NORTH AMERICAN SKULL BASE SOCIETY

26th ANNUAL MEETING

“Innovation & Creativity in Skull Base Surgery”

February 12-14, 2016, Fairmont Scottsdale Princess, Scottsdale, Arizona
Pre-Meeting Course: February 10-11, 2016, Mayo Clinic, Scottsdale, Arizona

PRESIDENT: Carl Snyderman, MD, MBA
PROGRAM CHAIR: James K. Liu, MD and Allan D. Vescan, MD, FSRC

SCIENTIFIC PROGRAM COMMITTEE: Carl Snyderman, MD, MBA, President; Jacques Morcos, MD, FRCS, President Elect; Ian Witterick, MD, MSc, FSRC, Vice President; James Evans, MD, Secretary; Ricardo Carrau, MD, Treasurer; James K. Liu, MD, Program Co-Chair; Allan D. Vescan, MD, FSRC, Program Co-Chair; Mustafá Baskaya, MD; Robert Cueva, MD; Jean Anderson Eloy, MD; Rick Friedman, MD, PhD; Paul A. Gardner, MD; Peter Gooderham, MD; Arif Janjua, MD; Marc S. Schwartz, MD; S. Tonya Stefko, MD; Eric W. Wang, MD; A. Samy Youssef, MD, PhD; Gelareh Zadeh, MD, PhD; and Adam Zanation, MD

PRE-MEETING COURSE CHAIRS: Bernard Bendok, MD and Devyani Lal, MD
Message from the President

Dear Colleagues:

The 26th Annual Meeting of the North American Skull Base Society is rapidly approaching. This year’s meeting will be held February 12-14, 2016 in Scottsdale, Arizona at the luxurious Fairmont Princess Resort. Scottsdale is always a welcomed venue during the cold winter months and offers many recreational and sightseeing opportunities over the extended holiday weekend.

The pre-meeting practical course is organized by Devyani Lal and Bernard Bendok from the Mayo Clinic in Scottsdale and will be held at the nearby Mayo Clinic Building and state-of-the-art Center for Procedural Innovation. This year’s course has something for everyone and will offer two tracks for participation (prosection/dissection and prosection/surgical simulation). The prosection/dissection track will address the optimal surgical approach and will contrast transcranial and endoscopic approaches. For the first time, there will be myriad opportunities to gain hands-on experience with surgical tools and products using surgical simulation exercises in the prosection/surgical simulation track. Additionally, the lectures and prosections will be offered as a webcast to an international audience.

The theme of this year’s meeting is, “Innovation & Creativity in Skull Base Surgery.” Surgical innovation is driven by technological advancement and the creativity of the surgeon. The Program Committee, chaired by James Liu (Rutgers) and Allan Vescan (University of Toronto) has worked hard to develop a program that offers innovative content in an innovative format. The program will include Master Surgeon classes highlighting the surgical techniques of master surgeons, expert panel sessions integrated with proffered papers, fast-paced PechaKucha sessions, Brainstorming sessions, Video Coaching, and other surprises. We anticipate a very competitive field for the best manuscript by a fellow, resident or medical student. The top three winners will be presented at a plenary session.

In keeping with the theme of this year’s meeting, we have three innovative and exciting keynote speakers that demonstrate the importance of creative thinking in addressing different types of challenges: solving social problems (Bill Strickland; CEO, social architect, community leader, visionary; author of Make the Impossible Possible), the conquest of extreme environments (Alison Levine; completed Adventure Grand Slam; author of On The Edge: The Art of High-Impact Leadership), and the future of robotic technology (Eric Meyhofer, leader of Uber's Advanced Technologies Center). Each speaker will provide a unique perspective on the importance of teamwork and problem-solving in challenging situations.

We are honored to have faculty delegations from the European Skull Base Society (President: Robert Behr from Germany) and the World Federation of Skull Base Societies (President: Kenji Ohata from Japan) participating in the program. There will also be joint sessions with the American Rhinologic Society (President: Peter Hwang).

Working behind the scenes, the NASBS committees and several task forces are addressing research priorities, billing and coding questions, and working hard to increase value for NASBS members. The Membership Committee (chaired by James Evans) continues to add new members to our ranks and maintain the diversity of our membership. The Coding & Billing Task Force (led by Adam Folbe) is working in conjunction with Zupko & Associates to develop NASBS guidelines for proper billing and coding of endoscopic procedures. The History Committee will utilize the Annual Meeting to capture an oral history of skull base surgery from early pioneers and past presidents of the society.

In recognition of the global community of skull base surgery, we will start the Annual Meeting with a social event for international attendees on Thursday evening. The Welcome Reception for all attendees will be on Friday evening with a special reception held on Saturday for all new members. The social event on Saturday evening will highlight the local culture of the southwest so bring your cowboy (or cowgirl) attire. After the meeting, we encourage you to take some extra time to explore the area around Scottsdale, play golf or just relax poolside. And don’t forget your sweethearts on Valentine’s Day!

Carl Snyderman, MD, MBA
President, North American Skull Base Society
General Information

REGISTRATION HOURS

<table>
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<tr>
<th>Date</th>
<th>Hours</th>
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<tr>
<td>Thursday, February 11, 2016</td>
<td>2:00 pm – 7:00 pm</td>
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<td>Friday, February 12, 2016</td>
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<td>Saturday, February 13, 2016</td>
<td>6:00 am – 7:00 pm</td>
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<td>Sunday, February 14, 2016</td>
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EXHIBIT HALL/POSTER HOURS

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<th>Date</th>
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<tr>
<td>Friday, February 12, 2016</td>
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<td>Break in Exhibit Hall</td>
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<td>Business Lunch for Members only</td>
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<td>Lunch for Non-Members in Exhibit Hall</td>
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<td>Refreshment Break in Exhibit Hall</td>
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<td>Welcome Reception in Exhibit Hall</td>
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<td>Saturday, February 13, 2016</td>
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<td>Refreshment Break in Exhibit Hall</td>
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Times are subject to change.
General/CME Information

ANNUAL MEETING OBJECTIVES
At the conclusion of this activity, participants should be able to:

• Understand and explain most recent recommendations for management of skull base pathology.
• Describe recent advances in instrumentation and technology in skull base surgery.
• Gain knowledge in challenging skull base pathology from experienced leaders in the field.
• Collaborate in multidisciplinary working groups to identify state-of-the-art management for select skull base pathology.
• Gain knowledge on optimal surgical technique through video analysis and expert critique of intraoperative videos.
• Establish concise statements on management of complex skull base pathology through review of existing medical literature.

WHO SHOULD ATTEND
The NASBS meeting is open to NASBS members and non-members.

TARGET AUDIENCE
• Otolaryngologists, head and neck surgeons, neurosurgeons, reconstructive surgeons, radiation oncologists, radiologists, medical oncologists, physical rehabilitation physicians, ophthalmologists, neurologists, maxillofacial surgeons, maxillofacial prosthodontists and endocrinologists.
• Targeted allied health professionals include physical therapists, oncology nurses, oral health specialists, occupational therapists, speech and language pathologists, optometrists and psychologists.

CREDIT STATEMENT
CME Credit will be provided for this activity.

WHY JOIN NASBS?
Membership is based on an interest in skull base surgery and related sciences. Individuals with backgrounds in neurosurgery, otolaryngology-head and neck surgery, neuroradiology, otology, neurotology, plastic and reconstructive surgery, and others interested in skull base diseases are welcome to apply.

MEMBERSHIP BENEFITS
• Scientific Journal: Members will receive the official journal of the society, The Journal of Neurological Surgery Part B, a bimonthly publication that contains peer reviewed original articles, review articles, and position papers. It also presents 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 education opportunities in skull base surgery, as well as scientific courses sponsored by the NASBS and will receive reduced registration fees for national scientific meetings.
• Membership Directory: Online access to all members contact information.
• NASBS Website Access: Members will have access to Member-Only discussion areas on the Society’s website.

Please visit www.nasbs.org/membership for more information or email membership@nasbs.org.
Meeting Leadership

NASBS SCIENTIFIC PROGRAM COMMITTEE

Carl Snyderman, MD, MBA, President
James K. Liu, MD, Scientific Program Co-Chair
Allan D. Vescan, MD, FSRC, Scientific Program Co-Chair
Bernard Bendok, MD, Pre-Meeting Course Co-Chair
Devyani Lal, MD, Pre-Meeting Course Co-Chair
Mustafa Baskaya, MD
Robert Cueva, MD
Jean Anderson Eloy, MD
Rick Friedman, MD, PhD
Paul A. Gardner, MD
Peter Gooderham, MD
Arif Janjua, MD
Marc S. Schwartz, MD
S. Tonya Stefko, MD
Eric W. Wang, MD
A. Samy Youssef, MD, PhD
Gelareh Zadeh, MD, PhD
Adam Zanation, MD

MEETING LEADERSHIP

NASBS Executive Committee

Carl Snyderman, MD, MBA, President – Pittsburgh, PA
Jacques Morcos, MD, President Elect – Miami, FL
Ian Witterick, MD, MSc, FSRC, Vice President – Toronto, ON, Canada
James Evans, MD, Secretary – Philadelphia, PA
Ricardo Carrau, MD, Treasurer – Columbus, OH
Michael Link, MD, Immediate Past President – Rochester, MN
James K. Liu, MD, Scientific Program Co-Chair – Newark, NJ
Allan D. Vescan, MD, FSRC, Scientific Program Co-Chair – Toronto, ON, Canada

Directors at Large

Siviero Agazzi, MD, MBA
Michael Chicoine, MD
Carlos David, MD
Ivan El-Sayed, MD
Steven Frank, MD
Michael Kupferman, MD
Vikram Prabhu, MD
Thomas Roland, MD
Sandeep Samant, MD

Board of Advisors

Carl Heilman, MD
Ehab Hanna, MD
Dennis Kraus, MD
Peter Neligan, MD
Daniel Nuss, MD

REGISTRATION INFORMATION

WAYS TO REGISTER

1. Register online. www.cvent.com/d/drql3
2. Fax completed registration form to 310-437-0585, Attn: NASBS Registration
3. Mail completed registration form to NASBS Registration:
   North American Skull Base Society
   11300 W. Olympic Boulevard,
   Suite 600
   Los Angeles, CA 90064
   Payment in full must accompany registration form.
   Advance registration is through January 24, 2016.
   After January 25, 2016 attendees must register on-site.
   Late registration (after December 28, 2015) and on-site registration will incur an additional charge of $75.00.

SPECIAL SERVICES

The North American Skull Base Society wishes to ensure that no individual with a disability is excluded, denied services, segregated, or otherwise treated differently because of the absence of auxiliary aids and services. If you require auxiliary aids or services, please indicate your needs on the registration form enclosed in this program.

Please direct all questions concerning registration to the Meeting Registrar at 310-424-3326, ext. 128 or registration@nasbs.org.
Pre-Meeting Course

CME Credit will be provided for this activity.

Open and Endoscopic Skull Base Surgery

February 10-11, 2016 • Mayo Clinic, Scottsdale, Arizona

Mayo Clinic Building on the Shea Campus & Collaborative Research Building, Scottsdale, AZ

COURSE DIRECTORS: Devyani Lal, MD & Bernard Bendok, MD, Mayo Clinic, Scottsdale, AZ

The pre-meeting dissection workshop of the 26th Annual NASBS Meeting offers participants with choices between hands-on cadaver dissection sessions, lecture sessions with hands-on exercises and web-based learning. Modules will take participants through open and endoscopic exercises to the central, lateral and posterior skull base.

Additional fees apply. See registration page for pricing.

Featuring Parallel Tracks:

**TRACK 1: Two-Day Hands-On Anatomical Dissection with Lectures**

This is a two-day course taking place February 10-11. Breakfast and Lunch Included.

This track features anatomical hands-on dissections emphasizing open and endoscopic skull base surgery. Attendees will also attend all lectures and prosections on open and endoscopic skull base surgery as well as Case Studies and Tumor Board presentations.

**TRACK 2: Two-Day Surgical Simulation Exercises with Lectures**

This is a two-day course taking place February 10-11. Breakfast and Lunch Included.

This track features hands-on surgical simulation exercises emphasizing open and endoscopic skull base techniques on Set-up and New Technology, Bone and Soft Tissue Dissection, Skull Base Reconstruction, Microvascular and Neural Repair, and Internal Carotid Artery Injury. Attendees will also attend all lectures and prosections on open and endoscopic skull base surgery as well as Case Studies and Tumor Board presentations.

**WEBINAR Live International Webinar**

Can’t attend one of the Pre-Meeting Courses in person? Choose from a one- or two-day live broadcast taking place February 10-11. Viewers will have the opportunity to watch lectures and prosections on open and endoscopic skull base surgery as well as Case Studies and Tumor Board presentations.

Sessions included in this track are noted in the following schedule with the ![WEBINAR](image.png) icon.
# Pre-Meeting Course

## COURSE SCHEDULE

### WEDNESDAY, FEBRUARY 10, 2016

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>7:00 am – 7:45 am</td>
<td>Registration &amp; Breakfast</td>
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<tr>
<td>7:45 am – 8:00 am</td>
<td><strong>Course Overview</strong> – Devyani Lal, MD</td>
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<tr>
<td>8:00 am – 8:30 am</td>
<td><strong>MODULE 1: Sellar/Parasellar/Suprasellar Approaches</strong></td>
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<tr>
<td>8:30 am – 9:30 am</td>
<td>3D Anatomy – Jeffrey Sorenson, MD</td>
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<tr>
<td>8:30 am – 9:30 am</td>
<td><strong>Prosections</strong></td>
<td>Bernard Bendok, MD &amp; Peter Hwang, MD &amp; Vikram Prabhu, MD, Christopher Rassekh, MD</td>
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<td>9:30 am – 10:00 am</td>
<td><strong>Break</strong> (Track 1 Group to Walk to Lab)</td>
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<td>10:00 am – 12:00 pm</td>
<td><strong>TRACK 1: Anatomical Dissection at Lab</strong></td>
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<tr>
<td>12:15 pm – 1:15 pm</td>
<td><strong>Lunch with Case Presentations</strong></td>
<td>Devyani Lal, MD &amp; James Liu, MD</td>
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<td>1:15 pm – 1:45 pm</td>
<td><strong>MODULE 2: Anterior Cranial Base</strong></td>
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<td>1:45 pm – 2:45 pm</td>
<td>3D Anatomy – Jeffrey Sorenson, MD</td>
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<tr>
<td>2:45 pm – 3:00 pm</td>
<td><strong>Break</strong> (Track 1 Group to Walk to Lab)</td>
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<tr>
<td>3:00 pm – 5:00 pm</td>
<td><strong>TRACK 1: Anatomical Dissection at Lab</strong></td>
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<tr>
<td>5:00 pm – 5:30 pm</td>
<td><strong>Course Review</strong> – Devyani Lal, MD</td>
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<tr>
<td>5:30 pm</td>
<td><strong>Wine &amp; Cheese Reception</strong></td>
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Topics and faculty subject to change

Register online at www.nasbs.org
# Pre-Meeting Course

**THURSDAY, FEBRUARY 11, 2016**

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>7:00 am – 8:00 am</td>
<td>Registration &amp; Breakfast</td>
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**MODULE 3: Middle Cranial Fossa, Infratemporal Skull Base**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:00 am – 8:30 am</td>
<td>3D Anatomy – Jeffrey Sorenson, MD</td>
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<tr>
<td>8:30 am – 9:30 am</td>
<td>Prosections &lt;br&gt; 8:30 am: Endoscopic Endonasal Transpterygoid/Transmaxillary Approach to the Middle Cranial Fossa – Paul Gardner, MD &amp; Carl Snyderman, MD, MBA &lt;br&gt; 9:00 am: Lateral Subtemporal Approach to the Middle Cranial Fossa – Amol Bhatki, MD &amp; James Chandler, MD</td>
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<tr>
<td>9:30 am – 10:00 am</td>
<td>Break (Track 1 Group to Walk to Lab)</td>
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<tr>
<td>10:00 am – 12:00 pm</td>
<td>TRACK 1: Anatomical Dissection at Lab &lt;br&gt; TRACK 2: Lectures &amp; Hands-on Exercises 3 &lt;br&gt; <strong>Skull Base Defect Reconstruction</strong> &lt;br&gt; 10:00 am: Lecture Reconstrutive Considerations in Skull Base Surgery – Dan Fliss, MD &lt;br&gt; 10:30 am: Lecture Tools and Techniques in Anterior Skull Base Reconstruction – Ben Bleier, MD &lt;br&gt; 11:00 am: Hands-On Exercises</td>
</tr>
<tr>
<td>12:15 pm – 1:15 pm</td>
<td>Lunch with Tumor Board Conference &lt;br&gt; MODERATORS: Joseph Hoxworth, MD &amp; Devyani Lal, MD &lt;br&gt; SPEAKERS: Siviero Agazzi, MD, MBA; Paul Gardner, MD; Erin O’Brien, MD; Mark Wiet, MD</td>
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**MODULE 4: Transclival Approaches**

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<tr>
<td>1:15 pm – 1:45 pm</td>
<td>3D Anatomy – Jeffrey Sorenson, MD</td>
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<tr>
<td>1:45 pm – 2:45 pm</td>
<td>Prosections &lt;br&gt; 1:45 pm: Transpetrosal/Far Lateral Approach to the Clivus – Sam Marzo, MD &amp; Raj Shrivastava, MD &lt;br&gt; 2:15 pm: Endoscopic Endonasal Transclival Approach – Amir Dehdashti, MD &amp; Adam Zanation, MD</td>
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<td>2:45 pm – 3:00 pm</td>
<td>Break (Track 1 Group to Walk to Lab)</td>
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<tr>
<td>3:00 pm – 5:00 pm</td>
<td>TRACK 1: Anatomical Dissection at Lab &lt;br&gt; TRACK 2: Lectures &amp; Hands-On Exercises 4 &lt;br&gt; <strong>Handling Complications in Skull Base Surgery</strong> &lt;br&gt; 3:00 pm: Lecture Complications in Skull Base Surgery – Adam Folbe, MD &lt;br&gt; 3:30 pm: Lecture Handling Internal Carotid Artery Injury – Paul Gardner, MD &lt;br&gt; 4:00 pm: Hands-On Exercises</td>
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<tr>
<td>5:00 pm – 5:30 pm</td>
<td>Course Review – Devyani Lal, MD</td>
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<td>5:30 pm</td>
<td>Adjournment</td>
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Topics and faculty subject to change
FRIDAY, FEBRUARY 12, 2016

6:45 am – 7:00 am  Continental Breakfast
7:00 am – 7:45 am  MASTER SURGEON SESSIONS

Master Surgeon 1: Approaches to the Cavernous Sinus
MODERATOR: Juan Fernandez-Miranda, MD
SPEAKERS: William Couldwell, MD, PhD; Ali Krisht, MD; Harry van Loveren, MD

Master Surgeon 2: Jugular Foramen Tumors and Paragangliomas
MODERATOR: Michael Gleeson, MD
SPEAKERS: James Netterville, MD; Rupert Obholzer, MD; Jon Robertson, MD

Master Surgeon 3: Skull Base Meningiomas
MODERATOR: Michael McDermott, MD
SPEAKERS: Gerardo Guinto, MD & Chandranath Sen, MD

Master Surgeon 4: Endoscopic Skull Base Surgery – Beyond the Pituitary and Extended Approaches
MODERATOR: Adam Zanation, MD
SPEAKERS: Vijay Anand, MD; Paul Gardner, MD; Daniel Prevedello, MD

8:00 am – 8:30 am  Introductions and Meeting Overview
Carl Snyderman, MD, MBA

8:30 am – 9:30 am  Keynote Lecture
Bill Strickland

9:30 am – 10:00 am  Refreshment Break in Exhibit Hall

10:00 am – 11:00 am  Proffered Paper Sessions 1-4

11:00 am – 12:00 pm  PANEL DISCUSSIONS

Panel Discussion 1: Controversies in the Management of Sinonasal Malignancy
MODERATOR: Eric Wang, MD
SPEAKERS: Roy Casiano, MD; Ziv Gil, MD, PhD; James Palmer, MD

Panel Discussion 2: Treatment Options for Chordomas
MODERATOR: Zachary Litvack, MD
SPEAKERS: Sebastien Froelich, MD; Norbert Liebsch, MD; Laligam Sekhar, MD

Panel Discussion 3: Optimal Treatment of Acoustic Neuroma
MODERATOR: Sam Marzo, MD
SPEAKERS: James Boggan, MD; Pamela Roehm, MD, PhD; Marc S. Schwartz, MD

Panel Discussion 4: Management of Vascular Issues in Skull Base Surgery
MODERATOR: Amir Dehdashti, MD
SPEAKERS: Mustafa Baskaya, MD; Hiroyuki Kinouchai, MD, PhD; Harry van Loveren, MD

12:00 pm – 1:00 pm  Lunch in Exhibit Hall for Non Members
Business Lunch for Members in Main Ballroom

Schedule subject to change

SCOTTSDALE INFORMATION
AIRPORT INFORMATION
The Fairmont Scottsdale Princess is a 30 minute drive from Phoenix Sky Harbor International Airport.

HOTEL INFORMATION
Fairmont Scottsdale Princess
7575 East Princess Drive
Scottsdale, Arizona 85255

How to Book a Hotel Reservation
Hotel Reservations can now be made for the NASBS 26th Annual Meeting at: https://resweb.passkey.com/go/nasbs2016

RESERVATIONS: 1-800-344-4758
Be sure to mention the “North American Skull Base Society” when making reservations to secure the group rate.

NASBS has secured the following group rates at the Fairmont Scottsdale Princess:
Standard Single/Double at $289.00

Be sure to make your reservation by January 11, 2016.

Housing Registration Deadline is: January 11, 2016

Register online at www.nasbs.org
### Schedule-at-a-Glance

**FRIDAY, FEBRUARY 12, 2016  continued**

1:00 pm – 2:00 pm  **PECHAKUCHA SESSIONS**

- **PechaKucha 1: Innovation in Education**  
  **MODERATORS:** Jeffrey Sorenson, MD & Allan Vescan, MD, FSRC

- **PechaKucha 2: Operating Room of the Future**  
  **MODERATORS:** Aaron Cohen-Gadol, MD & Raj Sindwani, MD

- **PechaKucha 3: Parapharyngeal Space Tumors**  
  **MODERATORS:** Emiro Caicedo-Granados, MD & Guy Petruzzelli, MD, PhD, MBA

- **PechaKucha 4: Reconstruct This!**  
  **MODERATOR:** Marc Rosen, MD

2:00 pm – 3:00 pm  **PANEL DISCUSSIONS**

- **Panel Discussion 5: Debate – Endoscopic vs. Transcranial Approaches for Meningiomas**  
  **MODERATOR:** James Evans, MD  
  **SPEAKERS:** Fred Gentili, MD, MSc & James Liu, MD

- **Panel Discussion 6: Tumor Board - Pediatric Skull Base Tumors**  
  **MODERATOR:** Elizabeth Tyler-Kabara, MD, PhD  
  **SPEAKERS:** Jeffrey Rastatter, MD; Jay Storm, MD; Scott Wait, MD

- **Panel Discussion 7: Cranial Nerve Injury: Prevention and Management**  
  **MODERATOR:** Michael Link, MD  
  **SPEAKERS:** Samuel Barnett, MD; Richard Hayden, MD, MSc; James Netterville, MD

- **Panel Discussion 8: Orbital Tumors and Approaches**  
  **MODERATOR:** S. Tonya Stefiko, MD  
  **SPEAKERS:** Khaled Aziz, MD; Ben Bleier, MD; Kris Moe, MD

3:00 pm – 3:30 pm  **Refreshment Break in Exhibit Hall**

3:30 pm – 5:00 pm  **Proffered Paper Sessions 5-8**

5:00 pm – 5:45 pm  **Brainstorming Session 1 – Design of Collaborative Trials**  
                   **Coaching Session 1 – Sellar/Parasellar Tumors**  
                   **Media Training for Skull Base Surgeons – Nancy Snyderman, MD**

6:00 pm – 7:30 pm  **Welcome Reception in Exhibit Hall**

7:45 pm – 10:00 pm  **Past President’s Dinner (Invitation Only)**

**SATURDAY, FEBRUARY 13, 2016**

6:45 am – 7:00 am  **Breakfast**

7:00 am – 7:45 am  **MASTER SURGEON SESSIONS**

- **Master Surgeon 5: Nuances of Acoustic Tumor: Achieving Best Facial Nerve and Hearing Outcomes**  
  **MODERATOR:** Siviero Agazzi, MD, MBA  
  **SPEAKERS:** Rick Friedman, MD, PhD; John Golfinos, MD; Michihiro Kohno, MD

- **Master Surgeon 6: Transfacial Surgery for Skull Base Cancers: What is the Current Role?**  
  **MODERATOR:** Ehab Hanna, MD  
  **SPEAKERS:** Dan Fliss, MD; Patrick Gullane, CM, MB; Dennis Kraus, MD

- **Master Surgeon 7: Skull Base Surgery for Complex Intracranial Aneurysms**  
  **MODERATOR:** Bernard Bendok, MD  
  **SPEAKERS:** Carlos David, MD; Jacques Morcos, MD; Anil Nanda, MD

- **Master Surgeon 8: Nuances of Endoscopic Pituitary Tumor Removal – Achieving Best Endocrinological, Oncological and Visual Outcomes**  
  **MODERATOR:** Andrew Little, MD  
  **SPEAKERS:** Marvin Bergsneider, MD; John Jane, MD; Daniel Kelly, MD

8:00 am – 8:30 am  **Best Papers & Posters Presentations**

8:30 am – 9:30 am  **Keynote Lecture: On the Edge: The Art of High-Impact Leadership**  
                   – Alison Levine

9:30 am – 10:00 am  **Refreshment Break in Exhibit Hall**

10:00 am – 11:00 am  **Proffered Paper Sessions 9-12**

11:00 am – 12:00 pm  **PANEL DISCUSSIONS**

- **Panel Discussion 9: When GTR is Not the Goal**  
  **MODERATOR:** Philip Theodosopoulos, MD  
  **SPEAKERS:** Fred Gentili, MD, MSc; Carl Heilman, MD; Jacques Morcos, MD

- **Panel Discussion 10: Sellar/Parasellar Tumors**  
  **MODERATOR:** Amir Dehdashti, MD  
  **SPEAKERS:** Manish Aghi, MD, PhD; Norberto Andaluz, MD; Gelareh Zadeh, MD, PhD

- **Panel Discussion 11: Centers of Excellence: Is It Time?**  
  **MODERATOR:** Ian Witterick, MD, MSc, FSRC  
  **SPEAKERS:** Daniel Kelly, MD; Anil Nanda, MD; Daniel Nuss, MD

- **Panel Discussion 12: Intracranial Hypertension**  
  **MODERATOR:** Bradford Woodworth, MD  
  **SPEAKERS:** Naresh Patel, MD; Yu Lan Mary Ying, MD; Jenny Yu, MD

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Register online at [www.nasbs.org](http://www.nasbs.org)
### SATURDAY, FEBRUARY 13, 2016  
**continued**

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>12:00 pm – 1:00 pm</td>
<td>Lunch &amp; Poster Viewing in Exhibit Hall</td>
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<tr>
<td>1:00 pm – 2:00 pm</td>
<td><strong>PECHAKUCHA SESSIONS</strong></td>
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<tr>
<td><strong>PechaKucha 5:</strong> Quality Improvement Conference</td>
<td>MODERATORS: Neil Martin, MD &amp; Erin McKean, MD</td>
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<tr>
<td><strong>PechaKucha 6:</strong> Challenges in Skull Base Surgery</td>
<td>MODERATORS: Robert Behr, MD &amp; Francois Lavigne, MD</td>
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<tr>
<td><strong>PechaKucha 7:</strong> Hemostasis: Strategies &amp; Techniques</td>
<td>MODERATORS: Madison Michael, MD &amp; Peter Hwang, MD</td>
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<tr>
<td><strong>PechaKucha 8:</strong> I Wish I Hadn’t Done That! Complications &amp; Bad Outcomes</td>
<td>MODERATORS: Gerald Lemole Jr, MD &amp; Daniel Nuss, MD</td>
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<tr>
<td>2:00 pm – 3:00 pm</td>
<td><strong>PANEL DISCUSSIONS</strong></td>
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<tr>
<td><strong>Panel Discussion 13:</strong> Complications of Radiation Therapy</td>
<td>MODERATOR: Peter Gooderham, MD</td>
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<tr>
<td>SPEAKERS: Sameer Keole, MD; Michael McDermott, MD; Vikram Prabhu, MD</td>
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<tr>
<td><strong>Panel Discussion 14:</strong> Tumor Board: Temporal Bone</td>
<td>MODERATOR: Tom Roland, MD</td>
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<td>SPEAKERS: Mario Ammirati, MD; Giovanni Danesi, MD; John Leonetti, MD</td>
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<tr>
<td><strong>Panel Discussion 15:</strong> Controversies in the Management of Carniopharyngioma</td>
<td>MODERATOR: Maria Koutourousiou, MD</td>
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<td>SPEAKERS: Fred Barker, MD; Fred Boop, MD; Kenji Ohata, MD</td>
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<tr>
<td><strong>Panel Discussion 16:</strong> Controversies in Petroclival Tumors</td>
<td>MODERATOR: Bharat Guthikonda, MD</td>
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<td>SPEAKERS: Eiji Kohmura, MD, PhD; Diego Mendez-Rosito, MD; A. Samy Youssef, MD</td>
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<tr>
<td>3:00 pm – 3:30 pm</td>
<td><strong>Refreshment Break in Exhibit Hall</strong></td>
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<tr>
<td>3:30 pm – 5:00 pm</td>
<td><strong>Proffered Paper Sessions 13-16</strong></td>
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<tr>
<td>5:00 pm – 5:45 pm</td>
<td><strong>Brainstorming Session 2 – Choosing the Right Metrics (Metrics for Assessing Value in Skull Base Surgery)</strong></td>
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<tr>
<td><strong>Coaching Session 2 – Posterior Fossa Tumors (Acoustic Neuroma, MD, Cerebellopontine Angle, MD, Petroclival)</strong></td>
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<tr>
<td>6:00 pm – 7:00 pm</td>
<td><strong>New Member Reception with Leadership</strong></td>
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<tr>
<td>7:00 pm – 9:30 pm</td>
<td><strong>NASBS Western at Copper Canyon</strong></td>
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### SUNDAY, FEBRUARY 14, 2016

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>6:45 am – 7:00 am</td>
<td>Continental Breakfast</td>
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<tr>
<td>7:00 am – 7:45 am</td>
<td>Committee Meetings</td>
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<tr>
<td>7:45 am – 8:00 am</td>
<td>Transition Break</td>
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<tr>
<td>8:00 am – 9:00 am</td>
<td><strong>Proffered Paper Sessions 17-20</strong></td>
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<tr>
<td>9:00 am – 10:00 am</td>
<td><strong>PANEL DISCUSSIONS</strong></td>
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<tr>
<td><strong>Panel Discussion 17:</strong> Systematic Review of Sinonasal Malignancy/Best Treatment/Pre-Operative Chemo/Radiation</td>
<td>MODERATOR: Jean Anderson Eloy, MD</td>
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<tr>
<td>SPEAKERS: Ricardo Carrau, MD; Peter Hwang, MD; Derrick Lin, MD</td>
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<tr>
<td><strong>Panel Discussion 18:</strong> Tumor Board: Clival Neoplasms</td>
<td>MODERATOR: Paul Gardner, MD</td>
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<td>SPEAKERS: Robert Behr, MD; Ivan El-Sayed, MD; TBD</td>
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<tr>
<td><strong>Panel Discussion 19:</strong> Skull Base Economics</td>
<td>MODERATOR: Adam Folbe, MD</td>
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<td>SPEAKERS: John Golfinos, MD; Kim Pollock; Carl Snyderman, MD</td>
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<tr>
<td><strong>Panel Discussion 20:</strong> Controversies in the Management of Trigeminal Schwannomas</td>
<td>MODERATOR: Michael Chicoine, MD</td>
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<td>SPEAKERS: Juan Barges-Coll, MD &amp; Masahiro Toda, MD, PhD</td>
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<tr>
<td>10:00 am – 10:30 am</td>
<td><strong>Refreshment Break in Exhibit Hall</strong></td>
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<tr>
<td>10:30 am – 11:15 am</td>
<td><strong>Keynote Lecture: Robotics and Disruption – Eric Meyhofer</strong></td>
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<tr>
<td>11:15 am – 12:15 pm</td>
<td><strong>3D Video Techniques</strong></td>
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<tr>
<td>MODERATOR: Juan Fernandez-Miranda, MD</td>
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<tr>
<td>SPEAKERS: Mustafa Baskaya, MD; William Couldwell, MD; PhD; James Liu, MD</td>
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<tr>
<td>12:25 pm – 12:30 pm</td>
<td><strong>Closing Remarks</strong></td>
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</table>
2016 Registration Form

26th North American Skull Base Society Annual Meeting

February 12-14, 2016
Fairmont Scottsdale Princess
Scottsdale, Arizona

REGISTRANT INFORMATION  Please fill in ALL information for your registration to be processed.

PREFIX FIRST NAME MI LAST NAME DEGREE

EMAIL ADDRESS

INSTITUTION TITLE/DEPARTMENT

ADDRESS

CITY STATE POSTAL CODE COUNTRY

WORK PHONE MOBILE PHONE

SELECT YOUR SPECIALTY

☐ Neurosurgeon  ☐ Otolaryngology  ☐ Rhinology  ☐ Medical Oncology
☐ Head & Neck Surgeon  ☐ Plastic Surgery  ☐ Pathology  ☐ Other: ________________
☐ Otology/Neurotology  ☐ Ophthalmology  ☐ Allied Health Pro  ☐ Radiology
☐ Maxillofacial Surgery  ☐ Radiology  ☐ Radiation Oncology

REGISTRATION FEES  Conference registration includes breakfast, lunch, breaks, Welcome Reception, and Social Event.

☐ Member $625
☐ Non-Member $825
☐ Medical Student $360
☐ Resident $360
☐ Fellow $360
☐ Allied Health Professional $360
☐ Late Fee, if registering after December 28, 2015 $75

SUBTOTAL $ ________________

PRE-MEETING COURSE  See course schedule starting on page 6 of the Advance Program for further descriptions.

☐ Two-Day Hands-On Cadaver Dissection with Lectures – February 10-11, 2016 – Early Bird Rate $1,499
  If registering by December 28, 2015
☐ Two-Day Hands-On Cadaver Dissection with Lectures – February 10-11, 2016 – Regular Rate $1,799
  If registering after December 28, 2015
☐ Two-Day Surgical Simulation Exercises with Lectures – February 10-11, 2016 $750
☐ Two-Day Live International Webcast – February 10-11, 2016 $150
☐ One-Day Live International Webcast – February 10, 2016 $100

SUBTOTAL $ ________________

Register online at www.nasbs.org

TABLE OF CONTENTS  PREVIOUS  NEXT
2016 Registration Form

RSVPs  Please check those events you will be attending.

☐ I will attend the NASBS Business Lunch – February 12, 2016 (Members ONLY)
OR
☐ I will attend Lunch in the Exhibit Hall – February 12, 2016 (Non-Members)
☐ I will attend the NASBS Welcome Reception – February 12, 2016
☐ I will attend Lunch in the Exhibit Hall – February 13, 2016
☐ I will attend the NASBS Western at Copper Canyon – February 13, 2016

GUEST REGISTRATION
Guest registration is necessary for attendance at the Welcome Reception and the NASBS Western Social Event.

FIRST NAME    LAST NAME
EMAIL

☐ Guest Ticket for the NASBS Welcome Reception – February 12, 2016  $75
☐ Guest Ticket for the NASBS Western at Copper Canyon – February 13, 2016  $150

SUBTOTAL $ __________________
TOTAL DUE $ __________________

CANCELLATIONS & REFUNDS: A fee of $75 will be assessed for all conference and pre-course cancellations as applicable through January 24, 2016. Cancellations will not be honored after January 25, 2016 and no refunds will be processed after this date.

PAYMENT INFORMATION

☐ Check: Please make payable to North American Skull Base Society (NASBS)
☐ Credit Card:  ☐ Mastercard  ☐ Visa  ☐ AMEX

NUMBER: _____________________________ CVC II CODE (last 3 digits on back of card): ____________
EXP. DATE: ________________________ SIGNATURE: ________________________

MAIL OR FAX THIS FORM WITH PAYMENT TO:
Meeting Registrar: 11300 W. Olympic Blvd., Suite 600, Los Angeles, CA 90064
PHONE: 310-424-3326, ext. 128  |  FAX: 310-437-0585  |  EMAIL: registration@nasbs.org