

Curriculum Vitae

Name: MICHAEL JOSEPH LAROUERE, M.D.

Office Address: Michigan Ear Institute
27555 Middlebelt Road
Farmington Hills, MI 48334
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(248) 476-7390 Fax

Education: University of Detroit High School 1971-1975
University of Michigan, B.S. 1975-1979
University of Michigan Medical School, M.D. 1979-1983

Surgical Internship: St. Joseph Mercy Hospital 1983-1984
Ann Arbor, Michigan

Residency: University of Michigan Hospitals 1984-1988
Department of Otolaryngology
Ann Arbor, Michigan

Chief Resident: University of Michigan Hospitals 1987-1988
Department of Otolaryngology
Ann Arbor, Michigan

Neurotology Fellowship: University of Michigan Hospitals 1988-1989
Department of Otolaryngology
Ann Arbor, Michigan

Certification: Diplomate of the National Board of Medical Examiners 1984
American Board of Otolaryngology 1988
Michigan Medical License 1988

Michigan Ear Institute: Secretary 1993-present
Director Vestibular Laboratory 1993-present
Director Temporal Bone Lab 1991-present
Course Director - MEI Spring Meeting 1991-present
Co Director-Fellowship Program 1990-1992

University Affiliations: Wayne State University - Clinical Assistant Professor 1994-present

Hospital Affiliations: Providence Hospital 7/89-present
16001 W. Nine Mile Road
Southfield, MI 48075
William Beaumont Hospital 2/92-present
3535 W. Thirteen Mile Road
Royal Oak, MI 48072
St. Mary's Hospital 5/93-present

Oakwood Hospital 1/97-present
18181 Oakwood Blvd.
P.O. Box 2500
Dearborn, MI 48123

Hospital
Committees/Office:

Director, Vestibular Laboratories
Michigan Ear Institute 1989-present
Co-Director, Temporal Bone Laboratory
Providence Hospital, Southfield 1991-present
Director, Michigan Ear Institute
Annual Spring Conference 1991-present
Laser Safety Committee
Providence Hospital 1991-present

Professional
Societies:

American Medical Association 1985-present
American Academy of Otolaryngology-
Head and Neck Surgery 1985-present
Michigan Otolaryngology Society 1985-present
American Academy of Facial Plastic
and Reconstructive Surgery 1988-present
Alpha Omega Alpha Honor Society 1983-present
Galens Medical Society 1979-present
Michigan State Medical Society 1989-present
Oakland County Medical Society 1989-present
North American Skull Base Society 1989-present
William F. House Society 1990-present
Prosper Meniere Society 1990-present
American Society of Evoked
Potential Monitoring 1991-present
Otosclerosis Study Group-American
Academy of Otolaryngology-HNS 1993-present
International Tinnitus Study Group 1991-present
American Academy of Otolaryngology-HNS
American Neurotology Society 1990-present

Professional Societies-
Offices Held:

Michigan Oto-Laryngological Society 1997-1998
President
Michigan Oto-Laryngological Society-
President Elect 1995-1997
Michigan Otolaryngological Society-
Executive Council 1991-present
Board of Governors AAO-HNS
Michigan Otolaryngological Society
Representative 1990-present
Michigan Otolaryngological Society
Secretary-Treasurer 1992-1995

Committees
Local/National:

Board of Governors-American Academy
of Otolaryngology-Head and Neck
Surgery - Resident Representative 1986-1989
Physician Liaison Committee-
University of Michigan Hospitals 1987-1988
Consult Turnaround Task Force-
University of Michigan Hospitals 1988-1989

Skull Base Study Group-	
American Academy of Otolaryngology-	
Head and Neck Surgery	
International Tinnitus Study Group	1989-present
Oakland County Medical Society-	1990-present
Legislation Committee	
Public Information Committee	
Board of Governors-American Academy	1990-present
of Otolaryngology-Head and Neck	
Surgery-Michigan Otolaryngological	
Society Representative	
Academy of Otolaryngology-Head	
and Neck Surgery	
Laser Committee-Providence Hospital	1991-present
Legislative Representative -	1992-present
Board of Governors -	
Michigan Otolaryngological Society	
Certificate of Added Qualifications-	1993-present
American Neurotology Society	
Vestibular Subcommittee	1996-present
Michigan Oto Society	
Representative to the Michigan State	
Medical Society	1997

Honors:

<u>University of Michigan-undergraduate</u>	
Regents Alumni Scholarship	1975
Henry Ford Research Fellowship	
for Otological Research	1977, 1978
Graduated with High Distinction	1979

<u>University of Michigan Medical School</u>	
Student Research Award-Fellowship	
for Otological Research	1979, 1980
Graduated with Distinction	1983
(Top 10% of Class)	
Alpha Omega Alpha Honor Society	1983

<u>University of Michigan-Dept. of</u>	
<u>Otolaryngology</u>	
Frank A. Lamberson Resident Research	
Award	1986

<u>National</u>	
Midwest Student Research Forum-	
1st Prize	1981
Association for Research in	
Otolaryngology Travel Award	1988

American Board of Otolaryngology	
Certification Examination-	
99th percentile	1988

Academy of Otolaryngology-HNS	
Honor Award	1997

Funded
Research:

Henry Ford Hospital Research	1977, 1979
Fellowship	
University of Michigan Student	1979, 1980

Deafness Research Foundation Grant	1987
\$12,000, co-investigator	
Deafness Research Foundation Grant	1988
\$15,000, co-investigator	
Providence Hospital Foundation Grant	1989
\$16,500, co-investigator	
Electrical Suppression of Tinnitus	1991, 1992
Cochlear Corporation	

Editorial Responsibilities:

Member-Editorial Board, Archives in Otolaryngology	1992-present
Member-Editorial Board, American Journal of Otology	1995-present

Publications:

1. Nuttall AL, LaRouere MJ: Depression of the guinea pig cochlear temperature caused by anesthesia and ventral approach ear surgery. J Acoust Soc Am, 68:489-493, 1980.
2. Nuttall AL, LaRouere MJ, Lawrence M: Acute perilymphatic perfusion of the guinea pig cochlea. Hearing Res 6:207-221, 1982.
3. LaRouere MJ, Drake A, Baker SR, Richter JH, Magielski JE: Evaluation and management of a carcinoma arising in a thyroglossal duct cyst. Amer J Otolaryngol, 8:351-355, 1987.
4. LaRouere MJ, Koopmann CF: Non-organic stridor in children. Intl J Ped Otorhinolaryngol, 14:73-77, 1987.
5. Sillman JS, LaRouere MJ, Nuttall AL, Miller JM: Recent advances in cochlear blood flow measurements. Ann of Otol Rhinol Laryngol, 97:1-7, 1988.
6. Sillman JS, LaRouere MJ, Miller JM, Masta RI, Nuttall AL: Electrically stimulated increases in cochlear blood flow: Frequency and intensity effects. Otolaryngology, Head and Neck Surgery, 100(4):308-315, 1989.
7. Hoffman, HT, LaRouere MJ: A simple bolster technique for skin grafting. Laryngoscope, 99:558-559, 1989.
8. LaRouere MJ, Sillman JS, Nuttall AL, Miller JM: A comparison of laser doppler and intravital microscopy measures of cochlear blood flow. Otolaryngology, Head and Neck Surgery, 101(3):375-384, 1989.
9. Sillman JS, LaRouere MJ, Masta RI, Nuttall AL, Miller JM: Electrically stimulated increases in cochlear blood flow: Evidence of neural mediation. Otolaryngology, Head and Neck Surgery, 101(3):362-274, 1989.
10. Kemink JL, LaRouere MJ, Telian SA, Keleny PA, Hoff JT: Hearing Preservation Following Suboccipital Removal of Acoustic Neuromas. Laryngoscope 100:597-602, 1990.
11. Graham MD, LaRouere MJ, Kartush JM: Jugular Foramen Schwannomas: Diagnosis and Suggestions for Surgical Management. Skull Base Surgery, 1(1):34-38, 1991.
12. LaRouere MJ, Niparko JK, Kemink JL, Telian SA, Gebarski SS: Three Dimensional X Ray Computed Tomography of the Temporal Bone as an Aid to

1990.

13. LaRouere MJ, Coleman G, Telian SA, Kemink JL: Malleus head fixation; Association with pseudohypoparathyroidism. *American Journal of Otolaryngology*, 11(5):354-356, 1990.
14. LaRouere MJ, Zappia J, Telian SA: Ossifying fibroma of the temporal bone; Diagnosis and management. *Otolaryngology Head and Neck Surgery*, 103(3):480-483, 1991.
15. Kartush JM, LaRouere MJ, Graham MD, Bouchard KR, Audet BV: Intra-operative Cranial Nerve Monitoring During Posterior Skull Base Surgery. *Skull Base Surgery*, 1(2):85-92, 1991.
16. Kartush JM, Graham MD, LaRouere MJ: Meatal Decompression Following Acoustic Neuroma Resection: Minimizing Delayed Facial Palsy. *Otolaryngology - Head and Neck Surgery*, 1990.
17. Kartush JM, McGee TM, Graham MD, Kulick KC, LaRouere MJ: Electromagnetic Semi-Implantable Hearing Device: An Update. *Head and Neck Surgery*, 104(1):150, 1991.
18. LaRouere MJ, Sillman JS, Tsai MT, Miller JM, Nuttall AL: The Effect of Pentoxifylline of Cochlear Blood Flow. *Otolaryngology - Head and Neck Surgery*, 1991.
19. Cramer HB, Graham MD, Kartush JM, Cass SP, LaRouere MJ, Wilner HI, Duman RJ: Clinical and Radiological Characteristics of Small Cerebellopontine Angle Tumors. *Otolaryngology - Head and Neck Surgery*. 106(1):87-91, 1992.
20. LaRouere MJ, Zappia J, Graham M: Titration Streptomycin Therapy in Meniere's Disease: Current Concepts. *Amer. Journal of Otolaryngology*, Vol. 14, No. 5, pg. 474-477.
21. Kartush JM, McGee TM, Graham MD, Kulick KC, LaRouere MJ, Heide J: Electromagnetic Hearing Device: Clinical Trials and Comments on Phases I and II. *American Journal of Otolaryngology*, 1993.
22. LaRouere MJ, Lundy LB, Graham MD, Zappia JJ, Wilner HI. Selective Embolization of Glomus Jugulare Tumors. *Skull Base Surgery*, 4(1) 21-25, 1994.
23. LaRouere MJ, Graham MD, Esses B. Facial Nerve Outcome Following Acoustic Tumor Surgery. *American Journal of Otolaryngology*, 1994. Accepted for publication November 1994.
24. LaRouere MJ, Zappia JJ, Graham MD. Titration Streptomycin Therapy in Meniere's Disease: Current Concepts. *American Journal of Otolaryngology*, 1995.
25. Mehall CJ, Wilner HI, LaRouere MJ, Pulsatile Tinnitus Associated With A Laterally Placed Sigmoid Sinus. *American Journal of Neurology* 16:905-907.
26. Sargent E, LaRouere MJ. Carcinoma Metastatic to Both Cerebellopontine Angles Masquerading As Acoustic Neuromas. *Skull Base Surgery*, 5(1) 27-31, January 1995.
27. Liening D, LaRouere MJ. Endolymphatic Sac Decompression for the Relief of Vertigo Associated with Rheumatoid Arthritis. *American Journal of Otolaryngology*, Jan. 1995, Vol 24 (1), 55-59.
28. Mehall CJ, Wilner HI, LaRouere MJ. Pulsatile Tinnitus Associated With A

29. Lundy LB, Graham MD, Kartush JM, LaRouere MJ. Temporal Bone Encephalocele and Cerebrospinal Fluid Leaks. *The American Journal of Otology*. Vol 17(3), 461-469.
30. Kartush JM, LaRouere MJ: Meniere's Disease: Surgical Therapy. *Current Therapy in Otolaryngology-Head and Neck Surgery*, sixth edition, G. Gates (ed.). Mosby Year Book, tentative Dec. 1997.
31. Gianoli G, LaRouere M, Kartush J, Wayman J: Sac-Vein Decompression for Intractable Meniere's Disease: Two Year Treatment Results. *Otolaryngology-Head and Neck Surgery Journal*, tentative Jan. 1998 issue.
32. Liening DA, LaRouere, MJ. Relief of Sensorineural Hearing Loss Due to Rheumatoid Arthritis by Endolymphatic Sac Decompression. *The Journal of Otolaryngology*, Vol 2., 281-283, Nov. 4, 1997.

Book Chapters

1. Graham MD, LaRouere MJ: Recurrent Vertigo. In *Common Problems in Otology*. ed: Britton H. Mosby Year Book, 1990.
2. LaRouere MJ, Kartush JM, Seidman MD, Medical and Surgical Treatment of Vertigo. In *Handbook of Balance Function Testing*. GP Jacobson, CW Newman, JM Kartush (eds.). Mosby Year Book, ch 15, pp.337-357, 1993.
3. Graham MD, LaRouere MJ: Wide Bony Decompression of the Endolymphatic Sac in the Surgical Management of Meniere's Disease. In *Operative Techniques in Otolaryngology - Head and Neck Surgery*. eds: Kemink JL, Tenian SA, 1990.
4. LaRouere MJ, Lundy LB: Anatomy and Physiology of the Facial Nerve. In *Textbook of Neurotology*. eds. Jackler RK, Brackmann DE. Mosby-Year Book, 1992.
5. LaRouere MJ, Graham MD, Kartush JM, Bouchard KR, Daniel PG: Vestibular Compensation in Acoustic Neuroma Patients. Acoustic Neuroma, M. Tos and J. Thomsen (eds.). Kugler Publications, Amsterdam/New York, pp. 913-919, 1992.
6. LaRouere MJ, Kartush JM: Facial Nerve Paralysis. *Otolaryngology-Head and Neck Surgery*, W. Meyerhoff and D. Rise (eds.). W.B. Saunders, ch. 17, 1992.
7. Graham MD, LaRouere MJ: Miscellaneous External Auditory Canal Problems. *Otologic Surgery*, ch. 5 pg 63-68, 1994. W.B. Saunders. D. Brackmann, C. Shelton, M. Arriaga eds.
8. LaRouere MJ: Surgical Treatment of Meniere's Disease. *Otologic Clinics of North America*. In Press

Publications In Preparation:

1. LaRouere MJ, Daniels PG. Vestibular Adaptation Following Labyrinthectomy
2. Lundy L, LaRouere M, Kartush JM, Graham MD. Correlation of Intraoperative Facial Nerve Stimulation with Immediate and Delayed Facial Nerve Function.
3. Antonelli PJ, LaRouere MJ. Vestibular Neuritis and Aseptic Meningitis.
4. LaRouere MJ. Three Dimensional Auditory Tapes: A New Method of Tinnitus Relief

6. Antonelli PJ, LaRouere MJ, Kartush JM. Early Postoperative Hearing Results Following Laser Stapedectomy

Abstracts:

1. LaRouere MJ, Nuttall AL: An examination of pH, oxygen tension, and temperature changes in the guinea pig cochlea using acute perilymphatic perfusion. Clinic Res, 1981.
2. Hawn M, LaRouere MJ, Sillman JS, Nuttall AL: Effect of normovolemic hemodilution of noise-induced cochlear damage in guinea pigs. University of Michigan Research Forum, 10/27/87. Midwest Student Research Forum, 4/88.
3. LaRouere MJ, Sillman JS, Nuttall AL, Miller JM: A comparison of laser Doppler and intravital microscopy measures of cochlear blood flow. Association for Research in Otolaryngology, 2/88.
4. LaRouere MJ, Sillman JS, Nuttall AL, Miller JM: Basic studies of cochlear blood flow: A comparison of vital microscopy and laser Doppler techniques. Nijmegen, The Netherlands. 24th Workshop on Inner Ear Biology, August 30, 1987.
5. LaRouere MJ: Retrosigmoid Approach to the Cerebellopontine Angle: Technical Refinements. Middle Section of the Triologic Society, Tulsa, Oklahoma. January 19, 1990.
6. Graham MG, LaRouere MJ, Lundy LB. Facial Nerve Outcome in Acoustic Tumor Surgery. Acoustic Neuroma Conference. Copenhagen, Denmark, August 29, 1991.
7. LaRouere MJ, Zappia JJ, Wilner HI, Graham MG, Lundy LB. Selective Embolization of Glomus Jugulare Tumors. Middle Section of the Triologic, Cleveland, Ohio, January, 1992.
8. Staller S, Ward N, Koffman R, LaRouere M, Vernon J, Sohlenney A and Dobson C. Electrical Tinnitus Suppression in Normal Hearing and Hearing Impaired Subjects. Colorado Otology/Audiology Conference. Breckenridge, CO February, 1992.
9. Staller S, LaRouere M, Vernon J, Hoffman R, Dobson C, Luetje, C. Electrical Tinnitus Suppression in Normal Hearing and Hearing Impaired Subjects. Innsbruck Cochlear Implant Conference. Innsbruck Austria, March, 1993.
10. Marlan RS, Atherton JM, Lundy LB, Kartush JK, LaRouere MJ. Facial Nerve Decompression for Bell's Palsy. Research Day, Providence Hospital, Southfield, Michigan, April 1, 1995.

Current Research:

1. Hearing and Vertigo Results Following Wide Decompression of the Endolymphatic Sac and Sigmoid Sinus.
2. Vestibular compensation in acoustic neuroma, vestibular nerve section, and labyrinthectomy patients.
3. The effect of electrical stimulation of the cochlea on reducing tinnitus.
4. The effects of 3 dimensional frequency specific tapes on tinnitus reduction.

1. Hawn M, LaRouere MJ, Sillman JS, Nuttall AL: Effect of normovolemic hemodilution on noise-induced cochlear damage in guinea pigs. University of Michigan Research Forum, 10/27/87. Midwest Student Research Forum, 4/88.
2. Acute perilymphatic perfusion of the guinea pig cochlea. Midwest Student Research Forum. Columbia, MO 1981.
3. Measurement of cochlear blood flow with vital microscopy and laser Doppler flowmetry. Frank A. Lamberson Lectureship. University of Michigan, Ann Arbor, MI 1986.
4. Non-organic Stridor in Children. American Society of Pediatric Otolaryngology. Colorado Springs, CO 1987.
5. Laser Doppler and Intravital Microscopy Measurements of Cochlear Blood Flow. Frank A. Lamberson Lectureship. University of Michigan, Ann Arbor, MI 1987.
6. Basic Studies of Cochlear Blood Flow: A Comparison of Vital Microscopy and Laser Doppler Techniques. Nijmegen, The Netherlands. 24th Workshop on Inner Ear Biology, August 30, 1987.
7. A Comparison of Laser Doppler and Intravital Microscopy Measures of Cochlear Blood Flow. Association for Research in Otolaryngology, Clearwater, FL, 2/88
8. Measurement of Cochlear Blood Flow-An Update. Frank A. Lamberson lectureship, University of Michigan, Ann Arbor, MI, 5/88.
9. Evaluation and Management of a Carcinoma Arising in a Thyroglossal Duct Cyst. Michigan Otolaryngological Society. The Homestead, Glen Arbor, MI, 6/88.
10. A Comparison of Laser Doppler and Intravital Microscopy Measures of Cochlear Blood Flow. AAO-HNS, Washington, D.C., 9/88.
11. Electrically Stimulated Increases in Cochlear Blood Flow: II. Evidence of Neural Mediation. AAO-HNS, Washington, D.C., 9/88.
12. Surgical Management of Vertigo. Hershey Medical Center, Penn State University, Hershey, PA, 11/88.
13. Evaluation and Management of Ear Disease. Family Practice Review Course, Towsley Center, University of Michigan, Ann Arbor, MI, 3/89.
14. Hearing Preservation in Acoustic Tumor Surgery. Frank A. Lamberson Lectureship, University of Michigan, Ann Arbor, MI, 5/89.
15. Hearing Preservation in Acoustic Tumor Surgery. Michigan Otolaryngological Society, The Homestead, Glen Arbor, MI 6/89.
16. Tinnitus: Diagnosis and Treatment. Botsford Hospital, Detroit, MI, 7/89.
17. Medical and Surgical Management of Vertigo, Providence Hospital, Southfield, MI, 9/89.
18. Three Dimensional X-Ray Computed Tomography of the Temporal Bone as an Aid to Surgical Planning. AAO-HNS, New Orleans, LA, 9/89.
19. The Effects of Diet Induced Hyperlipidemia on Hearing Function in Guinea

1/12/90.

20. Hearing Preservation Following Suboccipital Removal of Acoustic Neuromas. Middle Section of the Triological Society. Tulsa, OK, 1/19/90.
21. Retrosigmoid Approach to the Cerebellopontine Angle: Technical Refinements. Middle Section of the Triological Society, Tulsa, OK, 1/12/90.
22. Jugular Foramen Schwannomas: Diagnosis and Suggestions for Surgical Management. North American Skull Base Society. Los Angeles, CA, 2/18/90.
23. Evaluation and Management of the Vertiginous Patient. The Otology Group, Nashville, TN, 10/89.
24. Cochlear Implantation. The Otology Group, Nashville, TN, 10/89.
25. Otology - New Options for Old Problems. The Second Annual Great Lakes State Family Practice Review, Southfield, MI, 4/18/90.
26. Vestibular Evaluation in Acoustic Tumor Patients. Michigan Otolaryngological Society, The Homestead, Glen Arbor, MI, 6/90.
27. Semi-Implantable Hearing Aids. Henry Ford Hospital, Detroit, MI, 8/8/90.
28. The Effects of Pentoxifylline on Cochlear Blood Flow. AAO-HNS, San Diego, CA, 9/90
29. Osseointegrated Implants in Otology. Henry Ford Hospital, Detroit, MI, 8/8/90.
30. Tinnitus - Diagnosis and Treatment. Birmingham Chapter of SHHH, 8/10/90.
31. Clinical and Radiologic Characteristics of Small Cerebellopontine Angle Tumors. American Academy of Otolaryngology-Head and Neck Surgery. San Diego, California, 9/12/90.
32. Otologic Medicine. Otolaryngology Review Course. Osler Institute, Lisle, Illinois, 9/13/90.
33. Vestibular Compensation in Acoustic Neuroma Patients. Middle Section of the Triologic Society, Milwaukee, Wisconsin, 1/25/91.
34. Intraoperative Facial Nerve Monitoring. Current Topics in Intraoperative Monitoring Seminar. Dallas, Texas, 2/9/91.
35. Intraoperative Acoustic Nerve Monitoring. Current Topics in Intraoperative Monitoring Seminar. Dallas, Texas, 2/9/91.
36. Advanced Facial Nerve Monitoring. Xomed/Zimmer International Seminar, Chicago, Illinois, 6/91.
37. Advances in Vestibular Testing. Michigan Otolaryngological Society. The Homestead, Glenn Arbor, Michigan, 6/29/91.

- Conference. Copenhagen, Denmark. August 29, 1991.
39. Facial Nerve Outcome in Acoustic Tumor Surgery. Acoustic Neuroma Conference. Copenhagen, Denmark, August 29, 1991.
 40. Selective Embolization of Glomus Jugulare Tumors. Middle Section of Triologic Society, Cleveland, Ohio, January, 1992.
 41. Titration Streptomycin Therapy for Meniere's Disease: Current Concepts. Ninth Shambaugh-Shea Weekend of Otology, Chicago, Illinois, March, 1992.
 42. Diagnosis and Management of Tinnitus. University of Pittsburgh-Masters in Otolaryngology Conference. Snowmass, Colorado, March, 1992.
 43. Tinnitus - Management and Treatment. Providence Hospital, July 1992
 44. Streptomycin Treatment for Bilateral Meniere's Disease and Meniere's Disease in an Only Hearing Ear. Michigan Otolaryngological Society Annual Meeting, Shanty Creek, Bellaire Michigan, July 1992.
 45. Assessment of the Patient with Facial Paralysis. American Academy of Facial Plastic Surgery. Columbus, OH, June 3, 1992
 46. Intraoperative Facial Nerve Monitoring. American Academy of Facial Plastic Surgery. Columbus, OH June 3, 1992.
 47. Surgical Treatment of Facial Nerve Palsy. Grand Rounds, Department of Physical Medicine and Rehabilitation. Sinai Hospital, Detroit, Michigan, July 27, 1992.
 48. Vestibular Testing. Grand Rounds, Department of Otolaryngology, Wayne State University, May 16, 1992
 49. Otolologic Medicine/Diagnosis and Management of Vestibular Disorders. Osler Institute, Lisle, IL, March, 1992.
 50. Electrical Suppression of Tinnitus. Colorado Otology/Audiology Conference, Breckenridge, CO, February 1992.
 51. Lasers in Otolologic Surgery. The New York Eye and Ear Infirmary, December 12-13, 1992.
 52. Diagnosis and Treatment of Facial Nerve Paralysis. Masters in Otolaryngology Meeting - University of Pittsburgh, Steamboat Springs, Colorado, March 1993.
 53. Facial Nerve Outcome in Acoustic Neuroma Surgery. American Neurotology Society Meeting, Los Angeles, California, April 17, 1993.
 54. Facial Nerve Function Utilizing Facial Nerve Monitoring Following Acoustic Neuroma Resection. Michigan Oto-Laryngological Society Annual Meeting Shanty Creek. Bellaire, Michigan. July 9, 1993
 55. Medical and Surgical Treatment of Tinnitus. Henry Ford Hospital Tinnitus Symposium. Dearborn, Michigan. October 16, 1993.
 56. Anatomy and Physiology of the Facial Nerve. Facial Nerve Monitoring Seminar, Providence Hospital. Southfield, Michigan. September 17, 1993.
 57. Facial Reanimation Surgery. Colorado Ear Institute. Denver. Colorado.

58. Medical and Surgical Treatment of Glomus Jugulare Tumors. Michigan Otolaryngological Society Annual Meeting, Bellaire, Michigan, July 10, 1994.
59. Medical Treatment of Bilateral Meniere's Disease. Masters In Otolaryngology. University of Pittsburgh, Breckenridge, CO, March, 1994.
60. Facial Nerve Anatomy and Physiology. The Chicago Otology Group Temporal one Course. Hinsdale, Illinois, June 6, 1994.
61. Advanced Vestibular Function Testing. The Chicago Otology Group. Temporal Bone Course, Hinsdale, Illinois, June 6, 1994.
62. Progressive Facial Palsy Secondary to Isolated Brainstem Demyelination. Middle Section of the Triologic Society, Omaha, Nebraska, January, 1995.
63. Endolymphatic Sac Decompression - A Prospective Study. AAO-HNS 1995 Meeting, New Orleans, LA.
64. Evaluation and Management of Facial Paralysis. Rochester, New York Oto Society Meeting, September 1995.
65. Treatment of Vertigo with Streptomycin. Rochester, New York Oto Society Meeting, September 1995.
66. Advanced Vestibular Testing - University of Rochester, Dept of Otolaryngology. September, 1995.
67. Evaluation of Progressive Facial Paralysis. Michigan Oto Society, Bellaire, Michigan. July 1995
68. Treatment of the Vertiginous Patient. Visiting Professor, University of Buffalo. April 3, 1996
69. Vestibular Testing. Visiting Professor, University of Buffalo. April 3, 1996
70. Treatment of Facial Nerve Paralysis. Michigan Otolaryngological Society Annual Meeting. Boyne Highlands Michigan, June 28, 1996.
71. Early Post-Laser Stapedotomy Hearing Thresholds. American Neurotological Society Spring Mtg. Scottsdale, AZ, May 10-11, 1997.
72. Diagnosis and Treatment of Facial Nerve Paralysis. Armed Forces Institute Combined Annual Meeting, Bethesda, MD, March 8, 1997.
73. Intraoperative Facial Nerve Monitoring. Armed Forces Institute Combined Annual Meeting, Bethesda, MD, March 8, 1997
74. Stapedectomy. Armed Forces Institute Combined Annual Meeting, Bethesda, MD, March 9, 1997
75. Ossicular Chain Reconstruction. Armed Forces Institute Combined Annual Meeting, Bethesda, MD, March 9, 1997
76. Facial Nerve Decompression for Bell's Palsy. Michigan Oto Society Annual Meeting, Crystal Mountain, Michigan, June 27, 1997.
77. Facial Paralysis. Michigan Medical Assistant Conference, Dearborn, Michigan, April 26, 1997

1. Electrically Stimulated Increases in Cochlear Blood Flow: I. Frequency and Intensity Effects. AAO-HNS, Washington, D.C., 9/88.
2. Ossifying Fibroma of the Temporal Bone: Diagnosis and Management. AAO-HNS, New Orleans, LA, 9/89.
3. Effects of Diet Induced Hyperlipidemia on Hearing Function in Guinea Pigs. AAO-HNS, New Orleans, LA, 9/89.
4. Pitfalls in the Radiologic Diagnosis of Skull Base Lesions. AAO-HNS, San Diego, CA, 9/90.
5. The Effects of Carbogen, Carbon Dioxide and Oxygen on Noise Induced Hearing Loss. American Academy of Otolaryngology - Head and Neck Surgery. San Diego, CA, 9/90.
6. Correlation of Intraoperative Facial Nerve Stimulation with Immediate and Delayed Facial Nerve Function Following Acoustic Neuroma Resection. San Diego, CA, 9/94.

Teaching Activities:

Clinical Clerkship monthly lecturer. University of Michigan Medical School.	1987, 1988
Washtenaw County Health Department-Audiologist Training Center. Bone Conduction Theory.	1987, 1988
Washtenaw County Health Department-Audiologist Training Center. Hereditary and Congenital Deafness.	1988
Temporal Bone Surgical Dissection Laboratory, Instructor. University of Michigan	1988, 1989
Temporal Bone Surgical Dissection Laboratory, The Otology Group, Nashville, TN	1989
Temporal Bone Surgical Dissection Laboratory. Providence Hospital, Southfield, Michigan	1990-present
Otolaryngology Review Course. Lisle, Illinois	1990-1992
Temporal Bone Surgical Dissection Laboratory Wayne State University	1991-present
Temporal Bone Surgical Dissection Laboratory Chicago Otology Group, Hinsdale, Illinois	1994
Facial Reanimation Surgery Swedish Hospital, Denver, Colorado	1993
Facial Nerve Monitoring Course Providence Hospital, Southfield, Michigan	1993-Present

Fellows Trained:

Stephen P. Cass, M.D.	1989-1990
Henry B. Cramer, M.D.	1989-1990
Larry Lundy, M.D.	1990-1991
Ernie Diaz-Ordaz, M.D.	1990-1991
John Zannia M.D.	1991-1992

Eric Sargent, M.D.	1992-1993
John Wayman, M.D.	1992-1993
Douglas Liening, M.D.	1992-1993
Patrick Antonelli, M.D.	1993-1994
Donald Burgio, M.D.	1993-1994
Robert Marlin, DDS, M.D.	1994-1995
Gerald Gianoli, M.D.	1994-1995
Brian Duff, M.D.	1995-1996
Brian Peterson, M.D.	1995-1996
Darsit Shah, M.D.	1996-1997
Nicholas Hamill, M.D.	1996-1997
Jennifer Maw, M.D.	1997-1998
William McFeely, M.D.	1997-1999

Panels:

1. Diagnosis and Treatment of Bilateral Meniere's Disease. Prosper Meniere Society. Snowmass, CO 8/90.
2. Advances in Radiologic Imaging of the Skull Base. Prosper Meniere Society. Snowmass, CO 8/90.
3. Management of Facial Paralysis. American Academy of Facial Plastic and Reconstructive Surgery, Columbus, OH, June 3, 1992.

Courses

1. Office Management of the Dizzy Patient. American Academy of Otolaryngology - Head and Neck Surgery. Kansas City, MO. September 22, 1991.
2. Diagnosis and Treatment of Tinnitus. American Academy of Otolaryngology - Head and Neck Surgery. New Orleans, LA, September, 1995.
3. Medical and Surgical Treatment of Balance Disorders. American Academy of Otolaryngology - Head and Neck Surgery, New Orleans, LA, September, 1995.
4. Tinnitus Update. American Academy of Otolaryngology Head and Neck Surgery, Washington DC, September, 1996.
5. Medical and Surgical Treatment of Vertigo. American Academy of Otolaryngology-Head and Neck Surgery, Washington, DC, September, 1996.
6. Laser Stapedectomy. American Academy of Otolaryngology-Head and Neck Surgery, San Francisco, CA, September, 1997
7. Tinnitus Update. American Academy of Otolaryngology-Head and Neck Surgery, San Francisco, CA, September, 1997.
8. Medical and Surgical Treatment of Vertigo. American Academy of Otolaryngology-Head and Neck Surgery, San Francisco, CA, September, 1997
9. Ossicular Chain Reconstruction. 21st Annual MG Paul H. Streit Memorial Otolaryngology Seminar, Bethesda, MD, March 8-9, 1997.
10. Stapedectomy. 21st Annual MG Paul H. Streit Memorial Otolaryngology Seminar, Bethesda, MD, March 8-9, 1997.

12. Surgical Therapy of Facial Paralysis. 21st Annual MG Paul H. Streit Memorial Otolaryngology Seminar, Bethesda, MD, March 8-9, 1997.