2nd Annual Congress of Lateral Skull Base Surgery
Barrow Neurological Institute
Temporal Bone Course

May 10-11, 2019
Phoenix, Arizona

For more information:
www.barrowneuro.org/education/find-a-conference-or-cme-course/
The temporal bone constitutes one of the most anatomically complex locations in the human body. For numerous disorders relevant to neurosurgeons and otolaryngologists, the lateral skull base presents a considerable hurdle when planning surgical approaches. For this reason, a comprehensive knowledge of the complex three dimensional anatomy of this region is vital for surgical residents and fellows in training. The principle aim of the Annual Lateral Skull Base Congress is to provide comprehensive, hands on training for the safe and efficient completion of lateral skull base approaches involving the temporal bone. After a successful inaugural session in May 2018, the second annual congress is being opened to a national audience of senior neurosurgical residents, neurosurgical skull base fellows, and neurotology fellows. Attendees will benefit from a timely lecture series by Barrow experts, world-class cadaveric dissections on preserved whole heads, use of clinical grade operative microscopes, and direct mentorship from board certified skull base surgeons.

Objectives
At the conclusion of this course, participants should be able to:

1) Describe all major anatomical structures of the temporal bone from four perspectives (posterior cranial fossa, middle cranial fossa, lateral surface structures, intra-temporal).

2) Perform lateral skull base surgical approaches and identify key visual-spacial relationships pertinent to the treatment of neoplastic, neurovascular, and infectious disorders.

3) Demonstrate surgical proficiency operating under high powered microscopy within the confines of the temporal bone and in using various otologic micro-instrumentation.

BNI Neurosurgery Research Laboratory
Marian Rochelle Neuroscience Research Center Building

Mark C. Preul, MD,
Director of the Neurosurgery Research Laboratory

The course will take place at the Neurosurgery Research Laboratory of the Barrow Neurological Institute Division of Neurological Surgery which is a world-class education, training, and research facility with a specialization in neurosurgical anatomy. The facility is well-known for exquisite cadaver tissue specimens and features independent surgical stations fully equipped with operating microscopes, suction, irrigation, standard head frames, microsurgical and power instrumentation, 3D surgical projection, high definition flat screens, and fully-trained attendant staff.
General Information

Course Location
Loyal and Edith Davis Neurosurgery Research Laboratory, Barrow Neurological Institute
St. Joseph’s Hospital, 350 West Thomas Road, Phoenix, Arizona 85013

Laboratory Contact Information:
Neurosurgery Research Department: 602-406-3268
Main: 602-406-3000
Fax: 602-406-4153
Email: William.Bichard@DignityHealth.org

Approved Accommodations:
Embassy Suites by Hilton Phoenix Downtown North
10 East Thomas Road, Phoenix, AZ 85012
602-222-1111
3 blocks from the lab.
Hotel shuttle runs between 7:00am – 10:45pm.

Hampton Inn Phoenix-Midtown-Downtown Area
160 W. Catalina Drive, Phoenix, AZ 85013
602-200-0990
Across the street from the lab. Walking distance.
No hotel shuttle service.

Fairfield Inn and Suits Phoenix (Marriott)
2520 North Central Avenue
602-716-9900
0.6 miles from the lab.
Hotel shuttle runs between 6:00am – 10:00pm.

Wyndham Garden Phoenix | Ramada Phoenix
2nd Ave. and Osborn
Wyndhamhotels.com
602-604-4900 Wyndham Garden
602-595-4444 Ramada Phoenix

Taxi Contacts:
AAA Yellow Cab: 602-252-5252
Discount Cab: 602-200-2000
Execucar: 800-410-4444
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>1:00-1:10 PM</td>
<td><strong>Course Introduction and Overview</strong> by Almefty, Stevens</td>
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<tr>
<td>1:10-1:50 PM</td>
<td>Guest Faculty Lecture; topic of choice by Brackmann</td>
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<tr>
<td>1:50-2:10 PM</td>
<td>Didactic: Temporal Bone Anatomy: A Neurosurgeon’s Perspective by Arnau Benet</td>
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<tr>
<td>2:10-2:30 PM</td>
<td>Didactic: Trans-labyrinthine and Other Trans-petrosal Approaches, Part 1 by Porter</td>
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<tr>
<td>2:30-2:50 PM</td>
<td>Transition to Dissection Lab</td>
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<tr>
<td>2:50-5:30 PM</td>
<td>DISSECTION STATIONS; Part 1 (Embalmed whole head, right side)</td>
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<td><strong>Day 1 Dissection Focus</strong></td>
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<td>Trans-labyrinthine Approach (Right Ear) by Mic-Prosection: Brackmann</td>
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<td></td>
<td><strong>End of Day Discussion Panel (15min)</strong></td>
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<td>Surgical/Clinical Pearls (lab classroom, 2nd floor)</td>
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<td>Brackmann, Porter, Sym, Stevens, Almefty, Lawton</td>
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<tr>
<td>6:30 PM</td>
<td>Dinner for Course Participants and Lateral Skull Base Team</td>
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<td>Spouses invited, Location TBD</td>
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<td>7:00-7:30 AM</td>
<td>Breakfast Reception</td>
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<td>7:30-8:10 AM</td>
<td>Didactic: Trans-petrosal Approaches, Part 2 Fisch Approaches</td>
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<tr>
<td>8:10-8:30 AM</td>
<td>Didactic: Trans-petrosal Approaches, Part 3 Trans-otic, Trans-cochlear</td>
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<tr>
<td>8:30-9:00 AM</td>
<td>Didactic: Facial Nerve re-routing, Facial Reanimation Overview</td>
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<td>Small Group Stations, 2nd floor classroom (Simultaneous Lab Set Up)</td>
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<td>9:00-9:15 AM</td>
<td>Brief Session 1: Update, Advances in Lateral Skull Base Training/Simulation</td>
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<td>Skull Base Surgical Simulation, Virtual Reality, Smart Phone Technology and 3D Video</td>
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<tr>
<td>9:15-9:30 AM</td>
<td>Brief Session 2: Advances in Surgical Drills and Ultrasonic Aspirators</td>
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<td>9:30 AM-12:00 PM</td>
<td>DISSECTION STATIONS; Part 2 (Embalmed whole head, right side)</td>
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<tr>
<td></td>
<td>Continue Right Ear Dissection from Prior Trans-lab</td>
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<td>Guest Faculty Pro-section: Facial Reanimation Procedures (cable/jump graft, gracilis flap)</td>
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<td>Dissection goals: Extend prior translab exposure into Fisch Approach, Transotic/Trans-cochlear Approach; Mobilize facial nerve, orientation to techniques in facial reanimation/pro-section</td>
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<td>12:00-12:30 PM</td>
<td>Lunch Break (Simultaneous preparation of whole head left side)</td>
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<td>12:40-1:00 PM</td>
<td>Chairman’s Address: Translating Skill Sets, Neurovascular Surgery to LSB</td>
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<tr>
<td>1:00-1:20 PM</td>
<td>Didactic: Minimally Invasive Technique in Lateral Skull Base Surgery</td>
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<tr>
<td>1:20-1:40 PM</td>
<td>Didactic: MCF Approach, Kawase’s Space, Combined Petrosal Approach</td>
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<tr>
<td>1:40-2:00 PM</td>
<td>Transition to Dissection Lab</td>
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<tr>
<td>2:00-5:00 PM</td>
<td>INDIVIDUAL DISSECTION STATIONS; Part 3 Embalmed whole head; left side</td>
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<tr>
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<td>Begin Left Ear Dissection</td>
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<td>Pro-section Station</td>
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<tr>
<td>2:30PM</td>
<td>MCF Approach with Anterior Extended Petrousectomy</td>
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<tr>
<td>3:30-5PM</td>
<td>Combined Petrosal Approach</td>
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<tr>
<td>5:00-5:15 PM</td>
<td>Final Words and Adjournment</td>
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Course Faculty

Course Directors

Kaith Almefty, MD
Neurosurgery
Assistant Professor,
Barrow Neurological Institute

Shawn Stevens, MD
Neurosurgery
The Arizona Ear Institute
Barrow Neurological Institute

Guest Faculty

Derald Brackmann, MD
House Ear Institute | Los Angeles, CA

Andy Blount, MD
Facial Plastic Surgery and Reanimation
Dignity Health | Phoenix, AZ

Peter Wu, MD
Facial Plastic Surgery and Reanimation
Dignity Health | Phoenix, AZ

Lab Director

Mark Preul, MD
Newsome Family Endowed Chair of Neurosurgery Research
Director, Neurosurgery Research Division of Neurological Surgery
Barrow Neurological Institute | Phoenix, Arizona

Course Coordinator

William Bichard
Clinical Coordinator
Barrow Neurological Institute | Phoenix, Arizona

Faculty

Michael Lawton, MD
Chairman and CEO
Barrow Neurological Institute

Randall Porter, MD
Neurosurgery
Barrow Neurological Institute

Kris Smith, MD
Neurosurgery
Barrow Neurological Institute

Mark Syms, MD
Neurotology and Skull Base Surgery
Arizona Hearing Center
Phoenix, AZ

Mark Whitaker, MD
Neurotology and Skull Base Surgery
Arizona Otolaryngology Consultants

Arnau Benet, MD
Resident
Barrow Neurological Institute

Emeritus Faculty

Robert Spetzler, MD
Neurosurgery
Barrow Neurological Institute

C. Phil Daspit, MD
Neurotology and Skull Base Surgery
(Retired)
Arizona Otolaryngology Consultants

For more information, e-mail cme@barrowneuro.org or call (602) 406-3067.
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Fellows / Residents — $200.00

REGISTER NOW

For more information, please contact the Barrow Continuing Medical Education Office at CME@BarrowNeuro.org or 602-406-3067.

Refunds: To insure adequate spaces and planning for the course, no refunds are given for canceled registrations.
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Neurosurgery
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Barrow Neurological Institute

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Shawn Stevens, MD
Neurotology, Otology
The Arizona Ear Institute
Barrow Neurological Institute