

## CURRICULUM VITAE

**Moisés Alberto Arriaga, M.D., M.B.A., F.A.C.S.**

Birthplace: New Orleans, Louisiana

Birthdate: 25 January 1960

Fluent Languages: English, Spanish

### ***Present Positions:***

Director of Neurotology  
LSU Department of Otolaryngology – Head and Neck Surgery  
533 Bolivar Street, 5<sup>th</sup> Floor, New Orleans, Louisiana

Director, Hearing and Balance Center  
Our Lady of the Lake Regional Medical Center  
7777 Hennessy Blvd, Baton Rouge, Louisiana 70808

President, New Orleans Neurotology Consultants, P.C.

### ***ACADEMIC APPOINTMENTS/ EMPLOYMENT HISTORY***

June 2005 - Present	Clinical Professor (Otolaryngology and Neurological Surgery) Louisiana State University School of Medicine New Orleans, Louisiana
2006 – Present	Founder and Director Hearing and Balance Center Our Lady of the Lake Regional Medical Center Baton Rouge, Louisiana
1999 – 2009	President Pittsburgh Ear Associates, P.C. Pittsburgh, Pennsylvania
1999 – 2009	President Pittsburgh Ear Research Foundation Pittsburgh, Pennsylvania
1996 – 1999	Neurotologist Pittsburgh Ear Associates Pittsburgh, Pennsylvania
1996 – 2005	Allegheny General Hearing and Balance Center Founder and Director Pittsburgh, Pennsylvania
June 1996 - 2005	Clinical Associate Professor (Otolaryngology) University of Pittsburgh Pittsburgh, Pennsylvania
June 1996 - 2009	Adjunct Associate Professor of Surgery (Otorhinolaryngology and Neurosurgery) Drexel University previously (MCP Hahnemann) Pittsburgh, Pennsylvania
July 1992 - 2008	Clinical Assistant Professor of Surgery Department of Surgery Uniformed Services

	University of the Health Sciences F. Edward Hebert School of Medicine
May 2003 - 2005	Adjunct faculty member Duquesne University - School of Nursing Pittsburgh, Pennsylvania
July 1991 - May 1996	Director of Otology and Neurotology Department of Otolaryngology Wilford Hall USAF Medical Center
October 1991 - May 1996	Clinical Associate Professor of Otolaryngology University of Texas Health Science Center San Antonio, Texas
Sept. 1991 - May 1996	Faculty School of Aerospace Medicine, Brooks Air Force Base, Texas

**PROFESSIONAL EDUCATION**

UNDERGRADUATE

1978-1982	Brown University Human Biology	ScB with Honors	Providence, Rhode Island
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MEDICAL

1981-1985	Brown University Medical School	MD	Providence, Rhode Island
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POST GRADUATE TRAINING

1985 - 1986	Ochsner Foundation	General Surgery Internship	New Orleans, Louisiana
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1986 – 1990	University of Pittsburgh	Otolaryngology Residency	Pittsburgh, Pennsylvania
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1990 – 1991	House Ear Clinic and House Ear Institute	Neurotology/Otology Clinical Fellowship	Los Angeles, California
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GRADUATE

2002 – 2004	Alvernia College & Pennsylvania Medical Society	Masters in Business Administration (MBA)	Reading, Pennsylvania
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**CERTIFICATION AND LICENSURE**

NATIONAL BOARD CERTIFICATION

1986	National Board of Medical Examiners
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MEDICAL LICENSURE

1987	Pennsylvania
1989	California
1992	Texas
2005	Louisiana

ABMS SPECIALTY CERTIFICATION

1990 American Board of Otolaryngology  
 2004 Board Certification in Neurotology

**Additional Special Training**

1994	Stereotactic Radiosurgery - Linear Accelerator Xknife-2	Radionics	Burlington, MA
1994	Executive Training in Total Quality Management	Lackland AFB	San Antonio, TX
1994	Outcomes Medical Management	St Lukes Center for Management Innovation	Houston, TX
1995	Executive Management	Lackland AFB	San Antonio, TX
1997	Design, Measurement and Analysis of Health Outcomes Studies	Harvard School of Public Health	Boston, MA
1997	CLARION Surgical Training Workshop	Clarion	Pittsburgh, PA
1998	Medico legal Assessment of Hearing Loss		Hilton Head, SC
2000	Clinical Otologic Research Team: OTO CEM	Ionomeric Cement Course	Raleigh, NC
2001	Nucleus 24 Auditory Brainstem Implant Surgical Training	House and Ear Institute and Cochlear Corporation	Los Angeles, CA
2002	Daiichi Program in Evidence-Based Medical Research and Biostatistics	American Academy of Otolaryngology - Head and Neck Surgery Foundation	
2003	Hearing Preservation Workshop II	Goethe University	Frankfurt, Germany
2008	Brain Lab Stereotatic Radiosurgery – User Update	Allegheny General Hospital	Pittsburgh, PA
2009	Hearing Preservation Workshop	Med–EI	Vienna, Austria
2009	Gamma Knife Principles and Practice	University of Pittsburgh Medical Center	Pittsburgh, PA

**Professional Committees**

American Academy of Otolaryngology - Head and Neck Surgery:  
 Task Force on New Materials (1995-1998)  
 Home Study Course Section (1998-2001)  
 IFOS Committee on Prevention of Hearing Impairment (1994-2000)  
 Implantable Hearing Devices Subcommittee (1999-2005)  
 Telemedicine Subcommittee (2008 – 2009)  
 Physician Resource Committee (2009)

Physician Resource Committee: Mid-level Provider Subcommittee (2009)

American Board Of Otolaryngology  
Otolaryngology Training Exam Committee (1998 -2002)

American Neurotology Society  
Past-Chairman of the Facial Nerve Committee  
CME Committee (2005 - Present)

American Otological Society  
Scientific Program Committee (2005, 2007)  
Audit Committee (2005, 2007 – Present)

North American Skull Base Society  
Program Committee (2008 – 2009)

Otosclerosis Study Group  
Nominating Committee (2009)

***Professional Journal Editorial Review Boards and Article Reviewer***

Otology and Neurotology: An International Forum (formerly The American Journal of Otology)  
Article Review Board (1991 - 1994)  
Book Review Editor and Article Reviewer (1996 - Present)

Otolaryngology - Head and Neck Surgery (1992-Present)  
Editorial Board 2005 - Present

Mayo Clinic Proceedings (1996 – 1999 occasional reviewer)

Archives of Otolaryngology - Head and Neck Surgery (1996-Present)

Aviation Space and Environmental Medicine (1998 )

ACTA OTORRINOLINGOLOGICA ESPAÑA (1998)

Laryngoscope (1996- Present)

***Public Service Activities***

Latin American Otitis Media Research and Training Program 1988 – 1998  
Board of Directors

- International Voluntary Organization of Otolaryngologists and Pediatricians which trains primary care providers in the diagnosis and management of otitis media in Latin America

USAF Humanitarian Mission Comayagua, Honduras  
• Cleft Palate Clinic August 1995

USAF Humanitarian Mission Honduras  
• Otitis Media Outreach November 1995

DePaul School for Hearing and Speech Medical Advisory Board Pittsburgh, PA  
• Board of Directors 2006 – Present

New Orleans Hearing Health Fair New Orleans, LA

- Service of PERF, LSU Otolaryngology, Episcopal Diocese of Louisiana and Siemens Hearing Aid

### **HONORS**

- 1978 National Forensic League Debate Championship, Evanston, Illinois  
 1982 Sigma Chi Scientific Honor Society  
 1984 Faculty Scholar Award, Brown University, Providence, Rhode Island  
 1985 Brown University Medical School Commencement Class Speaker  
 1989 Finalist, American Society of Head and Neck Surgery Scholastic Award  
 1989 Frances Davison Award for Best Clinical Research Paper  
 1989 George Schein Memorial Award, Annual Resident Research Competition  
 1989 AMA-Burroughs Welcome Resident Leadership Award for Community Service  
 1990 George Schein Memorial Award, Annual Resident Research Competition  
 1993 Staff Physician of the Quarter Wilford Hall Medical Center, Lackland AFB, TX  
 1994 Promotion to Lieutenant Colonel USAF Medical Corps Two Years "Below-the-Zone"  
 1995 USAF Meritorious Service Medal  
 1996 USAF Achievement Medal  
 1997 Honor Award - American Academy of Otolaryngology - Head and Neck Surgery  
 1997 Physicians Recognition Award of American Medical Association  
 1998 Awarded listing in *Outstanding Young Men of America*  
 1998 Awarded listing in *The Best Doctors in America*  
 1999 Honorary Member - Academy of Science of Galicia, Spain  
 2001 Awarded listing in Castle Connolly Medical Ltd's *Top Doctors in America*  
 2001 Daiichi Clinical Scholars in Outcomes Research, American Academy of Otolaryngology - Head and Neck Surgery  
 2002 Awarded listing in Pittsburgh Magazine's, *Top Doctors*  
 2003 Awarded listing Castle Connolly Medical Ltd's *Top Doctors in America*  
 2004 Awarded listing in Castle Connolly Medical Ltd's *Top Doctors in America*  
 2005 Awarded listing in Pittsburgh Magazine's, *Top Doctors*  
 2006 Awarded listing in New Orleans Magazine's, *Top Doctors*  
 2006 Distinguished Service Award – American Academy of Otolaryngology – Head and Neck Surgery  
 2007 Awarded listing in Pittsburgh Magazine's, *Top Doctors*  
 2007 Awarded listing in Best Doctors in America  
 2008 Awarded listing in Pittsburgh Magazine *Top Doctors*  
 2008 Awarded listing Castle Connolly Medical *Top Doctors in America*  
 2009 Awarded listing in Best Doctors in America  
 2009 Awarded listing in the 64<sup>th</sup> Edition of "Who's Who in America"  
 2009 Awarded listing in Castle Connolly Medical Ltd's *Top Doctors in America*  
 2010 Honored as Distinguished Visitor to Puebla, Mexico

### **Prospective Clinical Trials**

Cochlear 24 Channel Cochlear Implant – Adult Trials	Investigator	
Clinical Otologic Research Team – CORT	A national research consortium of otologists in private practice and academic practice providing New Technology Trials of Otologic products, implants and devices	1997 - Present

A Twelve-Month, Randomized, Double-Blind, Placebo-Controlled

Study to Evaluate the Quality of Life and Safety Associated with the Long-Term Use of Alosetron in Subjects with Irritable Bowel Syndrome	Otologic Evaluation Component Investigator	1997
Symphonics Sound Bridge Implantable Hearing Device Trial (USA Study)	Investigator	1998
Implex Corporation: Total Implantable Cochlear Amplifier Trial (USA Study)	Investigator	
CLARION Multi-Strategy Cochlear Implant System in Severely and Profoundly Hearing Impaired Adults		
Envoy Medical Corporation's Envoy Totally Implantable Hearing System, US Clinical Trial - Phase I FDA study	Investigator	2001 - 2004
Respironic's Corporation: Rock It Vestibular Stimulation Sleep Enhancer- An Assessment of Audiovestibular Effects	Investigator	2003 - 2005
Envoy Totally Implantable Hearing System Clinical Trial Investigational Plan U.S. Pivotal and European CE Mark Trial	Investigator	2003 – 2006

**MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES**

Allegheny County Medical Society  
American Academy of Otolaryngology - Head and Neck Surgery  
American College of Surgeons --- Fellow  
American Legion Member (1996-Present)  
American Medical Association  
American Neurotology Society - Fellow  
American Otological Society - Member  
Capital Medical Society  
House Ear Institute Fellows Alumni Group (Past President)  
Louisiana Medical Society  
North American Skull Base Society - Fellow  
Otosclerosis Study Group  
Pennsylvania Academy of Otolaryngology - Head and Neck Surgery, Chairman of Otology and Hearing Conservation Committee 2003 -2005  
Pennsylvania Medical Society  
Sir Charles Bell Society  
Society of Ear, Nose, and Throat Advances in Children  
Triological Society: American Laryngological, Rhinological and Otological Society - Member

**PUBLICATIONS**

**TEXTBOOKS**

Brackmann D, Shelton C, Arriaga M (editors): **Otologic Surgery**, W.B. Saunders Co. Philadelphia, PA, September 1994.

- Fukushima T, Arriaga MAA, Chen DA: **Temporal Bone Dissection Manual**, Allegheny Neuroscience Institute, Pittsburgh, PA, 1996.
- Arriaga MA, Day J: **Neurosurgery and Otolaryngology: Principles and Practice of Collaborative Surgery**. Lippincott Press. New York. September 1999.
- Syms CA, Arriaga MA: **Rehabilitation of Neuro-Otologic Deficits**. Otolaryngologic Clinics of North America 30:5, October 1997.
- Syms CA, Arriaga MA, De La Cruz A: **Board Review in Otolaryngology**. Thieme Press (In preparation scheduled publication 2003).
- Brackmann D, Shelton C, Arriaga M (editors): **Otologic Surgery, Second Edition**. W.B. Saunders Co. Philadelphia. May 2001.
- Brackmann D, Shelton C, Arriaga M (editors): **Otologic Surgery, Third Edition**. W.B. Saunders Co./ Elsevier Philadelphia: 2010.

#### **BOOK CHAPTERS**

- Mazur E, Arriaga M, South K, Cohen J: Polypoidization of human megakaryocytes in culture. pp. 193-199. In Levine R, Williams J, Levin J, Evatt B (eds): **Megakaryocyte Development and Function**. Alan R. Liss, Inc., New York, 1986.
- Myers EN, Arriaga M: Salivary gland pathology. In Costa SS, Cruz OL (eds): **Otorhinolaryngologia-- A Basic Textbook**. Editora Artes Medica Sul Ltda. Sao Paulo, June 1991.
- Arriaga M, Brackmann D: Differential diagnosis of posterior fossa skull base neoplasms. In Cummings C, Fredrickson J, Krause C, Schuller D (eds): **Otolaryngology - Head and Neck Surgery**. C.V. Mosby Co., St. Louis, Second Edition, September 1992.
- Arriaga M, Brackmann D: Surgical approaches for posterior fossa skull base neoplasms. In Cummings C, Fredrickson J, Krause C, Schuller D (eds): **Otolaryngology - Head and Neck Surgery**. C.V. Mosby Co., St. Louis, Second Edition, September 1992.
- Arriaga M, Brackmann D: Surgery for glomus tumors. In Brackmann D, Shelton C, Arriaga M (eds): **Otologic Surgery**. W.B. Saunders, 1994.
- Arriaga M: Anatomy of transtemporal surgery. In Janecka IP and Tiedemann K (eds) : **Skull Base: Anatomy, Biology, and Technology**. Raven-Lippincott, Philadelphia, 1997.
- Arriaga M: Middle fossa approaches. In Fukushima T (ed): **ANI Manual of Skull Base Dissection**. Allegheny Neuroscience Institute, 1996.
- Arriaga M, Brackmann D: Posterior fossa skull base neoplasms. In Cummings C, Fredrickson J, Krause C, Schuller D (eds): **Otolaryngology - Head and Neck Surgery**. C.V. Mosby Co., St. Louis, Third Edition, Vol. 4:169; 3294 - 3330, June 1998.
- Arriaga MA: Traumatic Facial Paralysis. **Current Therapy in Otolaryngology, Head and Neck Surgery**. Gates (edition). Mosby. Pages 121-125, January 1998.
- Green JD, De La Cruz A, Arriaga MA et al: "**Surgical Management of Glomus Jugular Tumors with Intracranial Extension**" in Skull Base Surgery: First Int. Skull Base Congress, Hanover 1992, Sami M (ed) 1006-1009, Karger, 1994.
- Arriaga MA, Chen DA: Surgical Treatment of Uncompensated Vestibular Disease. In Syms CA, Arriaga MA (eds): **Rehabilitation of Neurotologic Disease**. WB Saunders Company, Philadelphia, Vol 30:5; 759-

776, October 1997.

- Amedee RG, Derkay C, Tami TA, Hendrix RA, Arriaga MA, Benninger MS: Home Study Course - Ethics and Socioeconomic issues in Otolaryngology. American Academy of Otolaryngology - Head and Neck Surgery Foundation, Inc. Section 2, November - January 1997-1998.
- Arriaga MA: Glomus Tympanicum Paragangliomas. In Jackler RA and Driscoll C (eds) **Tumors of the Ear and Temporal Bone**. Lippincott Williams and Wilkins, Philadelphia, May 2000.
- Arriaga MA: Cholesteatoma. In Alper C, Myers EM, Eibling DE (eds) **Decision-Making in Ears, Nose and Throat Disorders**. W.B. Saunders Co., Philadelphia, 2001.
- Arriaga MA: Tumors of the Ear and Temporal Bone. In Alper C, Myers EM, Eibling DE (eds) **Decision-Making in Ears, Nose and Throat Disorders**. W.B. Saunders Co., Philadelphia, 2001.
- Carrau RL, Kassam A, Arriaga MA: Surgical Approaches to the Infratemporal Fossa. **In E-Textbook in ENT**. Submitted to E-Medicine, 2000.
- Arriaga MA: Mastoidectomy: The Canal Wall Down Procedure. In Brackmann DE, Shelton C, Arriaga MA (eds) **Otologic Surgery, Second Edition**. W.B. Saunders Co., Philadelphia. June, 2001.
- Chen DA, Arriaga MA: Acute Facial Paralysis. In Pensak ML (ed) **Controversies in Otolaryngology**. Thieme Medical Publishers, 227-231, 2001.
- Arriaga MA: Overview of Transtemporal Skull Base Surgery. In Brackmann DE, Shelton C, Arriaga MA (eds) **Otologic Surgery, Second Edition**. W. B. Saunders Co., Philadelphia. June, 2001
- Brackmann DE, Arriaga MA: Surgery for Glomus and Jugular Foramen Tumors. In Brackmann DE, Shelton C, Arriaga MA (eds) **Otologic Surgery, Second Edition**. W.B. Saunders Co., Philadelphia. June 2001.
- Carrau RL, Kassam A, Arriaga MA: Anterior and Subtemporal Approaches to the Infratemporal Fossa. In Brackmann DE, Shelton C, Arriaga MA (eds) **Otologic Surgery, Second Edition**. W. B. Saunders Co., Philadelphia. June 2001.
- Arriaga MA, Chen DA: Facial Nerve Paralysis After Acoustic Neuroma Surgery: Prognosis and Prevention. In Shelton C (ed) **Update on Facial Nerve Disorders**. American Academy of Otolaryngology - Head and Neck Surgery Foundation, Inc. Alexandria, VA. 2001.
- Arriaga MA: Facial Nerve Repair - Cerebellopontine Angle and Intratemporal Facial Nerve Techniques. In Shelton C (ed) **Update on Facial Nerve Disorders**. American Academy of Otolaryngology - Head and Neck Surgery Foundation, Inc. Alexandria, VA 2001.
- Arriaga MA, Chen DA: Paragangliomas del Hueso Temporal. In Suarez C, Medina Jesus (eds) **Tratado de Otorrinolaringología y Cirugía de Cabeza y Cuello**. Proyectos Médicos, S.L. San Fernando de Henares (Madrid), Chapter 178, pg 2454-2465, 2000.
- Brackmann DE and Arriaga MA: Posterior fossa skull base neoplasms. In Cummings C, Fredrickson J, Krause C, Schuller D (eds): **Otolaryngology - Head and Neck Surgery**. C.V. Mosby Co., St. Louis, Fourth Edition, December, 2004.
- Arriaga MA: Tumores Gnómicos del oído medio y del golfo yugular. In García JM (ed) **Otología**. Bogota, Columbia
- Arriaga MA: Tumores Temporales. In Barberan MT, Perez TP, Sprekelsen MB (eds): **Protocolos Clínicos de Otorinlaringología**. Barcelona, Espana 2005.
- Arriaga MA: Proceedings for the 5th International Symposium on Meniere's Disease and Inner Ear Homeostasis Disorders. House and Ear Institute Press, Los Angeles, CA August, 2005.

- Arriaga MA: Temporal Bone Resection. In Myers EN and Ferris RL (eds) **Salivary Glad Disorders**. Springer-Verlag Berlin Heidelberg, Chapter 23, 393-405, 2007.
- Arriaga MA: Glomus Yugular y Timpanico. In Sanjuan AP, Gomez JMG, Pinzon M (eds):**Manual de Otorrinlaringologia**, Cabeza y Cuello. AMOLCA, Caracas, Venezuela, 2007.
- Arriaga MA: Tumores de la Fosa Posterior y Vias de Acceso. In Juan Andrade Pradillo y German Fajardo Dolci (ed): **Temas Selectos en Otorrinlaringologia**, Editorial Alfil, Mexico DF, Mexico, 2007.
- Arriaga MA , Ying YM: Tinnitus in Meniere's Disease. In Moller, A (ed) **Textbook of Tinnitus**. In Press.

**PEER-REVIEWED SCIENTIFIC PUBLICATIONS**

- Arriaga M, South K Cohen J, Mazur E: Interrelationship between mitosis and endomitosis in cultures of human megakaryocyte progenitor cells. *Blood* 69(2):492-496, 1987.
- Arriaga M, Myers E: Ectopic thyroid in the retroesophageal superior mediastinum. *Otolaryngol Head Neck Surg* 99(3):338-340, 1988.
- Arriaga M, Derkay C: Pathology quiz: Kaposi's sarcoma. *Arch Otolaryngol Head Neck Surg* 115(3):390-393, 1989.
- Arriaga M, Bluestone C, Stool S: The role of tympanocentesis in the management of septic infants. *Laryngoscope* 99(10): 1048-1051, 1989.
- Arriaga M, Hirsch B, Kamerer D, Myers E: Squamous cell carcinoma of the external auditory meatus. *Otolaryngol Head Neck Surg* 101(3): 330-337, 1989.
- Arriaga M, Janecka I: Surgical exposure of the nasopharynx: Anatomical basis for a transfacial approach. *Surgical Forum* 40:547-549, 1989.
- Arriaga M, Eavey R, Stool S, Guererro J, Odio C, Santos J: Programa educativo y de investigaciones sobre diagnostico y tratamiento de otitis media en Latino America. *Bol Med Hosp Infantil Mexico* 42:2, 1990.
- Sculerati N, Arriaga M: Otolaryngologic management of post-transplantation lymphoproliferative disease in children. *Ann Otol Rhinol Laryngol* 99:445-450, 1990.
- Janecka I, Sen C, Sekhar L, Arriaga M: Facial translocation: A new approach to the cranial base. *Otolaryngol Head Neck Surg* 103(3): 413-419, 1990.
- Arriaga M, Dindzans L, Bluestone C: Parotid duct communicating with a labial pit and ectopic salivary cyst. *Arch Otolaryngol Head Neck Surg* 116(12): 1445-1447, 1990.
- Rothfield R, Arriaga M, Felder H: Peritonsillar abscess in Kawasaki's disease. *Intl J Ped Otolaryngol* 20(1990):73-79.
- Arriaga M, Kanel K, Johnson J, Myers EN: Medical complications in total laryngectomy: Incidence and risk factors. *Ann Otol Rhinol Laryngol* 99(8): 611-615, 1990.
- Arriaga M, Myers EN: Surgical management of chronic parotitis. *Laryngoscope* 100(12): 1270-1275, 1990.
- Arriaga M, Curtin H, Takahashi H, Kamerer D: The role of preoperative CT scans in staging external auditory meatus carcinoma: A radiological-pathological correlation study. *Otolaryngol Head Neck Surg* 105 (1): 6-11, 1991.
- Arriaga M, Janecka I: Facial translocation approach to the cranial base: The anatomical basis. *Skull Base Surgery* 1(1): 22-30, 1991.
- Arriaga M, Curtin H, Takahashi H, Hirsch B, Kamerer D: A TNM staging proposal for external auditory meatus

- carcinoma based on preoperative clinical examination and CT scan findings. *Ann Otol Rhinol Laryngol* 99(9): 714-721, 1990.
- Arriaga M, Myers EN: Carcinoma de laringe: experiencia de la Universidad de Pittsburgh en el tratamiento de 606 casos. *Anales Otorinol Mex XXXVI* (Ene., Feb. y Mar):19-22, 1991.
- Arriaga M, Brackmann D: Technique and outcome of facial nerve repair in cerebellopontine angle tumor surgery. *Am J Otolaryngol* 13(4): 356-359.
- Arriaga M, Brackmann D: Differential diagnosis of primary petrous apex lesions. *Am J Otolaryngol* 12(6): 470-474, 1991.
- Arriaga M, Luxford W. Impedance induced iatrogenic hearing loss. *Otolaryngol Head Neck Surg* 108(1):70-72, 1993.
- Arriaga M, Lo W, Brackmann D: Imaging case study of the month. Magnetic resonance angiography of synchronous bilateral carotid body paragangliomas and bilateral vagal paragangliomas. *Ann Otol Rhinol Laryngol* 101(11): 950-953, 1992.
- Nassif P, Shelton C, Arriaga M: Hearing preservation: A realistic goal in surgical removal of meningiomas affecting the temporal bone. *Proceedings of the Pacific Coast Oto-Ophthalmological Society. Volume 72: 105-107, 1991.*
- Nassif P, Shelton C, Arriaga M: Hearing preservation following surgical removal of meningiomas affecting the temporal bone. *Laryngoscope* 102(12): 1357-1362, 1992.
- Arriaga MA, Shelton C, Nassif P: Selection of surgical approach in meningiomas affecting the temporal bone. *Otolaryngol Head and Neck Surg* 107: 738-744, January 1993.
- Arriaga MA, Luxford WM, Atkins J, Kwartler J: Predicting long-term facial nerve outcome following acoustic neuroma surgery. *Otolaryngol Head and Neck Surg* 108 (3): 220-224, 1993.
- Weissman JL, Arriaga MA, Curtin HD, Hirsch BE: Duplication anomaly of the internal auditory canal. *Am J Neurorad* 12:867-869, September/October 1991.
- Arriaga M, Brackmann D, Hitselberger W: The extended middle fossa approach to cavernous sinus and petroclival neoplasms. *Laryngoscope* 103 (6): 693-698, 1993.
- Long S, Arriaga M, Nelson R: Acoustic neuroma volume: MRI-based calculations and clinical implications. *Laryngoscope* 103 (10): 1093-1096, October, 1993.
- Arriaga M, Long S, Nelson R: Clinical correlates of acoustic neuroma volume. *Am J Otolaryngol* 14 (5): 465-468, September 1993.
- Telisch F, Arriaga M, Lo W, De La Cruz A: Lateral extent of internal auditory canal involvement by acoustic neuromas: A surgical-radiological correlation. *Am J Otolaryngol* 14 (5): 446-450, September 1993.
- Boyd ER, Arriaga, MA, Kluznick RM: Preoperative SPGR MRI in surgical planning for petrous apex cholesterol granuloma excision via the transcanal infracochlear approach. Published in Abstract Form, *Skull Base Surgery* 3 (Supplement), p. 26, January 1993.
- Arriaga MA, Carrier D, Chapel P, Kluznick R: Magnetic resonance imaging in surgical planning for cochlear implantation. *Southern Medical Journal* 86 (9): S90, September 1993.
- Wiseman J, Boyd E, Arriaga MA: Reactive fibrous tumor of the facial nerve. *Southern Medical Journal* 86 (9): S96, September 1993.
- Arriaga MA, Gorum M, Griffith M, Haid R, Masel D: Transcochlear exposure of the ventral brainstem. *Southern*

- Medical Journal 86 (9): S60, September 1993.
- Arriaga MA, Berliner K, Luxford WM: Facial nerve function following middle fossa and translabyrinthine acoustic neuroma surgery. *Am J Otolaryngol*. 15 (5): 620-624, September 1994.
- Arriaga MA: Cholesteatoma in children. *Otolaryngologic Clinics of North America*, 72 (3): 573-591, June 1994.
- Arriaga MA, Lo WWM, Brackmann DE: Clinical and imaging characteristics of metastatic melanoma to the cerebellopontine angle. *Arch Otolaryngol* 121 (9) 1052-1056, 1995.
- Green JD, Nguyen CD, Arriaga MA et al: Surgical management of previously untreated glomus jugular tumors. *Laryngoscope*, 104 (8) 917-921, August 1994.
- Eavey RD, Santos JI, and Arriaga MA et al: An educational model for otitis media care field-tested in Latin America. *Otolaryngol Head Neck Surg* 109 (5): 895-898, 1993.
- Arriaga MA, Haid RM, Masel DM: Antidromic stimulation of the Greater Superficial Petrosal Nerve (GSPN) in Middle Fossa Surgery. *Laryngoscope* 105 (1): 102-105, 1995.
- Noordzij JP, Arriaga MA, Stone AB: Differentiating bony lesions of the external auditory canal. *Ear Nose Throat Journal* 74 (1): 49-51, January, 1995.
- Arriaga MA, Marks SO: Simultaneous cochlear implantation and acoustic neuroma resection. *Otolaryngol Head Neck Surg* 112(2): 325-328, February, 1995.
- Arriaga MA, Carrier D, Houston GD: False positive MRI of small IAC tumors: A clinical, radiologic, pathologic study. *Otolaryngol Head Neck Surg* 113 (1):61-70, 1995.
- Thiringer KD, Arriaga MA: Stapedectomy in military aircrew. *Otolaryngol Head Neck Surg* 118(1):9-14, January, 1998.
- Arriaga MA Gorum M: Indications and variations of transcochlear exposure of the ventral brainstem. *Laryngoscope*, 106(5) pt 1:639-644, May, 1996.
- Arriaga MA and Carrier D: MRI and clinical decisions in cochlear implantation. *Am J Otolaryngol*, 17(4): 547-553, July, 1996.
- Arriaga MA: Enhanced retrosigmoid exposure with posterior semicircular canal resection. *Otolaryngol Head and Neck Surg*, 115(1):46-48, July, 1996.
- Arriaga MA, Villaseñor A, Eavey R, et al: Educational outcomes of an otitis media workshop for primary care providers in Latin America. *Otolaryngol Head and Neck Surg*. Vol 118, Num 3, Part 1, page 394-396, March 1998.
- Carrier D and Arriaga MA: Cost effective evaluation of asymmetric sensorineural hearing loss with focused MRI. *Otolaryngol Head and Neck Surg*. Vol 116, Num 6, Part 1, page 567-574, June, 1997.
- Arriaga M, Gorum M, Kennedy A: Clinical pathways in acoustic neuroma management. *Laryngoscope*. 107:602-606, May 1997.
- Arriaga MA: Preservación de la audición en neurinomas del nervio acústico. *Organización Puertorriqueña de Patología del Habla y Lenguaje y Audio logía*, Volumen 13, Num. 1, 1996.
- Arriaga M, Carrier D, Dahlen R: Preoperative endovascular occlusion of the inferior petrosal sinus and condylar veins. *Am J Otolaryngol*. Revision submitted.
- Carrier D, Arriaga M, Dahlen R: Preoperative embolization of anastomoses of the jugular bulb: A new adjuvant in jugular foramen surgery. *Am J Neuroradiology*. Vol 18, Num 7, 1252-1256, August, 1997.

- Arriaga MA, Chen DA: Surgical treatment of uncompensated vestibular disease. *Otolaryngologic Clinics of North America*, Vol. 30, No. 5, 759-776, October 1997.
- Arriaga MA: Post-traumatic hydrops. *Otolaryngologic Clinics of North America*. Vol 30, #6, 1117-1122, December, 1997.
- Chen DA, Rothfus WE, Arriaga MA: Imaging Case of the Month: Cavernous Hemangioma. *Am J Otology* 18:671-672, 1997.
- Chen DA, Arriaga MA, Fukushima T: Technical refinements in middle fossa surgery. *Am J Otology* 19:208-211, March, 1998.
- Arriaga MA, Dixon P: Cytotoxicity of cytokeratin monoclonal antibody against keratinocytes - A possible therapeutic adjunct for cholesteatoma? *Am J Otology* 19:26-29, January 1998.
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Stool S, Arriaga M: Otitis media. (Spanish videotape describing basic pathophysiology, diagnosis and management of otitis media), 1989.

Arriaga M, Janecka I: Anatomical considerations in a facial translocation approach to the cranial base, 1990.

Arriaga M, Brackmann D: Surgical technique of facial nerve anastomosis in the cerebellopontine angle, 1990.

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Arriaga M: Facial nerve repair techniques: Cerebellopontine angle and intratemporal facial nerve, Otolaryngology Audio-Digest. Volume 33, Issue 08, April 21, 2000.

#### **PROFESSIONAL ACTIVITIES**

#### PRESENTATIONS

"Carcinoma of the Temporal Bone" - 34th Annual Meeting, American College of Surgeons Southwestern

- Pennsylvania Chapter. Pittsburgh, Pennsylvania, 27 April 1988.
- "Squamous Cell Carcinoma of the External Auditory Meatus" - Annual Meeting, Pennsylvania Academy of Ophthalmology and Otolaryngology. Hershey, Pennsylvania, 10-11 June 1988.
- "Temporal Bone Carcinoma: A Review of 26 Patients" - International Symposium on Cranial Base Surgery. Pittsburgh, Pennsylvania, 13-17 September 1988.
- "El manejo de Infantes Sépticos Mediante la Tympanocentesis" - Coloquio de infectología, Colegio de Medicos y Cirujanos. San Jose, Costa Rica, 21 January 1989.
- "El Uso de Tympanocentesis en Infantes Sépticos" - Coloquio de Infecciones Severas Glaxo. Guadalajara, Mexico, 25 January, 1989.
- "Role of Tympanocentesis in the Management of Septic Infants" - Eastern Section Meeting of the Triological Society. Toronto, Ontario, 27-28 January, 1989.
- "Staging External Auditory Meatus Carcinoma -- A Radiological-Pathological Study" - Pennsylvania Academy of Ophthalmology and Otolaryngology. Pittsburgh, Pennsylvania, 14 April, 1989.
- "Considerations for the Facial Translocation Approach to the Nasopharynx" - Mid-Atlantic Resident's Research Symposium, Uniformed Services University Health Science Center. Bethesda, Maryland, May, 1989.
- "Surgical Exposure of the Nasopharynx: Anatomic Basis for a Transfacial Approach" - Proceedings for the 45th Annual sessions of the Forum on Fundamental Surgical Problems, 1989 Clinical Congress of the American College of Surgeons. Atlanta, Georgia, 15-20 October, 1989.
- "Practical Applications of Tympanocentesis in Sepsis" - Interdisciplinary Colloquium on Otitis Media. Tuxtla Gutiérrez, Chiapas, Mexico, 10 January 1990.
- "Surgical Management of Chronic Parotitis" - Eastern Section Meeting of the Triological Society. New Haven, Connecticut, 25-27 January 1990.
- "Anatomical Considerations in a Facial Translocation Approach to the Cranial Base" - North American Society for Skull Base Surgery. Marina del Rey, California, 18 February 1990.
- "Medical Complications in Head and Neck Surgery - A Comparison Study" - Southwestern Chapter of the American College of Surgeons. Pittsburgh, Pennsylvania, 11 April 1990.
- "A TNM Staging Proposal for External Auditory Meatus Carcinoma Based on Clinical Examination and Preoperative CT Scans" - American Otological Society Annual Meeting. Palm Beach, Florida, 5 May 1990.
- "Medical Complications in Total Laryngectomy: Incidence and Risk Factors" - American Laryngological Association Annual Meeting. Palm Beach, Florida, 5 May 1990.
- "Clinical Staging of Temporal Bone Cancer" - Otology Mini-seminar, University of Pittsburgh, Department of Otolaryngology. University of Pittsburgh, Pennsylvania, 18-19 May, 1990.
- "Facial Nerve Repair in Cerebellopontine Angle Tumor Surgery," Second Annual Meeting of the North American Skull Base Surgery Society. Lake Buena Vista, Florida, 1-3 March 1991.
- "Selection of Surgical Approaches in Temporal Bone Meningiomas," Annual Meeting of the American Academy of Otolaryngology --Head and Neck Surgery. Kansas City, Missouri, September 1991.
- "Chronology of Facial Nerve Recovery Following Acoustic Neuroma Surgery," Accepted for Presentation at the 1991 Annual Meeting of the American Academy of Otolaryngology -Head and Neck Surgery. Kansas City, Missouri, September 1991.

"Extended Middle-Fossa Approach to Petroclival and Cavernous Sinus Neoplasms," Eastern Section Meeting of the Triological Society. Boston, MA, January 1992.

"Acoustic Neuroma Volume: Clinical Implications of MRI- Based Calculations," Spring Meeting of the American Neurotologic Society. Desert Palm Springs, CA, April 1992.

"Imaging Considerations in the Differential Diagnosis of Posterior Fossa Skull Base Tumors," Society of Air Force Clinical Surgeons Annual Meeting. San Antonio, TX, April 1992.

"Practical Considerations in Otologic Diagnosis," University of Pittsburgh Department of Otolaryngology Teaching Day. Pittsburgh, PA, 15 May 1992.

"Clinical Evaluation of the Dizzy Patient," University of Texas Health Science Center at San Antonio, Otolaryngology Basic Science Course. San Antonio, TX, 15 July 1992.

"Aeromedical Implications of Ear Surgery," School of Aerospace Medicine. Brooks AFB, Texas, 21 July 1992.

"Temporal Bone Lymphoma Masquerading as an Intracranial Complication of Otitis Media," Alexis Lane, MD; and Moisés Arriaga, MD, Society for Ear, Nose and Throat Advances in Children. Toronto, Ontario, 5 December, 1992.

"Aspectos prácticos en el diagnostico de otitis media en recién nacidos," Jornadas Anuales del Hospital Infantil Federico Gomez. Pachuca, Mexico, 22 November 1992.

"Otitis Media Crónica: Casos Especiales," Colegio de Pediatras de Culiacán. Culiacán, Mexico, 18 January, 1993.

"Abordajes Neurotologicos--- Un Resumen," Dallas Foundation of Otology, International Course, 1 March, 1993.

"Facial Nerve Function after Middle Fossa vs. Translabyrinthine Acoustic Neuroma Surgery," American Neurotological Society. Los Angeles, CA, 16-17 April 1993.

"Antidromic Stimulation of the Greater Superficial Petrosal Nerve (GSPN) in Middle Fossa Surgery," American Otological Society. Los Angeles, CA, 17-18 April 1993.

"Cochlear Implants - Update on the Wilford Hall Experience," Society of Air Force Clinical Surgeons. Biloxi, MS, 20-21 April 1993.

"Neurotology and Aerospace Medicine," School of Aerospace Medicine. Brooks AFB, Texas, 24 August 1993.

"Neurotologic Approaches to the Skull Base," Dallas Foundation of Otology. Dallas, Texas, 1 September 1993.

"Magnetic Resonance Imaging in Surgical Planning for Cochlear Implantation," Southern Medical Association National Meeting, Otolaryngology Section. New Orleans, Louisiana, 28 October, 1993.

"Transcochlear Exposure of the Ventral Brainstem," Southern Medical Association National Meeting, Neurosurgical Section. New Orleans, Louisiana, 29 October 1993.

"Evaluation and Management of Dizziness," Emory University CME. Atlanta, Georgia, 9 December 1993.

"Selection of Surgical Approaches in Neurotologic Skull Base Surgery". Emory University, Neurosurgical Grand Rounds. Atlanta, GA. December 9, 1993.

"Evaluation and Management of Hearing Loss," Emory University CME. Atlanta, Georgia, 9 December 1993.

"Aspectos Prácticos de la Otitis Media," Universidad Autónoma de Yucatán. Mérida, Mexico, 17 January 1994.

"Neurotologic Approaches to the Ventral Brainstem." Baylor University Medical Center.

Dallas, Texas, 25 January 1994.

"Computerized Instruction in Skull Base Surgery: The Translabyrinthine Approach," Nadeem Hussain BS, and Moisés Arriaga, North American Skull Base Society Annual Meeting. Orlando, Florida, February 1994.

"Expanding Applications of Neurotologic Skull Base Surgery" Jacksonville, FL. April 23, 1994.

"Outcomes of Neurotologic Surgery in a Military Practice," Society of Air Force Clinical Surgeons, Annual Meeting. San Antonio, Texas, 26 April, 1994.

"Indications and Applications of Cochlear Implants" Jackson, Mississippi. June 3, 1994.

"Selection of Transcochlear Exposure of the Ventral Brainstem," International Symposium on Surgery of the Inner Ear --- Prosper Meniere Society. Aspen, Colorado, 22 July 1994.

"False Positive MRI of Small IAC Tumors," Plenary Session, Annual Meeting of the American Academy of Otolaryngology - Head and Neck Surgery. San Diego, California, 22 September, 1994.

"Otitis Media en el Recién Nacido," Simposio Práctico y Teórico Sobre la Otitis Media. San Cristóbal, Venezuela, 31 October 1994.

"Otitis Media y Tympanocentesis," Simposio Práctico Y Teórico de Infecciones Respiratorias Morelia. Michoacán, Mexico, 16 January 1995.

"Mastoidectomy in the Cue Ball," Dallas Foundation of Otology. Dallas, Texas, 30 January 1995.

"Technical Considerations in Middle Fossa Surgery," Mayo Medical School. Rochester, Minnesota, 10 February 1995.

"Facial Nerve Outcomes and Their Predication," San Antonio Society of Otolaryngology - Head and Neck Surgery, Annual Symposium. San Antonio, Texas 25 February 1995.

"Nuevas Aplicaciones de Abordajes Neurotológicos," International Temporal Bone Dissection Course, Baylor Medical Center. Dallas, Texas, 20 March 1995.

"MRI and Clinical Decisions in Cochlear Implantation," Annual Spring Meeting of American Neurotology Society. Desert Palm Springs, California, 30 April 1995.

"New Techniques in Ossiculoplasty" Carolina Ear Institute. Raleigh, North Carolina, 18 May 1995.

"Neurotologic Skull Base Surgery - New Techniques," Neuroscience Grand Rounds, Allegheny General Hospital. Pittsburgh, Pennsylvania, 24 May 1995.

"Decisions in Chronic Otitis Media". Mayo Clinic, Otology Grand Rounds, June 9, 1995.

"Otitis Media," San Pedro Sula ENT Society. San Pedro, Honduras, 2 August 1995.

"Abordajes Neurotológicos," Tegucigalpa ENT Society. Tegucigalpa, Honduras 3 August 1995.

"Implantes Cocleares y Audiología," and "Cirugía del Cerebelo y el audiólogo," Organization of Puerto Rican Audiologists and Speech Pathologists Annual Convention. Humacao, Puerto Rico, 28 October 1995.

"Otitis Media en Honduras - Estudios de Epidemiología". Tegucigalpa, Honduras, 16 November 1995.

"Expanding Applications of Neurotologic Cranial Base Surgery, University of Colorado Department of Otolaryngology Grand Rounds. Denver, Colorado. November 30, 1995.

"Individualized Approach to Hearing Conservation CPA Tumor Surgery," Baylor University Medical School.

- Dallas, Texas, 29 January 1996.
- "Hearing Preservation CPA Tumor Surgery," Society of Air Force Clinical Surgeons Annual Meeting. San Antonio, Texas, 5 April 1996.
- "Cost Effective Diagnosis of CPA Tumors," University of Pittsburgh Alumni Day. Pittsburgh, PA, 19 April, 1996.
- "Mastoidectomy in the Diseased Ear"; "Revision Stapedectomy"; "Medial Graft Tympanoplasty and Selection of Technique" Allegheny Neuroscience Institute. Pittsburgh, PA, 26 April 1996.
- "Preoperative Endovascular Occlusion of the Inferior Petrosal Sinus and Condylar Veins," National Meeting of The American Otological Society. Orlando, Florida, 4 May 1996.
- "Clinical Pathways in Acoustic Neuroma Management," The Triological Society Annual Meeting. Orlando, Florida, 6 May 1996.
- "Dizziness, Vertigo and Balance Disorders," Sharon Regional Hospital. Sharon, PA, 3 June 1996.
- "Neurophysiology of Hearing/Balance," Neuroscience Lecture Series, Allegheny General Hospital. Pittsburgh, PA, 31 July 1996.
- "Hearing Prevention: CPA Surgery", Dallas Foundation of Otology, Baylor University Medical School. Dallas, Texas, 1 September 1996.
- "Balance Disorders," Department of Medicine Lecture Series, Allegheny General Hospital. Pittsburgh, PA, 3 September 1996.
- "Balance Disorders", Update in Primary Care Medicine, Allegheny General Hospital. Pittsburgh, PA, 4 September 1996.
- "Hearing Preservation Acoustic Neuroma Surgery", Allegheny Neuroscience Institute, Advanced Skull Base Dissection Course. Pittsburgh, PA, 4 October, 1996.
- "Basic Mastoidectomy Techniques", Allegheny Neuroscience Institute, Temporal Bone Dissection Course. Pittsburgh, PA, 25 October 1996.
- "Balance Disorders", Allegheny Neuroscience Institute, Temporal Bone Dissection Course. Pittsburgh, PA, 26 October 1996.
- "Otitis Media en Niños", Latin America Otitis Media Research and Training Program. Caracas, Venezuela, 21 November 1996.
- "Casos Especiales De Otitis Media", Puerto Ordaz, Venezuela, 22 November 1996.
- "Pre Congress Course", Pan American Society of Otolaryngology. Cartagena de Indias, Columbia, 23 November 1996.
- "Advances in Vestibular Diagnosis", Neuroscience Grand Rounds, Allegheny General Hospital. Pittsburgh, PA, 27 November, 1996.
- "Outcomes of CPA Tumors in Hazardous Occupations", Middle Section of The Triological Society. Kansas City, MD, 26 January 1997.
- "Pediatric Otology", Indiana Hospital. Indiana, PA, 28 January 1997.
- "Individualizing Hearing Preservation Acoustic Neuroma Surgery", Eastern Section of The Triological Society. Boston, MA, 31 January 1997.
- "Balance Disorders in the Elderly, Geriatric Orthopedic Update", Allegheny General Hospital. Pittsburgh, PA, 1

- February, 1997.
- “Radiología en Otolología”, Puerto Rico Academy of Audiology, 2nd Annual State Convention. San Juan, Puerto Rico, 7-9 February 1997.
- “Facial Paralysis”, Emergency Medicine Lecture Program, Allegheny General Hospital. Pittsburgh, PA, 13 March 1997.
- “Management of Common Otologic Problems”, Duquesne University School of Nurse Practitioners, Duquesne University. Pittsburgh, PA, 19 March 1997.
- “Cost Effective Acoustic Neuroma Management: Radiation vs. Surgery”, American College of Surgeons, Southeast Pennsylvania Chapter. Pittsburgh, PA, 2 April 1997.
- “Outcome Based Management of Acoustic Neuromas”, Pennsylvania Tri-State Chapter of the Acoustic Neuroma Association, Allegheny Valley. Pittsburgh, PA, 12 April 1997.
- Moderator: Panel Discussion on Practical Otology. University of Pittsburgh Otolaryngology Alumni Day. Pittsburgh, PA 26 April 1997.
- “Technical Modifications in Middle Fossa Surgery”, America Neurotology Society Annual Meeting. Scottsdale, AZ, 10 May 1997.
- “Cytotoxicity of Cytokeratinocytes Monoclonal Antibody Against Keratinocytes - A Possible Therapeutic Adjunct for Cholesteatoma?”. The American Otological Society Annual Meeting. Scottsdale, AZ, 10 May 1997.
- “Revision Stapedectomy”, Allegheny Neuroscience Institute Temporal Bone Microanatomy and Hands-On Dissection Workshop. Pittsburgh, PA, 14 June 1997.
- “Individualizing Hearing Preservation in Acoustic Neuroma Surgery”, Dallas Foundation Temporal Bone Course. Dallas, TX, 13 October 1997.
- “Balance Disorders”, Butler County Medical Society. Butler, PA, 14 October 1997.
- “Balance Disorders”, Jewish Community Center - South Hills Chapter. Pittsburgh, PA, 11 November 1997.
- “Nuevas Aplicaciones de Abordajes Neuro-otologicos”, XXI Congreso Venezolano de Otorrinolaringología. San Cristóbal, Venezuela, 12 November 1997.
- “Desequilibrio y Vértigo en un Centro Multidisciplinario”, XXI Congreso Venezolano de Otorrinolaringología. San Cristóbal, Venezuela, 12 November 1997.
- “Implantes Cocleares” Simposio, XXI Congreso Venezolano de Otorrinolaringología. San Cristóbal, Venezuela, 13 November 1997.
- “Tratamiento Quirúrgico de los Para gangliomas de Oído”, Conferencia Magistral, XXI Congreso Venezolano de Otorrinolaringología. San Cristóbal, Venezuela, 14 November 1997.
- “Mesa Redonda: Mastoidectomias Abierta vs. Cerrada. Ventajas y Desventajas” XXI Congreso Venezolano de Otorrinolaringología. San Cristóbal, Venezuela, 15 November 1997.
- “Parálisis Facial” Simposio, XXI Congreso Venezolano de Otorrinolaringología. San Cristóbal, Venezuela, 15 November 1997.
- “Modern Management of Hearing Loss” Southwest Allegheny County Medical Society. Pittsburgh, PA, 9 December 1997.
- “The Management of the Facial Nerve and Carotid Artery in Difficult Head-Neck Tumors at the Skull Base” Western Section of The Triological Society. San Diego, CA, 11 January 1998.

- “Hearing Results of Intratympanic Steroids in Endolymphatic Hydrops” Eastern Section of the Triological Society. New York, NY, 31 January 1998.
- “Common Disorders: Ears, Nose and Throat”. Presented at Duquesne University Management of the Childbearing-Age Family in Health and Illness Course. Pittsburgh, PA 5 March 1998.
- “Otology and Neuro-otologic Surgery”. OR Inservice. Allegheny University Hospitals - Allegheny General. Pittsburgh, PA, 10 March 1998.
- “Jugular Foramen Surgery”. Joint Latin American/North American Cerebrovascular Skull Base Workshop. Cancun, MX, 18 March 1998.
- “Acoustic Neuroma”. Joint Latin American/North American Cerebrovascular Skull Base Workshop. Cancun, MX, 19 March 1998.
- “Individualizing Acoustic Neuroma Management through a Multidisciplinary Team”. 1998 Acoustic Neuroma Association PA Tri-State Chapter Regional Meeting. Pittsburgh, PA, 4 April, 1998.
- “Individualizing Surgical Approaches in Acoustic Neuroma Surgery”. University of Pittsburgh School of Medicine Alumni Day. Pittsburgh, PA, 1 & 2, May, 1998.
- “Anatomy, Physiology and Differential Diagnosis of Hearing Loss for the Legal Professional”. Medical-Legal Evaluation of Hearing Loss. Hilton Head Island, S.C., 25, June 1998.
- “Cirugía de Neurinoma Acústico con Preservation de Audición”. American Academy of Otolaryngology - Head and Neck Surgery Annual Meeting. San Antonio, TX, 13, September 1998.
- “Expanding Applications of Neurotologic Skull Base Surgery”. University of Texas. Dallas, TX, 2 October, 1998.
- “Avoiding Complications in Revision Chronic Ear Surgery”. University of Texas. Dallas, TX, 2 October 1998.
- “Modern Management of Hearing Loss”. Medical Grand Rounds. Somerset Hospital, Somerset, PA. 7 October 1998.
- “Individualizing Hearing Preservation in Acoustic Neurinoma Surgery”. XXVI Congreso Pan American Congress of Otolaryngology Head and Neck Surgery Meeting. Panama, 11-14, November, 1998.
- “Infracochlear Approach to the Skull Base”. Temporal Bone Course. The House Ear Institute, Los Angeles, CA. January 18, 1999.
- APostoperative Facial Function in Hearing Preservation Acoustic Neuroma Surgery@. Eastern Section of The Triological Society. Providence, RI, January 30, 1999.
- “Common Disorders: Ears, Nose, and Throat”. Presented at Duquesne University Management of the Childbearing - Age Family in Health and Illness Course. Pittsburgh, PA 4, March, 1999.
- “Facial Nerve Paralysis after Acoustic Tumor Surgery: Prognosis and Prevention”. 12th Annual Cherry Blossom Conference: Facial Nerve Update 1999. Arlington, VA, March 27, 1999.
- “Facial Nerve Repair Techniques: Cerebellopontine Angle and Infratemporal Facial Nerve”. 12th Annual Cherry Blossom Conference: Facial Nerve Update 1999. Arlington, VA, March 27, 1999.
- “Evaluation and Treatment of the Dizzy Patient”. Medical Grand Rounds. Somerset Hospital, Somerset, PA. 7 April 1999.
- “Everything you wanted to know about Otitis Media and were afraid to ask? Controversies in Otitis Media”. PSHA Convention. Pittsburgh, PA. 22 April, 1999.

- “Manejo de Vértigo y Desequilibrio en un Centro Multidisciplinario”. V Jornadas Científicas GAES presented by CEIG (Centro de Estudios e Investigación). 10 May, 1999, Barcelona, Spain; 12 May, Bilbao, Spain; 14 May, Sevilla, Spain; 17 May, Madrid; 18 May, Valencia, Spain; 19 May Alicante, Spain.
- “Cirugía de Tumores Acústicos con Preservación de la Audición”. V Jornadas Científicas GAES presented by CEIG (Centro de Estudios e Investigación). 10 May, 1999, Barcelona, Spain; 11 May, Pamplona, Spain; 12 May, Bilbao, Spain; 14 May, Sevilla, Spain; 17 May, Madrid; 18 May, Valencia, Spain; 19 May, Alicante, Spain.
- “Manejo del Nervio Facial en Casos Traumáticos e Iatrogenicos”. V Jornadas Científicas GAES presented by CEIG (Centro de Estudios e Investigación). 10 May, 1999, Barcelona, Spain; 11 May, Pamplona, Spain; 12 May, Bilbao, Spain; 14 May, Sevilla, Spain; 17 May, Madrid; 18 May, Valencia, Spain; 19 May, Alicante, Spain; 20 May Coruña, Spain.
- “Mesa Redonda sobre Implantes Cocleares”. V Jornadas Científicas GAES presented by CEIG (Centro de Estudios e Investigación). 10 May, Barcelona; 12 May, 1999, Bilbao, Spain; 14 May, Sevilla, Spain; 17 May, Madrid; 18 May, Valencia, Spain; 19 May Alicante, Spain; 20 May, Coruña, Spain.
- “Nuevas Aplicaciones de Abordajes Neurologicos”. 13 May, 1999, Córdoba, Spain.
- “Manejo Multidisciplinario de vertigo y desequilibrio”. Real Academia de medicina y Cirugia. La Corona, Spain, 20 May, 1999.
- “Microanatomy of Otologic Operative Techniques”. Allegheny University Hospitals - Allegheny General, Pittsburgh, PA. 4-5, June, 1999.
- Panel Chairman, “Advanced Techniques in Audiologic Diagnosis of Acoustic Neuroma”. Fourth International Congress on Acoustic Neuromas. Rome, Italy 13, June 1999.
- “Relationship of Acoustic Neuromas Volume and Preoperative Hearing”. Fourth International Congress on Acoustic Neuromas. Rome, Italy 13, June 1999.
- “Individualizing Surgical Management of Small Acoustic Neuromas”. Rome, Italy 13, June, 1999.
- “Facial Nerve Repair in Cerebellopontine Angle Tumor Surgery”. Fourth International Congress on Acoustic Neuromas. Rome, Italy 15, June 1999.
- “Facial Function in Hearing Preservation Acoustic Neuroma Surgery”. Pennsylvania Academy of Otolaryngology - Head and Neck Surgery. Hershey, PA 18 June, 1999.
- “Balance Disorders”. Lecture at Health South Monroeville, PA. October 21, 1999.
- Northeastern Ohio Society of Otolaryngology, “Neurotology Principles in General Otolaryngology” and “Management of Iatrogenic Facial Palsy”. October 21, 1999.
- “Advances in Facial Paralysis Management” - Neuroscience General Rounds, Allegheny General Hospital. Pittsburgh, PA, January 26, 2000.
- “Facial Nerve Decompression” - Dallas Foundation of Otology at Baylor University. Dallas, TX, February 2, 2000.
- “Hearing Loss and Health Care in Childbearing Ages”. Duquesne University School of Nursing Common Disorders: Ears, Nose and Throat. Presented at Duquesne University Management of the Childbearing-Age Family in Health and Illness Course. Pittsburgh, PA 2 March, 2000.
- “Hearing Loss and Related Syndromes”. WISC, Pittsburgh, PA March 21, 2000.
- “Jugular Foramen Tumors”. The Southwestern Pennsylvania Chapter American College of Surgeons Annual

- Meeting and Residents Day. Pittsburgh, PA March 29, 2000.
- “Posterior Fossa Surgery”. The Southwestern Pennsylvania Chapter American College of Surgeons Annual Meeting and Residents Day. Pittsburgh, PA March 29, 2000.
- “Modern Management of Hearing Loss”. Southwest Allegheny County Medical Society. Pittsburgh, PA April 11, 2000.
- “Cochlear Implantation”. Lecture North Hills Passavant Hospital. Pittsburgh, PA April 11, 2000.
- “Advanced Considerations in Chronic Ear Surgery”. Lecture Allegheny General Hospital, Pittsburgh, PA April 14, 2000.
- “Facial Nerve Paralysis”. Lecture Allegheny General Hospital, Pittsburgh, PA April 14, 2000.
- “Dizziness”. Lecture at The Washington Hospital’s Scientific Day 2000. Washington Hospital, Washington, PA. May 5, 2000.
- “Manejo del Lesiones del Nervio facial”. XXX Congreso Nacional de Otorrinolaringología y Cirugía de Cabeza y Cuello de la Sociedad Colombiana de Otorrinolaringología y Cirugía de Cabeza y Cuello. San Andrés, Isla., Colombia. May 31 - June 4, 2000.
- “Manejo del Vértigo Paroxístico Benigno”. XXX Congreso Nacional de Otorrinolaringología y Cirugía de Cabeza y Cuello de la Sociedad Colombiana de Otorrinolaringología y Cirugía de Cabeza y Cuello. San Andrés, Isla., Colombia. May 31, 2000
- “Diagnostico y Manejado de Lesiones del Ápex Petroso”. XXX Congreso Nacional de Otorrinolaringología y Cirugía de Cabeza y Cuello de la Sociedad Colombiana de Otorrinolaringología y Cirugía de Cabeza y Cuello. San Andrés, Isla., Colombia. May 31, 2000
- “Cirugía del Foramen Yugular”. XXX Congreso Nacional de Otorrinolaringología y Cirugía de Cabeza y Cuello de la Sociedad Colombiana de Otorrinolaringología y Cirugía de Cabeza y Cuello. San Andrés, Isla., Colombia. May 31, 2000
- “Individualización de Los Abordajes Quirúrgicos en Neurinoma del Acústico”. XXX Congreso Nacional de Otorrinolaringología y Cirugía de Cabeza y Cuello de la Sociedad Colombiana de Otorrinolaringología y Cirugía de Cabeza y Cuello. San Andrés, Isla., Colombia. May 31, 2000
- “Simposio (Astra Zeneca) Almuerzo Incluido”. XXX Congreso Nacional de Otorrinolaringología y Cirugía de Cabeza y Cuello de la Sociedad Colombiana de Otorrinolaringología y Cirugía de Cabeza y Cuello. San Andrés, Isla., Colombia. May 31, 2000
- “Consideraciones Especiales en Cirugía de Oído Crónico”. XXX Congreso Nacional de Otorrinolaringología y Cirugía de Cabeza y Cuello de la Sociedad Colombiana de Otorrinolaringología y Cirugía de Cabeza y Cuello. San Andrés, Isla., Colombia. June 1, 2000
- “Nuevas Tendencias en el Diagnostico y Terapéutica de la Enfermedad de Meniere”. XXX Congreso Nacional de Otorrinolaringología y Cirugía de Cabeza y Cuello de la Sociedad Colombiana de Otorrinolaringología y Cirugía de Cabeza y Cuello. San Andrés, Isla., Colombia. June 1, 2000
- “Nueva Era en Ayudas Auditivas Implantables”. XXX Congreso Nacional de Otorrinolaringología y Cirugía de Cabeza y Cuello de la Sociedad Colombiana de Otorrinolaringología y Cirugía de Cabeza y Cuello. San Andrés, Isla., Colombia. June 2, 2000
- “Facial Nerve Monitoring in Chronic Ear Surgery - the Time Has Come”. Pennsylvania Academy of Otolaryngology Head and Neck Surgery 2000 Meeting. Nemaquin Woodland Resort, Farmington, PA. June 23-24, 2000.
- “Implantable Hearing Devices”. Report by the Subcommittee on Implantable Devices. National Meeting of the American Academy of Otolaryngology - Head and Neck Surgery, Washington, D.C., September 24,

- 2000.
- “Implantable Hearing Aids” - Neuroscience Grand Rounds - Allegheny General Hospital. October 5, 2000.
- “Totally Implantable Hearing Aids”. Grand Rounds- University of Michigan. October 12, 2000.
- “Cholesteatoma Congénito En Oído Medio”. VII Curso Otitis Media y Paralisis Facial. Hospital Juarez, Mexico. November 30, 2000.
- “Manejo De La Otitis Media Crónica. Método Cerrado Vs. Método Abierto”. VII Curso Otitis Media y Paralisis Facial. Hospital Juarez, Mexico. November 30, 2000.
- “Osciculoplastia”. VII Curso Otitis Media y Paralisis Facial. Hospital Juarez, Mexico. November 30, 2000.
- “Protocolo de Estudio y Manejo de la Paralisis Facial de Bell”. VII Curso Otitis Media y Paralisis Facial. Hospital Juarez, Mexico. December 1, 2000.
- “Paralisis Facial Iatrogenica. Causas y Manejo”. VII Curso Otitis Media y Paralisis Facial. Hospital Juarez, Mexico. December 1, 2000.
- “Manejo del Nervio Facial en la Cirugía de la Base de Cráneo”. VII Curso Otitis Media y Paralisis Facial. Hospital Juarez, Mexico. December 1, 2000.
- “El Nervio Facial y Los Tumores del Angulo Pontocerebeloso”. VII Curso Otitis Media y Paralisis Facial. Hospital Juarez, Mexico. December 1, 2000.
- “2001 Hearing Loss Seminar for workers compensation judges”. Department of Labor and Industry Commonwealth of Pennsylvania. Pittsburgh, PA. January 26, 2001
- “Common Hearing Problems”. Duquesne University Nurse Practitioners Course. March 16, 2001.
- “Hearing Preservation with Acoustic Neuroma Surgery”. Advances in Cranial Base Surgery - University of Pittsburgh School of Medicine Center for Continuing Education. Pittsburgh, PA May 5, 2001.
- “Colesteatoma Congenito”. III Congreso Argentino de Otorrinolaringología y Fonoaudiología Pediátrica. Centrol Cultural Bernardino Rivadavia, Argentina. June 8, 2001.
- “Manejo Quirurgico de Mastoiditis Serosa Cronica”. III Congreso Argentino de Otorrinolaringología y Fonoaudiología Pediátrica. Centrol Cultural Bernardino Rivadavia, Argentina. June 8, 2001.
- “Mastoidectomy: Tecnica Abierta vs. Cerrada”. III Congreso Argentino de Otorrinolaringología y Fonoaudiología Pediátrica. Centrol Cultural Bernardino Rivadavia, Argentina. June 9, 2001.
- “Como Evitar y Manejar Complicaciones Del Nervio Facial En Cirugia De Oido Cronico”. III Congreso Argentino de Otorrinolaringología y Fonoaudiología Pediátrica. Centrol Cultural Bernardino Rivadavia, Argentina. June 9, 2001.
- “Audifonos Implantables”. III Congreso Argentino de Otorrinolaringología y Fonoaudiología Pediátrica. Centrol Cultural Bernardino Rivadavia, Argentina. June 9, 2001.
- “Reconstructive Cements in Otologic Surgery” - American Academy of Otolaryngology - Head and Neck Surgery Foundation, Inc. 2001 Annual Meeting. Denver, CO, September 11, 2001.
- “Long Term Results - Hydroxyapatite Cranioplasty in Acoustic Neuroma” - American Academy of Otolaryngology - Head and Neck Surgery Foundation, Inc. 2001 Annual Meeting. Denver, CO, September 12, 2001.
- “Vertigo Metodos Basicos y Avanzados” - American Academy of Otolaryngology - Head and Neck Surgery Foundation, Inc. 2001 Annual Meeting. Denver, CO, September 12, 2001.

- “Como Evitar Dano al Nervio Facial en Cirugia de Oido Cronico”. XXI Congreso Nacional de Otorrinolaringologia del Centro Medico La Raza, Mexico. February 14, 2002.
- “Curso Teorico de Implantes Cocleares”. XXI Congreso Nacional de Otorrinolaringologia del Centro Medico La Raza, Ixtapa,Zijuatanejo, Mexico.. February 15, 2002.
- “Mesa Adonda de Oido Cronico”. XXI Congreso Nacional de Otorrinolaringologia del Centro Medico La Raza, Ixtapa,Zijuatanejo, Mexico. February 16, 2002.
- “Considerations in Hearing Restoration”. Texas Association of Otolaryngology - Head and Neck Surgery Annual Meeting. Dallas, Texas. April 20, 2002.
- “Neuro-Otology in General Otolaryngology”. Texas Association of Otolaryngology - Head and Neck Surgery Annual Meeting. Dallas, Texas. April 20, 2002.
- “Implantable Hearing Aids - Future Directions” - American Neurotology Society Fall Meeting, San Diego, CA. September 22, 2002.
- “Conocimiento del hueso temporal en tres Dimensiones para entender abordajes neuro-otologicas” Curso Teorico Practico de Otologia PEMEX, Mexico DF, December 5, 2002.
- “Como evitar y tratar paralisisfacial iatrogenica en cirugia del oido”, Curso Teorico Practico de Otologia PEMEX, Mexico DF, December 5, 2002.
- “Meso de discusion coordinada sobre paralisis facial”, Curso Teorico Practico de Otologia PEMEX, Mexico DF, December 5, 2002.
- “Descompresion microvascular para sintomas del VIII par”, Curso Teorico Practico de Otologia PEMEX, Mexico DF, December 5, 2002.
- “Laberintectomia parcial con preservacion de la audicion en otonuerocirugia”, Curso Teorico Practico de Otologia PEMEX, Mexico DF, December 5, 2002.
- “Mesa de discusion coordinada sobre Aotoesclerosis”, Curso Teorico Practico de Otologia PEMEX, Mexico DF, December 6, 2002.
- “Resultados auditivos utilizando esteroides Transtimpanicos”, Curso Teorico Practico de Otologia PEMEX, Mexico DF, December 6, 2002.
- “Aplicaciones de cementos en cirugia otologica”, Curso Teorico Practico de Otologia PEMEX, Mexico DF, December 6, 2002.
- “Experiencias con el nuevo audifono totalmente implantable Envoy”, Curso Teorico Practico de Otologia PEMEX, Mexico DF, December 6, 2002.
- “Transtympanic Steroids in Meniere’s Disease, Do They Really improve Hearing?” Hillman T, Arriaga MA, Chen DA. Eastern Section of the Triological Society, Boston MA, January 2003.
- “Hydroxyapatite Cement in Acoustic Neuroma Surgery.” Hillman T, Arriaga MA, Chen DA. North American Skull Base Society Annual Meeting, February 2003.
- “Transtympanic Therapies for Neuro-otologic Disease”. Allegheny General Hospital Neuroscience Grand Rounds, April 2003.
- “Implantable Hearing Aids”. Pennsylvania American Academy of Otology – Head and Neck Surgery Annual Scientific Meeting, Pittsburgh, PA, June 20 – 21, 2003.
- “The Role of Cements in Otologic Surgery”. Symposium: “Current Trends in Otology: A US Perspective”

- Carolina Ear Research Institute, Helsinki Finland, August 16, 2003.
- “Implantable Hearing Devices: Bone Anchored and Middle Ear Devices”. Symposium: “Current Trends in Otology: A US Perspective” Carolina Ear Research Institute, Helsinki Finland, August 16, 2003.
- Vertigo – Metodos Basicos y Avanzados” - American Academy of Otolaryngology – Head and Neck Surgery Annual Meeting, September 22, 2003.
- “Reconstructive Cements in Otologic Surgery” - American Academy of Otolaryngology – Head and Neck Surgery – 2003 Annual Meeting, Orlando, Florida, September 23, 2003.
- “Hearing Preservation in Partial Labyrinthectomy” – III Triological Congress of Otorhinolaryngology, Rio de Janeiro, Brazil, October 9, 2003.
- “Treatment of Sensori-neural Deep Dysacusia with Transcanal Amplication”, III Triological Congress of Otorhinolaryngology, Rio de Janeiro, Brazil, October 9, 2003.
- “Results Achieved with Envoy (Totally Implantable Hearing Prosthesis)”, III Triological Congress of Otorhinolaryngology, Rio de Janeiro, Brazil, October 10, 2003.
- “Hearing Results in the Treatment of Meniere’s Disease; section of the Vestibular Nerve or Transtympanic Gentamicin”, October 10, 2003.
- “Individualizing Management of Acoustic Neuroma”, Otology Update course, University of California at San Francisco, November 14, 2003.
- “Cements in Otology”, Otology Update course, University of California at San Francisco, November 14, 2003.
- “Historia de la cirugía de la base del cráneo y de los tumores glómicos”. Diagnostico y Tratamiento De Los Tumores Glomicos De Cabeza Y Cuello, IMSS Instituto Mexicano Del Seguro Social, Mexico, March 17, 2004.
- “Evaluación preoperatoria y clasificación de los tumores glómicos”. Diagnostico y Tratamiento De Los tumores Glomicos De Cabeza Y Cuello, IMSS Instituto Mexicano Del Seguro Social, Mexico, March 17, 2004.
- “Las tres dimensiones de los abordajes neuro-otológicos”. Diagnostico y Tratamiento De Los tumores Glomicos De Cabeza Y Cuello, IMSS Instituto Mexicano Del Seguro Social, Mexico, March 17, 2004.
- “Conceptos claves neuroquirúrgicos en la cirugía de la base del cráneo”. Diagnostico y Tratamiento De Los tumores Glomicos De Cabeza Y Cuello, IMSS Instituto Mexicano Del Seguro Social, Mexico, March 18, 2004.
- “Abordajes quirúrgicos de los tumores glómicos”. Diagnostico y Tratamiento De Los tumores Glomicos De Cabeza Y Cuello, IMSS Instituto Mexicano Del Seguro Social, Mexico, March 18, 2004.
- “Consideraciones vasculares en la cirugía de la base del cráneo”. Diagnostico y Tratamiento De Los tumores Glomicos De Cabeza Y Cuello, IMSS Instituto Mexicano Del Seguro Social, Mexico, March 18, 2004.
- “El nervio facial en la cirugía neuro-otológica”. Diagnostico y Tratamiento De Los tumores Glomicos De Cabeza Y Cuello, IMSS Instituto Mexicano Del Seguro Social, Mexico, March 18, 2004.
- “Abordaje Infratemporal tipo “A” de Fisch (Video)” Diagnostico y Tratamiento De Los tumores Glomicos De Cabeza Y Cuello, IMSS Instituto Mexicano Del Seguro Social, Mexico, March 18, 2004.
- “Reconstrucción de la base del cráneo con cemento de hidroxapatita”. Diagnostico y Tratamiento De Los tumores Glomicos De Cabeza Y Cuello, IMSS Instituto Mexicano Del Seguro Social, Mexico, March 19, 2004.
- “Manejo de los nervios craneanos en la cirugía de la base del cráneo”. Diagnostico y Tratamiento De Los

- tumores Glomicos De Cabeza Y Cuello, IMSS Instituto Mexicano Del Seguro Social, Mexico, March 19, 2004.
- Resultados, complicaciones y futuro de la cirugía de los tumores glómicos”. Diagnostico y Tratamiento De Los tumores Glomicos De Cabeza Y Cuello, IMSS Instituto Mexicano Del Seguro Social, Mexico, March 19, 2004.
- “Advances in Hearing Restoration”, University of Pittsburgh Medical Center’s Center for Continuing Education in the Health Sciences, North Hill’s Passavant Hospital, Pittsburgh, PA, April 13, 2004.
- “New Horizons in Hearing Restoration”, Central PA Society of Otolaryngology, Hershey, PA, October 20, 2004.
216. “Rethinking Vestibular Testing”, Visiting Professor and Grand Rounds, Milton S. Hershey Medical Center, Hershey, PA, October 21, 2004
- “Treatment of Meniere’s Disease”. Eastern Section of the Triological Meeting. Washington, DC, January 29, 2005.
- “Transtympanic Dexamethasone in Cochlear Hydrops”. 5<sup>th</sup> International Symposium Meniere’s Disease and Inner Homeostasis Disorders, House Ear Institute, Los Angeles, CA, April 2-5, 2005.
- “Hydroxyapatite Cement Cranioplasty in Acoustic Neuroma Surgery – An Update” – American Neurotology Society, Boca Raton Resort and Club, Boca Raton, FL May 14, 2005.
- “Enhanced Hearing in Heat Activated Crimping Stapes Prosthesis Stapedectomy” American Otological Society, Boca Raton Resort and Club, Boca Raton, FL May 15, 2005.
- “Nuevas Horizontes en Restauracion Auditiva”. Conferencia de Otologia y Laringologia Fundacion Santa Pe de Bogota. Bogota, Colombia, August 25, 2005.
- “Cirugia de Vertigo”. Conferencia de Otologia y Laringologia Fundacion Santa Pe de Bogota. Bogota, Colombia, August, 26, 2005.
- “Neurinomas del Acustico”. Conferencia de Otologia y Laringologia Fundacion Santa Pe de Bogota. Bogota, Colombia, August 26, 2005.
- “Otosclerosis Nueva Protesis”. Curso Internacional de Actualizacion en otologic laringologia. Bogota, Columbia, August 26, 2006.
- “Colesteatoma Congenito”. Curso Internacional de Actualizacion en otologic laringologia. Bogota, Columbia, August 27, 2006.
- “Cual Abordaje en Cirugia Del Nuerinoma Del Acustico”. Curso Internacional de Actualizacion en otologic laringologia. Bogota, Columbia, August 27, 2006.
- “Casos Clinicos Basicos y Avanzados”. Curso Internacional de Actualizacion en otologic laringologia. Bogota, Columbia, August 27, 2006.
- “Vertigo Metodos Basicos y Avanzados”. American Academy of Otolaryngology Head and Neck Surgery National Meeting. September 26, 2005, Los Angeles, CA.
- “Cements in Otology”. American Academy of Otolaryngology – Head and Neck Surgery National Meeting. September 27, 2005.
- “Diagnostico de Vertigo”. Simposio del Instituto Auditivo de Argentinin. Bueros Aires, Argentina. November 4, 2005.
- “Tratamicinto de la Enfermdad de Meniere’s”. Simposio del Instituto Auditivo de Argentina. Bueros Aires, Argentina.

- “Envoy – Un Audiford Totalmente Implantable “ Congreso 58° Anjuersario de la Federacion Argentina de Sociedades de Otorrinolaringologia Mar del Plata, Argentina, November 19, 2005.
- “Tratamientos Transtimpanicos de Vertigo y Audicion”. Congreso 58° Anjuersario de la Federacion Argentina de Sociedades de Otorrinolaringologia Mar del Plata, Argentina, November 19, 2005.
- “Nevrinomas del Acustico 2005”. Congreso 58 Aniuersario de la federacion argentina de sociedades de otorrinolaringologia mar del plata, Argentina, November 20, 2005.
- “Como evitar y manejar paralasis del nervio facial en cirugio del oido cronicamente infectado”. Congreso 58 Aniuersio de la federacion argentina de sociedades de otorrinolaringologia mar del plata, Argentina, Novmeber 20, 2005.
- “El papel de Prevebas rotational versus ENG en el diagnostico de vertigo Periferico. Congreso 58 Anjuersario de la Federacion Argentina de sociedades de otorrinolaringologia mar del Plata, Argentina, November 21, 2005.
- “Cirugia de Vertigo”. Congreso 58 Anjuersario de la Federacion argentina de sociedades de Otorrinolaryngologia Mar del Plata, Argentina. November 21, 2005.
- “VVOR – A Diagnostic Tool for Migraine Vestibulopathy”. The Southern Section of The American Laryngological, Rhinological and Otological Society, Inc. Naples, FL, January 13, 2006.
- Panel: Practical Otology – The Southern Section of The American Laryngological, Rhinological and Otological Society, Inc. Naples, FL, January 13, 2006.
- “Advances en el diagnostico y Manejo del Vertigo y Mareo”. XXI Congreso Centroamericano de Otorrinolaryngologia y Cirugia de Cabeza y Cuello, La Ceiba, Atlantida, Honduras, C.A. February 8, 2006.
- “Tratamiento de la Enfermedad de Meniere”. XXI Congreso Centroamericano de Otorrinolaryngologia y Cirugia de Cabeza y Cuello, La Ceiba, Atlantida, Honduras, C.A. February 9, 2006.
- “Neurinoma del Acustico”. XXI Congreso Centroamericano de Otorrinolaryngologia y Cirugia de Cabeza y Cuello, La Ceiba, Atlantida, Honduras, C.A. February 10, 2006.
- “Complicaciones vasculares de cirugia otologica y base de craneo”. Curso Internacional Urgencias y Complicaciones en Otorrinolaringologia, Mexico. February 17, 2006.
- “Complicaciones quirugicas del oido cronicamente infectado”. Curso Internacional Urgencias y Complicaciones en Otorrinolaringologia, Mexico. February 17, 2006.
- “Cirugia del vertigo. Curso Internacional Urgencias y Complicaciones en Otorrinolaringologia, Mexico. February 18, 2006.
- “Lesiones de cadena oscicular”. Curso Internacional Urgencias y Complicaciones en Otorrinolaringologia, Mexico. February 18, 2006.
- “Facial Nerve Management” Louisiana State University Department of Otology Grand Rounds, April 29, 2006.
- “Rotational Chair Testing in the 21<sup>st</sup> Century”. St. Louis, MO. May 5, 2006.
- “Manejo del Nervio Facial en Cirugia del Oido,” Congreso XVII SOCMNO (Sociedad de Otorrinlaringologia del Centro Medico National Occidente, Puerto Vallarata, 8 September 2006.
- “Neurinoma del Acustico y el ORL General,” Congreso XVII SOCMNO (Sociedad de Otorrinlaringologia del Centro Medico National Occidente, Puerto Vallarata, 8 September 2006.

- “Manejo del Vertigo Moderno,” Congreso XVII SOCMNO (Sociedad de Otorrinolaringología del Centro Médico Nacional Occidente, Puerto Vallarta, 8 September 2006.
- “Manejo Quirúrgico del Vertigo”, 18th Congress of The Sociedad de Otorrinolaringología del Centro Médico Nacional, Puerto Vallarta, Mexico, 13-15, September, 2007.
- “Concepto actual de los Audífonos Implantables”, 18th Congress of The Sociedad de Otorrinolaringología del Centro Médico Nacional, Puerto Vallarta, Mexico, 13-15, September, 2007.
- “Lesiones del Apex Petroso”, 18th Congress of The Sociedad de Otorrinolaringología del Centro Médico Nacional, Puerto Vallarta, Mexico, 13-15, September, 2007.
- “Cirugía de Vertigo”, LVIII Congreso Nacional de la Sociedad Mexicana de Otorrinolaringología y Cirugía de Cabeza y Cuello, Cancun, Mexico, 4 May, 2008.
- “Diseción de Hueso Temporal”, LVIII Congreso Nacional de la Sociedad Mexicana de Otorrinolaringología y Cirugía de Cabeza y Cuello, Cancun, Mexico, 4 May, 2008.
- “Estado Actual del Diagnóstico y Tratamiento del Vertigo”, LVIII Congreso Nacional de la Sociedad Mexicana de Otorrinolaringología y Cirugía de Cabeza y Cuello, Cancun, Mexico, 4 May, 2008.
- “Manejo Quirúrgico del Nervio Facial”, LVIII Congreso Nacional de la Sociedad Mexicana de Otorrinolaringología y Cirugía de Cabeza y Cuello, Cancun, Mexico, 4 May, 2008.
- “Complicaciones de la Cirugía de Oído Crónicamente Infechado”, LVIII Congreso Nacional de la Sociedad Mexicana de Otorrinolaringología y Cirugía de Cabeza y Cuello, Cancun, Mexico, 4 May, 2008.
- Panel Discussion: “Challenges in Acoustic Neuroma Management”. North American Skull Base Society and The World Federation of Skull Base Society Annual Meeting, Vancouver, BC, September 11, 2008.
- “Gadolinium Induced Nephrogenic induced Fibrosis in Skull Base Injuries”. North American Skull Base Society and The World Federation of Skull Base Society Annual Meeting, Vancouver, BC, September 11, 2008.
- “Taller de Baha”. V Triológico III Reunión De La Sociedad Venezolana. Con La Academia Americana y I Reunión Con La Sociedad Española De Otorrinolaringología Y Cirugía De Cabeza Y Cuello. Caracas, Venezuela, October 31, 2008.
- “Terapias Transtimpánicas en enfermedades Neurotológicas”. V Triológico III Reunión De La Sociedad Venezolana. Con La Academia Americana y I Reunión Con La Sociedad Española De Otorrinolaringología Y Cirugía De Cabeza Y Cuello. Caracas, Venezuela, October 31, 2008.
- “Conceptos claves Neuroquirúrgicas en la Cirugía de Base de Cráneo”. V Triológico III Reunión De La Sociedad Venezolana. Con La Academia Americana y I Reunión Con La Sociedad Española De Otorrinolaringología Y Cirugía De Cabeza Y Cuello. Caracas, Venezuela, November 1, 2008.
- “Acoustic Neuroma – Options and Outcomes 2009”. 4th International Otology Conference and Workshop. Al-Adan Hospital, Kuwait, March 5, 2009.
- “Balance and Vertigo Diagnostic Treatment Advances”. 4th International Otology Conference and Workshop. Al-Adan Hospital, Kuwait, March 6, 2009.
- “Cements and Nitinol in Middle Ear and Skull Base Surgery”. 4th International Otology Conference and Workshop. Al-Adan Hospital, Kuwait, March 7, 2009.
- “Acoustic Tumor Observation and Failure to Follow-up”. Co-presenter: American Academy of Otolaryngology-Head and Neck Surgery Foundation, 2009 Annual Meeting, San Diego, CA, October 7, 2009.
- “Applicability of the Pittsburgh Staging System for Advanced Cutaneous Malignancy of the Temporal Bone”.

Abstract accepted for presentation at the Skull Base Meeting, New Orleans, LA, October, 2009.

"Telemedicine as a Resource for Restricted Physician Manpower". Physician Manpower MiniSeminar, AAO-HNS National Meeting, San Diego, CA, October 5, 2009.

"Emerging Technologies and Hearing Aids: Implantable Devices". Hearing Aids MiniSeminar, AAO-HNS National Meeting, San Diego, CA, October 5, 2009.

"Telemedicine – Enhanced Neurotology Skull Base Program in Post Katrina Louisiana". Co-Presented at North American Skull Base Society Meeting, New Orleans, LA October 16, 2009.

"Cirugia Vestibular." Sociedad de Otorrinolaringologia y Audiologia del Centro Mexico Nacional (3ª. Reunión), Puebla, Mexico, January 22 - 23, 2010.

"Telemedicina en Otologia." Sociedad de Otorrinolaringologia y Audiologia del Centro Mexico Nacional (3ª. Reunión), Puebla, Mexico, January 22 - 23, 2010.

"Audifonos implantables." Sociedad de Otorrinolaringologia y Audiologia del Centro Mexico Nacional (3ª. Reunión), Puebla, Mexico, January 22 - 23, 2010.

#### POSTER PRESENTATIONS

"Ploidy and Size Distribution of Cultured Human Megakaryocyte. Interrelationship Between Mitosis and Endomitosis"- Annual Meeting, American Federation of Clinical Research. Washington, D.C., May 5-7, 1986.

"Squamous Cell Carcinoma of the External Auditory Canal" -Annual Meeting, American Academy of Otolaryngology Head and Neck Surgery. Chicago, Illinois, 19-23, 1987.

"Ectopic Thyroid in the Retroesophageal Superior Mediastinum" - Annual Meeting, American Academy of Otolaryngology- Head and Neck Surgery. Chicago, Illinois, September 19-23, 1987.

"Pediatric Airway Obstruction From a Transplant Associated Malignancy" - Annual Meeting, American Society of Pediatric Otolaryngology. Charleston, South Carolina, April 20-23, 1988.

"Parotid Duct Communicating with a Labial Pit and Ectopic Salivary Cyst" - Annual Meeting, American Society of Pediatric Otolaryngology. San Diego, California, May, 1989.

"The Role of Preoperative CT Scans in Staging External Auditory Meatus Carcinoma - A Radiological-Pathological Correlation Study" - Annual Meeting, American Academy of Otolaryngology-Head and Neck Surgery. New Orleans, Louisiana, September 24-28, 1989.

"Preoperative SPGR MRI in Surgical Planning for Petrous Apex Cholesterol Granuloma," Edgar Boyd, MD; Moises Arriaga, MD; and Richard Kulznick, MD. Annual Meeting of the North American Skull Base Society. Saddleback, Arizona, February, 1993.

"Bondy Modified Radical Mastoidectomy in Osteoradionecrosis of the Temporal Bone," Joe Wiseman, MD and Moises Arriaga, MD. Annual Meeting of the American Academy of Otolaryngology- Head and Neck Surgery. San Diego, CA, September, 1994.

"Actinomycosis Infection of a Petrous Apex Epidermoidmasquerading as an Invasive Skull Base Tumor," Randall OW, MD and Moises Arriaga, MD. Annual Meeting of the American Academy of Otolaryngology - Head and Neck Surgery. New Orleans, LA, September, 1995.

"Anatomic Basis for an Enhanced Retrosigmoid Approach with Posterior Semicircular Canal Resection," Moises Arriaga MD and Michael Gorum MD. Congress of Neurological Surgeons Annual Meeting. San Francisco, CA, October 14, 1995.

Techniques of Cochlear Implantation in Far Advanced Otosclerosis@, Randy Ow, MD and Moises Arriaga, MD. Annual Meeting of American Academy of Otolaryngology - Head and Neck Surgery. Washington, DC, September 29 - October 2, 1996.

Dural Venous Sinuses in Chronic Otitis Media, Moisés A. Arriaga, MD and Douglas A. Chen, MD. Centennial Meeting of The Triological Society. Scottsdale, AZ, May 12-13, 1997.

The Role of Computerized Tomography in Evaluating Temporal Bone Fractures@. American Academy of Otolaryngology. San Antonio, TX, September 13 - 16, 1998.

“Visual-Vestibular Hypersensitivity Syndrome Identified with VVOR Rotational Chair Testing”, Arriaga MA, Chen DA, Cenci KC. Presented at The Triological Society 2004 Southern/Middle Section Meeting. Marco Island, FL. January 8 – January 11, 2004.

“Does ECOG Predict Hearing After Endolymphatic Sac Surgery”. Lacour J, Pero C, Arriaga MA. Poster Presentation, AAO-HNS National Meeting, San Diego, CA , October 2-4, 2009.

### COURSE DIRECTOR

Temporal Bone Dissection Course San Antonio, TX

Date	Guest Instructor
February 6-8, 1992	Antonio De La Cruz
March 19-20, 1993	Donald Kameron
March 18-19, 1994	John McElveen
February 23-25, 1995	Derald Brackmann and Antonio De La Cruz
September 6-7, 1998	

Head and Neck Surgery and Reconstruction Course

February 3-4, 1994	Eugene Myers (Guest Instructor)
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Otitis Media Practical Workshop, San Antonio, TX

July 27-28, 1994	Sylvan Stool (Guest Instructor)
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Allegheny Neuroscience Institute Temporal Bone Dissection Course (Co-Director)

April 26-28, 1996  
October 25-26, 1996  
June 12-14, 1997  
October 10-12, 1997  
October 16-17, 1998  
June 4-5, 1999  
October 21-22, 1999  
April 14-15, 2000  
June 22-23, 2001  
June 26-27, 2002  
April 25-26, 2003  
June 20-21, 2003  
October 24-25, 2003  
April 16-17, 2004  
October 29-30, 2004  
April 28-29, 2006  
June 23-24, 2006  
October 27-28, 2006  
April 13-14, 2007

June 22-23, 2007  
October 26-27, 2007  
April 11-12, 2008  
April 24-25, 2009  
June 12-13, 2009

Medicolegal Assessment of Hearing Loss (Co-Director)  
June 25-27, 1998 Allegheny University Hospitals held in Hilton Head, South Carolina

Hearing and Balance Disorders in Primary Care  
November 11, 1999 Allegheny General Hospital, Pittsburgh, PA

Louisiana State University Residents Course at Allegheny General Hospital  
May 6-7, 2006 and 2007

Louisiana State University – Health Science Center Temporal Bone Dissection Course, New Orleans, LA

<u>Date</u>	<u>Guest Instructor</u>
November 22, 2009	Fred Owens

#### COURSE INSTRUCTOR

Colegio de Médicos y Cirujanos, Hospital Nacional de Niños, San José, Costa Rica. Latin America Otitis Media Research and Training Group Seminar and Workshop. January 20-23, 1989.

Simposio de Infecciones Severas, Guadalajara, Mexico Latin America Otitis Media Research and Training Group Seminar and Workshop. January 24-26, 1989.

Curso de Infecciones en Niños del Ministerio de Salud de Chiapas; Tuxtla Gutiérrez, Chiapas, Mexico. Latin America Otitis Media Research and Training Group Seminar and Workshop. January 10-14, 1990.

Surgical Dissection Course, House Ear Institute Los Angeles, California. April 8-10, 1992.

Jornadas de Pediatría de la Asociación de Médicos del Hospital Infantil de Mexico y la Universidad Autónoma del Edo. de Hidalgo, Pachuca, Hgo, Mexico. Latin America Otitis Media Research and Training Group Seminar and Workshop. November 18, 1992.

Curso de Otitis Media de la Asociación de Pediatras de Culiacán, Mexico. Latin America Otitis Media Research and Training Group Seminar and Workshop. January 18, 1993.

Dallas Foundation of Otology, Surgical Dissection of the Temporal Bone Course. Dallas, Texas, January 24-26, 1993

Dallas Foundation of Otology, Surgical Dissection of the Temporal Bone Course Dallas, Texas. February 28 -March 3, 1993.

Dallas Foundation of Otology, Surgical Dissection of the Temporal Bone Course Dallas, Texas. August 31 - September 2, 1993.

Neurosurgery and Neurology Update for Primary Care Physicians, Emory University School of Medicine, Atlanta, Georgia. December 10-11, 1993.

Curso de Otitis Media de la Asociación de Pediatras de Yucatán, Mérida, Mexico. Latin America Otitis Media Research and Training Group Seminar and Workshop. January 17, 1994.

Dallas Foundation of Otology, Surgical Dissection of the Temporal Bone Course, Dallas, Texas. January 23-25,

1994.

House Ear Institute, Temporal Bone Dissection Course, Los Angeles, CA. June 8-9, 1994.

Dallas Foundation of Otolaryngology, Temporal Bone Dissection Course, Dallas, Texas. September 6-7, 1994.

Taller Practico Sobre la Otitis Media, Latin American Otitis Media Training Group Seminar and Workshop, San Cristobal, Tachira, Venezuela S.A. October 30-31, 1994.

Taller Practico Sobre La Otitis Media, Latin American Otitis Media Training Group Seminar and Workshop, Morelia, Michoacán, Mexico. January 15-16, 1995.

Dallas Foundation of Otolaryngology, Temporal Bone Dissection Course, Baylor University Medical School. January 29-31, 1995.

Mayo Clinic Temporal Bone Anatomy Course, Rochester, Minnesota. February 10-11, 1995.

Carolina Ear Institute Temporal Bone Dissection Course, Raleigh, North Carolina. May 18-20, 1995.

Dallas Foundation of Otolaryngology, Temporal Bone Dissection Course, Baylor University Medical School, Dallas, Texas. January 28-29, 1996.

Dallas Foundation of Otolaryngology, Baylor University Medical School, Dallas, Texas. August 31 - September 1, 1996.

Allegheny Neuroscience Institute Temporal Bone Microanatomy and Hands-On Dissection Workshop, Allegheny General Hospital, Pittsburgh, PA. June 12-14, 1997.

Dallas Foundation of Otolaryngology, Temporal Bone Dissection Course, Dallas, Texas. October 1 -5, 1997.

Temporal Bone Surgical Dissection Course, House Ear Institute, Los Angeles, CA. October 13, 1997.

American Academy of Otolaryngology, "Hearing Preservation Acoustic Neuroma Surgery", San Antonio, Texas. September 13, 1998.

American Academy of Otolaryngology, "Management of Iatrogenic Facial Paralysis", San Antonio, TX. September 14, 1998.

Temporal Bone Surgical Dissection Course, House Ear Institute, Los Angeles, CA. January 18, 1999.

Dallas Foundation of Otolaryngology, "Cirugía de Tumores Acusticos", Dallas, Texas. 14 March, 1999.

Temporal Bone Course, Allegheny General Hospital, Pittsburgh, PA . October 21, 1999

Hearing and Balance Disorders in Primary Care, Allegheny General Hospital, Pittsburgh, November 11, 1999.

"Vertigo: Medicos Basicos y Avanzados". American Academy of Otolaryngology - Head and Neck Surgery. Washington, DC. September 24, 2000.

"Update on Implantable Middle Ear Hearing Devices". American Academy of Otolaryngology - Head and Neck Surgery. Washington, DC. September 25, 2000.

"Prevention and Management of Iatrogenic Facial Nerve Injury". Temporal Bone Dissection Course University of Michigan. October 11, 2000.

"The Difficult Chronic Ear". Temporal Bone Dissection Course University of Michigan. October 12, 2000.

"Descompressao do Saco Endolinfático vs. Seccao do Nervo." CUF Congresso de ORL, Lisbon, Portugal. October 27, 2000.

“Diagnostico Gama Knife vs. Cirugía”. CUF Congresso de ORL, Lisbon, Portugal. October 27, 2000.

“Vias de Abordagem Qual escolher Preservacao da Audicao”. CUF Congresso de ORL, Lisbon, Portugal. October 27, 2000.

“Cirugía da Vertigo” CUF Congresso de ORL, Lisbon, Portugal. October 27, 2000.

“Facial Nerve Paralysis”. 10<sup>th</sup> Annual Temporal Bone Surgical Dissection Course. Wilford Hall Medical Center, Lackland AFB, San Antonio, TX. February 2, 2001.

“Chronic Ear Surgery”. Temporal Bone Dissection Course Allegheny General Hospital. June 22, 2001

“Individualizing Acoustic Neuroma Surgery”. Temporal Bone Dissection Course Allegheny General Hospital, Pittsburgh, PA. June 23, 2001.

“Surgery for the Difficult Chronic Ear”. 10<sup>th</sup> Annual Temporal Bone Surgical Dissection Course. Wilford Hall Medical Center, Lackland AFB, San Antonio, TX. February 2, 2001.

“Cements in Otology”. American Academy of Otolaryngology - Head and Neck Surgery, San Diego, CA, September, 2002.

“Vertigo-Metodos Basicos y Avanzados”. American Academy of Otolaryngology - Head and Neck Surgery, San Diego, CA. September, 2002.

“Chronic Ear Surgery”. Temporal Bone Dissection Course, Allegheny General Hospital, Pittsburgh, PA . October 29, 2004.

“New Horizons in Hearing Restoration”. Temporal Bone Dissection Course, Allegheny General Hospital, Pittsburgh, PA. October 30, 2004.

“Advances in Implantable Hearing Aid Technology”, Hands-on Hearing and Balance Workshop. American Academy of Otolaryngology-Head and Neck Society/ANS, Chicago, IL, September 20, 2008.

“Petrous Bone Anatomy for Middle Cranial Fossa and Anterior Petrosal Approaches”, Microscopic and Endoscopic Approaches for Skull Base Surgery Course, Allegheny General Hospital, Pittsburgh, PA, October 11, 2008.

Otology Didactic Lectures, Louisiana State University, Pittsburgh, PA Baton Rouge, LA New Orleans, LA Lafayette, LA, Weekly 2006 – Present.

#### VISITING PROFESSOR/INVITED GUEST

Emory University, Neurosurgical Grand Rounds, Atlanta, Georgia. December 9, 1993.

Mayo Clinic Jacksonville, Otolaryngology Grand Rounds, “Expanding Applications of Neurologic Skull Base Surgery” Jacksonville, Florida. April 23, 1994.

University of Mississippi, Otolaryngology Grand Rounds, “Indications and Applications of Cochlear Implants” Jackson, Mississippi. June 3, 1994.

Mayo Clinic, Otology Grand Rounds, “Decisions in Chronic Otitis Media”. June 9, 1995.

Organization of Puerto Rican Audiologists and Speech Pathologists, Annual Meeting, Humacao Puerto Rico, 1995.

University of Colorado Department of Otolaryngology Grand Rounds, Expanding Applications of Neurologic Cranial Base Surgery, Denver, Colorado. November 30, 1995.

XXI Congreso Venezolano de Otorrinolaringología. San Cristóbal, Venezuela. 12-15, November, 1997.

University of Texas Southwestern Medical School. Dallas, TX. 1 - 2, October, 1998.

Real Academia de Medicina y Cirugía, “Manejo Multidisciplinario de vértigo y desequilibrio”. La Corona, Spain, 20 May, 1999.

Invited Guest of Honor - XXX Congreso Nacional de Otorrinolaringología y Cirugía de Cabeza y Cuello del la Sociedad Colombiana de Otorrinolaringología y Cirugía de Cabeza y Cuello, San Adres, Isla, Columbia May 31 - June 4, 2000.

Grand Grounds - University of Michigan “Totally Implantable Hearing Aids”. October 12, 2000.

Invited Foreign Speaker - XXI Congreso Nacional de Otorrinolaringologia del Centro Medico La Raza. Ixtapa, Zijuatanejo, Mexico, February 14 - 17, 2002.

Invited Foreign Speaker - Curso Teorico Practico de Otologia, Mexico DF, Mexico December 4 - 7, 2002.

Invited International Speaker – III Triological Congress of Otorhinolaringology. Rio de Janeiro, Brazil, October 9-10, 2003.

Invited Foreign Speaker – Instituto Mexicano de Seguros Social, DIAGNOSTICO Y TRATAMIENTO DE LOS TUMORES GLOMICOS DE CABEZA Y CUELLO, Hospital Sigio XXI, Mexico City, March 17 – 20, 2003.

“Descompresion Microvascular”. Invited International Lecturer, Pan American Society of Otolaryngology Meeting, Guatemala City, Guatemala, November 5, 2004.

“Euital y Manejar Dano al Nervio Facial” - Invited International Lecturer, Pan American Society of Otolaryngology Meeting, Guatemala City, Guatemala, November 5, 2004.

“Silla Rotatoria vs ENG en el Diagnostico de vertigo”. Invited International Lecturer, Pan American Society of Otolaryngology Meeting, Guatemala City, Guatemala, November 5, 2004.

“Manejo de Atresia Congenita” – Round Table Discussion - Invited International Lecturer, Pan American Society of Otolaryngology Meeting, Guatemala City, Guatemala, November 5, 2004.

“Cirugía Oído Crónico”. Mesa Discusion. Invited International Speaker. Congreso Nacional de la Sociedad Mexicana de Otorrinolaringolocia Cirugia de Cabeza y Cuello, A.C. LV Congreso Nacional SMORL Y CCC. Mexico, May 1, 2005.

“Como Evitar y Manejar Parálisis del Nervio Facial en Cirugía del Oído”. Invited International Speaker. Congreso Nacional de la Sociedad Mexicana de Otorrinolaringolocia Cirugia de Cabeza y Cuello, A.C. LV Congreso Nacional SMORL Y CCC. Mexico, May 2, 2005

“Tratamientos Transtimpanicos de Audición y Vértigo”. Invited International Speaker, Congreso Nacional de la Sociedad Mexicana de Otorrinolaringolocia Cirugia de Cabeza y Cuello, A.C. LV Congreso Nacional SMORL Y CCC. Mexico, May 3, 2005.

“Neurinomas del Acústico 2005”. Invited International Speaker, Congreso Nacional de la Sociedad Mexicana de Otorrinolaringolocia Cirugia de Cabeza y Cuello, A.C. LV Congreso Nacional SMORL Y CCC. Mexico, May 3, 2005.

“Controversias en Cirugía del Nervio Facial. Mesa Discusion. Invited International Speaker, Congreso Nacional de la Sociedad Mexicana de Otorrinolaringolocia Cirugia de Cabeza y Cuello, A.C. LV Congreso Nacional SMORL Y CCC. Mexico, May 3, 2005.

Manejo Quirúrgico Otitis Media Cronica. Mesa Discusion. Invited International Speaker, Congreso Nacional de la Sociedad Mexicana de Otorrinolaringolocia Cirugia de Cabeza y Cuello, A.C. LV Congreso Nacional SMORL Y CCC . Mexico, May 3, 2005.

- “Tres Dimensiones de Abordajes Neurootologicos”. Curso Internacional de Actualizacion en otologia laringologia, Bogota, Columbia. August 25, 2005.
- “Cirugia del Vertigo”. Curso Internacional de Actualizacion en otologia laringologia, Bogota, Columbia. August 25, 2005.
- “Nuevos Horizontes en la Rehabilitacion Auditiva”. Curso Internacional de Actualizacion en otologia laringologia, Bogota, Columbia. August 25, 2005.
- “Otoesclerosis Nueva Protesis”. Curso Internacional de Actualizacion en otologia laringologia, Bogota, Columbia. August 26, 2005.
- “Colesteatoma Congenito”. Curso Internacional de Actualizacion en otologia laringologia, Bogota, Columbia. August 27, 2005.
- “Cual Abordaje en Cirugia Del Neurinoma Del Acustico”. Curso Internacional de Actualizacion en otologia laringologia, Bogota, Columbia. August 27, 2005.
- “Casos Clinicos Basicos y Avanzados”. Curso Internacional de Actualizacion en otologia laringologia, Bogota, Columbia. August 27, 2005.
- “Avances en el diagnostico y Manejo del Vertigo y Mareo.” Invited Speaker, XXI Congresso Centroamericano de Otorrinolaryngologia y Cirugia de Cabeza y Cuello, La Ceiba, Atlantida, Honduras C.A. February 8, 2006.
- “Tratamiento de la Enfermedad de Meniere”. Invited Speaker, XXI Congresso Centroamericano de Otorrinolaryngologia y Cirugia de Cabeza y Cuello, La Ceiba, Atlantida, Honduras C.A. February 9, 2006.
- “Neurinoma del Acustico”. Invited Speaker, XXI Congresso Centroamericano de Otorrinolaryngologia y Cirugia de Cabeza y Cuello, La Ceiba, Atlantida, Honduras C.A. February 10, 2006.
- “Complicaciones vasculares de cirugia otologica y base de craneo”. Curso Internacional Urgencias y Complicaciones en Otorrinolaryngologia, Mexico. February 17, 2006.
- Round Table: “Complicaciones quirurgicas del oido cronicamente infectado”. Curso Internacional Urgencias y Complicaciones en Otorrinolaryngologia, Mexico. February 17, 2006.
- “Cirugia del vertigo”. Curso Internacional Urgencias y Complicaciones en Otorrinolaryngologia, Mexico. February 18, 2006.
- “Lesiones de cadena oscicular”. Curso Internacional Urgencias y Complicaciones en Otorrinolaryngologia, Mexico. February 18, 2006.
- “Rotational Chair Testing in the 21<sup>st</sup> Century”. Invited Speaker. St. Louis, MO. May 5, 2006.
- “Rotational Chair in Peripheral Vestibulopathy and Migraine”. Grand Rounds, Cleveland Clinic. October 6, 2006.
- “Vertigo: Gentamicin Versus Nerve Section Versus Sac Decompression”. International Meeting of Otolaryngology and Phono Audiology Joint Meeting of American Academy of Otolaryngology and Federation of Argentine Societies of Otolaryngology in Rosario, Argentina. August 2, 2007.
- Round Table: “Cochlear Implantation Modern Strategies”. International Meeting of Otolaryngology and Phono Audiology Joint Meeting of American Academy of Otolaryngology and Federation of Argentine Societies of Otolaryngology in Rosario, Argentina. August 2-3, 2007.
- “Experience with Totally Implantable Hearing Aid – Envoy”. International Meeting of Otolaryngology and Phono

Audiology Joint Meeting of American Academy of Otolaryngology and Federation of Argentine Societies of Otolaryngology in Rosario, Argentina. August 3, 2007.

Round Table: "Vertigo: Gentamicin Versus Nerve Section Versus Sac Decompression". International Meeting of Otolaryngology and Phono Audiology Joint Meeting of American Academy of Otolaryngology and Federation of Argentine Societies of Otolaryngology in Rosario, Argentina. August 3, 2007.

Invited International Speaker, Sociedad de Otorrinolaringología del Centro Médico del Occidente XVII Congress, Puerto Vallarta, September 2006, 2007, 2008, 2009.

Invited International Speaker, Sociedad de Otorrinolaringología y Audiología del Centro México Nacional (3ª. Reunión), Puebla, Mexico, January 22 - 23, 2010.