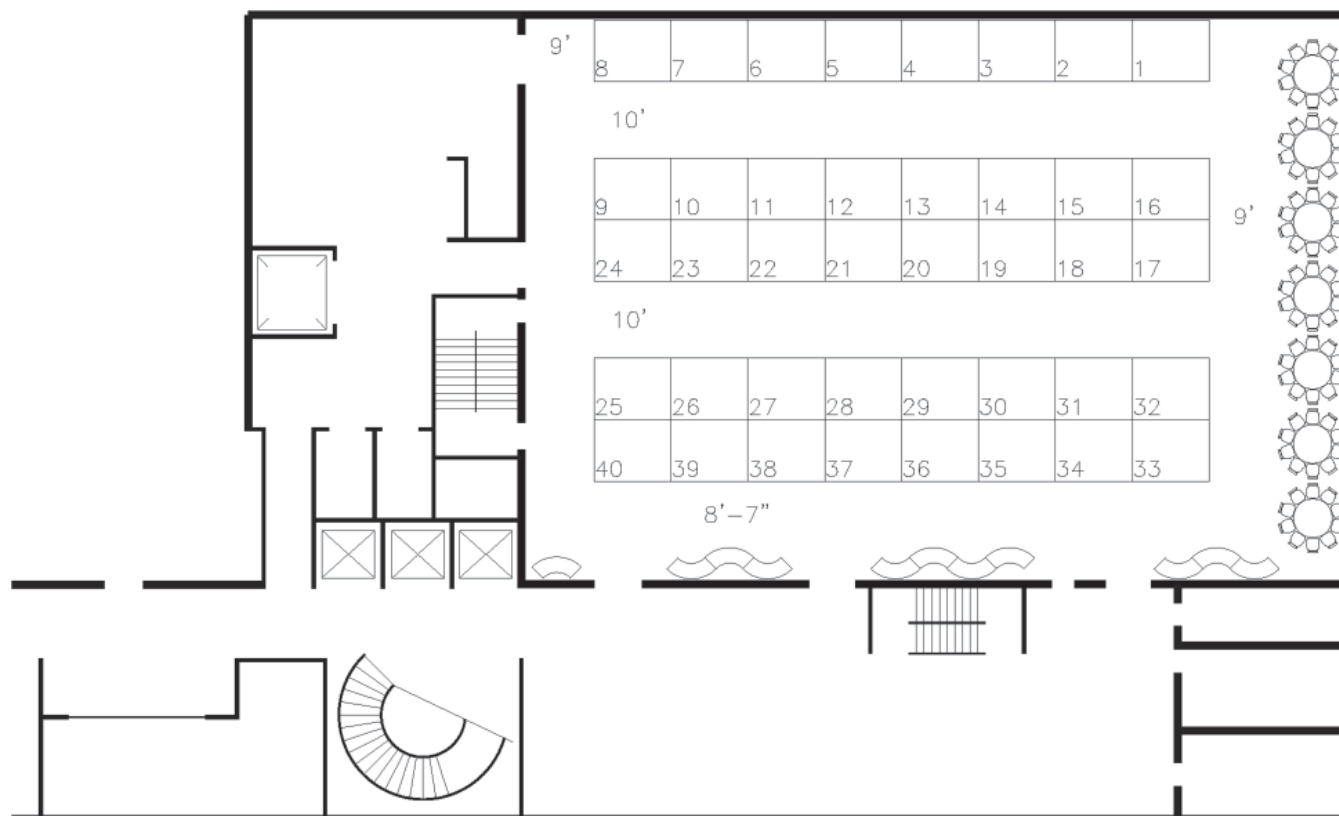
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5<sup>th</sup> International Skull Base Congress of the  
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the Annual Meeting of the  
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# EXHIBITOR FLOOR PLAN



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Anspach Companies .....	Booth #31	Medtronic.....	Booth #23 & 24
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Bracco AMT .....	Booth #9 & 10	OmniGuide .....	Booth #20 & 21
Carl Zeiss Surgical, Inc.....	Booth #32	OsteoMed, LP.....	Booth #16
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Gore & Associates .....	Booth #25	Synergetics, Inc.....	Booth 17
Gyrus ACMI ENT Division.....	Booth #26	Synthes CMF .....	Booth 28
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# NORTH AMERICAN SKULL BASE SOCIETY

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☐ North American Membership (\$100.00 Processing Fee)

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MEDICAL SCHOOL: INSTITUTION	DATE STARTED	DATE COMPLETED	
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EXPERIENCE:

CURRENT CLINICAL SPECIALTY: \_\_\_\_\_ #YEARS OF PRACTICE: \_\_\_\_\_  
HOSPITAL AFFILIATIONS: \_\_\_\_\_  
TEACHING PROGRAM AFFILIATION: \_\_\_\_\_  
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NAME	ADDRESS	SIGNATURE
NAME	ADDRESS	SIGNATURE

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Signature	Date	Social Security #
-----------	------	-------------------

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# INTERNATIONAL MEMBERSHIP IN THE NORTH AMERICAN SKULL BASE SOCIETY

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**T**he North American Skull Base Society (NASBS), founded in 1989, is a professional medical society that facilitates communication worldwide between individuals pursuing clinical and research excellence in skull base surgery. The purposes of the Society include the following:

- To promote the public welfare through the advancement of skull base surgery and related sciences.
- To disseminate information about the anatomy physiology and clinical management of diseases involving the skull base.
- To promote education and basic and clinical research relating to diseases of the skull base.
- To promote mutual fellowship and cooperation among various scientific disciplines and organizations.
- To support, coordinate, and enhance efforts to generate scientific information useful to specialists in the care of diseases of the skull base.

## WHO IS ELIGIBLE?

Individuals with backgrounds in neurosurgery, otolaryngology, head & neck surgery, radiology, neuroradiology, otology, neurotology, plastic & reconstructive surgery, and others interested in skull base diseases are welcome to apply.

## WHAT ARE THE BENEFITS?

### **Scientific Journal**

Members will receive the official journal of the society, Skull Base Surgery, a quarterly publication that contains peer reviewed original articles, review articles, and position papers. It will also present news and information on an international scope to keep members aware of recent and upcoming events, activities, and evolving developments in skull base surgery.

### **Continuing Medical Education**

Members will receive listings of continuing medical educational opportunities in skull base surgery, as well as scientific courses sponsored by NASBS and will receive reduced registration fees for national scientific meetings.

### **Society Newsletter**

Members will receive copies of the annual newsletter of the Society. The newsletter includes a report from the Society President, information updates on the Society, announcements and information on upcoming events, and other news as appropriate.

## WHAT DOES IT COST TO JOIN?

There is a \$100.00 processing fee which is sent in with your Membership Application Form. Upon acceptance to the NASBS you will be asked if you want to receive the Scientific Journal (a quarterly publication), if so the annual dues will be \$275.00. If you do not care to receive the Journal, your dues will be \$100.00.

## HOW DO I APPLY?

Please fill out the Membership Application Form on the reverse side. Be sure to have signatures of recommendation from two active members of any International Society. Include your \$100.00 processing payment with your application. MAIL: NASBS, 12100 Sunset Hills Road, Suite 130, Reston, VA 20190 or FAX: 703-435-4390.

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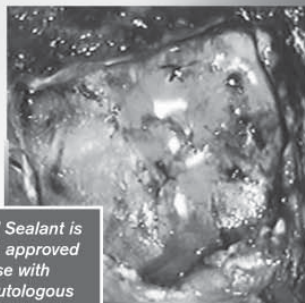
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