

CURRICULUM VITA

Anthony Thomas Cacace

WORK ADDRESS:

Department of Communication Sciences and Disorders
Wayne State University
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EDUCATION:

- Ph.D. 1988 Syracuse University, Syracuse, New York.
 Major: Communication Sciences and Disorders/Audiology.
 Minor: Neuroscience
- Dissertation: *"Some Poststimulatory Effects in the Acoustic Stapedius Reflex: Monotic and Dichotic Stimulation"*.
- Advisor: Professor Robert H. Margolis, Ph.D.
- Committee: Distinguished Professor Jozef J. Zwislocki, Sc.D.
 Professor Robert H. Margolis, Ph.D.
 Professor Robert L. Smith, Ph.D.
 Professor Christopher W. Turner, Ph.D.
 Professor Edward G. Conture, Ph.D.
 Professor Evan R. Relkin, Ph.D. (deceased)
- Postdoctoral Fellowship Department, Dec. 1985 June 1987 Neurophysiology, The Wadsworth Center, NYS Health Central Nervous System Study Section.
 Sponsor: Jonathan R. Wolpaw, M.D.
- M.S. 1975 Syracuse University, Syracuse, New York.
 Major: Audiology.
- B.S. 1974 State University of New York at New Paltz, New Paltz, New York
 Major: Speech Pathology/Audiology.

PROFESSIONAL EXPERIENCE:

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| August 2007-present | Full Professor with tenure. Department of Communication Sciences & Disorders, Wayne State University, Detroit, Michigan. |
| July 2003-August 2007 | The Neurosciences Institute and Advanced Imaging Research Center, Department of Neurology, Albany Medical College, Albany, New York, 12208 |
| December 1985-2003 | Director of Oto-neurological Research, Division of Otolaryngology, Albany Medical College, Albany, New York. |
| July 1993-June 2003 | Associate Professor with Tenure, Department of Surgery, Division of Otolaryngology, Albany Medical College, Albany, New York, 12208. |
| June 1987-1994 | Director Audiology, Albany Medical Center Hospital. |
| December 1985 | Assistant Professor, Department of Surgery (Otolaryngology), Albany Medical College, Albany, New York |
| September 1982- November 1985 | Graduate Research Assistant, Hearing Science Laboratory and Clinical Supervisor (Audiology), Gebbie Speech and Hearing Clinic, Syracuse University, Syracuse, New York. |
| March 1978-June 1982 December 1985-present York. | Lecturer in Education, College of St. Rose, Department of Communication Disorders, Albany, New York. |
| November 1977- June 1982 | Audiologist-Coordinator, Hearing Rehabilitation Center, Albany Medical Center Hospital, Albany, New York. |
| September 1977-1982 | Consultant in Audiology, August 1982 Berkshire Ears, Nose, and Throat Associations. Pittsfield, Mass. |
| July 1976-August 1982 | Staff Audiologist, Albany Medical Center Hospital |

Albany, New York.

September 1975- Fellowship (Audiology), Albany Medical Center Hospital,
August 1976 Albany, New York.

PROFESSIONAL ORGANIZATIONS:

Association for Research in Otolaryngology

American Academy of Audiology

The American Auditory Society

GRANTS AND AWARDS:

Honors Colloquium, Research Apprenticeship Award, School of Education, Syracuse University 1983, "*Mechanisms of Loudness Summation Assessed by Absolute Magnitude Estimation and Loudness Balancing Procedures*".

Senate Research Committee Grant, Syracuse University, 1984, "*Some Poststimulatory Effects on the Acoustic Stapedius Reflex: Monotic and Dichotic Stimulation*", \$1,000.00, (Supported by NIH Grant BSRG S07 RR077068-20).

National Institutes of Health Grant (NIH NS19891), "*Electrophysiologic Evaluation of Human Auditory Cortex*", with Jonathan Wolpaw, M.D., Principal Investigator, \$187,000.

Senate Research Committee Grant, Syracuse University. "*High-Risk and Hearing Impaired Infant Cry Vocalization Patterns*", with John Saxman, Ph.D., Principal Investigator, and Michael P. Robb, Ph.D., \$10,000.

National Institutes of Health. SBIR Grant, Phase I, "*Compact Fiber Optic Holographic Probe for Otolaryngology*", with James Castracane, Ph.D., Principal Investigator and Steven M. Parnes, M.D., Anthony T. Cacace, Ph.D., consultants, \$50,000.00.

American Tinnitus Association. "*Neuroanatomical Localization of Subjective Tinnitus: A Functional MRI and Psychophysical Study*", Anthony T. Cacace, Ph.D., and Joseph Cousins, Ph.D., Co-principal investigator (\$10,400, June 1994-May 1995).

New York State Health Department, "*A Regional Evaluation of Universal Hearing Screening*" Joaquim Pinhero, M.D., Department of Pediatrics and Anthony T. Cacace, Ph.D., Co-principal investigators, (~\$240,000, to begin September 1995, 3 year award).

Faculty Research Award, SUNY Albany, "Neurological Effects of PCBs in Elderly Workers" Richard F. Seegal, Principal investigator, New York State Health Department, 1997, Anthony T. Cacace, Ph.D., collaborator in human electrophysiology (\$10,000.00).

• **Editor's Award**, 1998, American Speech, Language and Hearing Association, *Journal of Speech, Language, and Hearing Research, Section on Hearing*. Awarded November 19, 1999.

Cacace, A.T., and McFarland, M.D. Central auditory processing disorder in school-aged children: A critical review. *J. Speech Lang. Hear. Res.*, 41, 355-373 (1998).

American Tinnitus Association, "Testing the Release from Inhibition Hypothesis of Noise-Induced Tinnitus: A Magnetic Resonance Spectroscopy Study of Auditory Cortex", \$70,000, July 2005-December, 2006.

Vicor, Inc., "Objective assessment of nonlinear heartbeat dynamics as a method to predict cognitive decline," \$27,410, January 2006-December 2006.

Tinnitus Research Initiative, "Structural and neurobiochemical correlates of noise-induced tinnitus: A magnetic resonance imaging and spectroscopy study," \$80,000, July 2007-June 2009.

Tinnitus Research Consortium, "Mechanisms of tinnitus suppression using repetitive transcranial magnetic stimulation: A prospective randomized sham-controlled proton magnetic resonance spectroscopy study." \$177, 918.00, 2007-2009.

College of Liberal Arts and Sciences, Wayne State University, Omnibus Grant 2010, Department of Communication Sciences & Disorders; Title: A Multimedia, Statistical and Graphics Workstation for Graduate Students and Faculty in Communication Sciences & Disorders," Anthony T. Cacace, Ph.D., P.I., \$4,999.99.

Veteran's Administration, "Vestibular consequences of minimal traumatic brain injury." PI: Faith Aikin, Ph.D., \$906,000.00.
Co-I: Anthony T. Cacace, Ph.D., E. Mark Haacke, Ph.D., and others
January 2011 - January 2014 (extended ~1 yr).

College of Liberal Arts and Sciences, Wayne State University, Omnibus Grant 2012, Department of Communication Sciences & Disorders; Title: In situ calibration instrumentation for audiology. Anthony T. Cacace, Ph.D., P.I. \$16,590.58

Department of Defense, "Parallel human and animal models of blast and concussion-induced tinnitus and related traumatic brain injury (TBI).
Co-PIs: Anthony T. Cacace, Ph.D., Jinsheng Zhang, Ph.D., \$1,500,000.00, March 2011-February 2014.

National Institutes of Health, SBIR; “Targeted neural plasticity for the treatment of tinnitus.” Co-PIs: Brent Tarver, Richard Tyler, Ph.D. MicroTransponder, Inc., Houston, Tx; Department of Otolaryngology, University of Iowa, Iowa City, IA; Co-Is: Anthony T. Cacace, Ph.D.; Christine Stocking, AuD; Michael Kilgard, Ph.D., November 2013, October 2015. \$334,846.17 (Sub-contract to Wayne State University)

Veteran’s Administration, Merit Review Award to Avril Gene Holt, Wayne State University, Department of Anatomy and Cell Biology, “Development of Effective Strategies for Tinnitus Diagnosis and Treatment;” Total amount: \$1,099,805; October 2013-September, 2017. Anthony T. Cacace, Ph.D., consultant/collaborator.

College of Liberal Arts and Sciences, Wayne State University, Omnibus Grant 2013, Department of Communication Sciences & Disorders; Title: A Real-Life Hearing Simulator for Use in Testing Neonates and Infants. Anthony T. Cacace, Ph.D., P.I. \$9,025.86

College of Liberal Arts and Sciences, Wayne State University, Omnibus Grant 2014, Department of Communication Sciences & Disorders; Title: Instrumentation for vestibular head impulse testing (vHIT) to assess semicircular canal physiology with the vestibular ocular reflex (VOR). Anthony T. Cacace, Ph.D., P.I. \$16,231.96

National Institutes of Health, R21, Novel Theranostic Approaches to Identify and Treat Tinnitus Using Functionalized Nanoparticles, College of Nanoscale Science and Engineering, University at Albany, Albany, NY, Magnus Berqvist, PI; James Castracane, Co-I, in collaboration with, Anthony T. Cacace, Co-I, Gene Holt, Co-I, Wayne State University (Total cost, WSU \$141,805.00. Start date Nov. 2014, End date Oct 31, 2016, in progress.

College of Liberal Arts and Sciences, Wayne State University, Omnibus Grant 2015, Department of Communication Sciences & Disorders; Title: Minishaker (Exciter) for oVEMP Elicitation in Evaluating Utricular Function in Humans. Anthony T. Cacace, Ph.D., P.I. \$6482.15.

Department of Veterans Affairs, Rehabilitation Research & Development, Merit Review Award, The Effects of Noise on Vestibular System Function, James H. Quillen VA Medical Center, Faith Wurm Akin (contact) and Averil Gene Holt (Co-PI’s); in collaboration with Anthony T. Cacace, Co-I, Wayne State University; Richard Altschuler and Michael King, Co-I’s, University of Michigan. 4 years, direct costs: \$1,481,211.00. Proposed start date April 2016, end date March 2020.

College of Liberal Arts and Sciences, Wayne State University, Omnibus Grant 2016, Department of Communication Sciences & Disorders; Title: The GaitRite System for Evaluating Gait and Balance Systems in Humans. Anthony T. Cacace, Ph.D., P.I. \$32,495.00.

SEMINARS TAUGHT AT WAYNE STATE UNIVERSITY

Biomedical Engineering (BME 7720); Neurovascular Imaging Course (BME 7720), Professor E. Mark Haacke, instructor. Lecture Title: Tinnitus: a primer on basic concepts and advanced imaging techniques in humans (October 28, 2015).

TBI summer school, entitled: "*Imaging and Neuroscience of TBI*", June 3-28, 2013.

Course director: E. Mark Haacke, Ph.D.

Section director: Mathew Galloway, Ph.D.

Lecture: Anthony T. Cacace, Ph.D., *Neurobiochemical and psychometric correlates of noise-induced tinnitus following rTMS over the left temporal lobe in humans*"

FELLOWSHIPS

Fellow, American Academy of Audiology, March 1991.

Fellow, American Speech, Language, and Hearing Association. Elected, June 1997.

COMMUNITY SERVICE:

Board of Directors, Helping Hands Speech, Language and Hearing Clinic, 1986-1992.

Chairman, Board of Directors, June 1988-1992; Active board member, 1993-2007.

Secretary, Board of Directors, December 2002-2005.

Member, Board of Directors, Detroit Medical Center, Lion's Hearing Club.

September 2007-2014.

JOURNAL AND EXTRAMURAL GRANT REVIEWER:

Electroencephalography and Clinical Neurophysiology (now Clinical Neurophysiology),

1988-present.

Hearing Research, 1995-present.

Acoustical Society of America, 1996-present.

Journal of Speech, Language and Hearing Research, 1996-present.

Journal of the Association for Research in Otolaryngology, 2013-present.

American Journal of Audiology, 1998-present

Ear and Hearing, 1998-present.

Veteran's Administration Merit Review Grants, 1998-present.

Journal of Neurophysiology, 1999-present.

Tinnitus Research Consortium, grant reviewer, 1999-2013.

National Institutes of Health, Scientific Review Council, ad-hoc reviewer SBIR Grants, Integrative, Functional and Cognitive Neurosciences, 1999-present.

Audiology and Neuro-otology, 2000-present.

American Tinnitus Association, Ad hoc grant reviewer, September 2000-present.

Royal National Institute for Deaf People, United Kingdom, ad-hoc grant reviewer, 2001-present.

Hearing Loss Guideline Panel, Early Intervention Program, New York State Department of Health, ad hoc peer reviewer. July, 2001.

International Journal of Audiology, 2002-present.

Netherlands Organization for Health Research and Development (ZonMw), 2006.

National Institutes of Health, Emerging Technologies and Training in Neurosciences (ETTN) Small Business Innovative Research (SBIR) Study Section, July 2009-present.

Hong Kong Education Institute, 2010-present

Office of Naval Research, FY2012, Noise Induced Hearing Loss Peer Review.

Journal of Neural Plasticity, 2013-present.

New Zealand Neurological Society, 2013-present.

Congressionally Directed Medical Research Program, 2010-present.

Wayne State University Research Grants, Biology Section 2016-present.

Annals of Neurology, 2016-present.

COMMENTATOR:

Behavioral and Brain Sciences, 1998-present.

EDITORIAL POSITIONS:

Assistant Editor for Hearing Science, Journal of the American Academy of Audiology, January 1999-2006.

Associate Editor, American Journal of Audiology, November 2002-December 2005.

Editor-In-Chief, American Journal of Audiology, January 2006-December 2008.

Associate Editor, American Academy of Audiology, January 2012-December 2013.

Associate Editor, American Journal of Audiology, January 2012-December 2015.

EDITORIAL BOARDS:

Speech, Language, and Hearing, Manley Publishing, 2013-2014.

GRANT REVIEWS:

National Institutes of Health, Center for Scientific Review. Clinical Neurophysiology, devices, Auditory devices and Neuroprosthesis Small Business Innovation Research grants. (ZRG1 ETTN-K (10). June 5-6, 2009, Ritz-Carlton Hotel, Washington, D.C.

National Institutes of Health, Center for Scientific Review. Clinical Neurophysiology, devices, Auditory devices and Neuroprosthesis Small Business Innovation Research grants. (ZRG1 ETTN-K (10). November 1-2, 2009, Mayflower Hotel, Seattle Washington.

American Institute of Biology, review of Congressionally Direct Medical Research Program Department of Defense Grants, 2009-present.

American Institute of Biology, review of grants for Office of Naval Research, 2011.

Committee on Research and Development, The Hong Kong Institute of Education, Research Grants Council's General Research Fund (GRF), 2010-present.

Office of Naval Research, FY2012, Noise Induced Hearing Loss Peer Review, 2011-SBIR.

NIH phone review single grant, ad hoc reviewer. (2012).

NIH ETTN SBIR, February 21-22, 2013, Washington, DC.

DoD, phone review single grant ad hoc reviewer. September 9, 2013.

NIH ETTN SBIR, October 24-25, 2013, Washington, DC.

Department of Defense, CDMRP Clinical Trial Awards, December 5-6, 2013, Baltimore, MD.

NIH ETTN SBIR, February 26, 2014, San Antonio, Tx.

Department of Defense, CDMRP, April 2-4, 2014, Baltimore, MD.

NIH SBIR Study Section, ZRG1 ETTN-G (12) B, Small Business: Aging and Development, Auditory, Vision and Low Vision Technologies. Chevy chase Maryland, March 10-11, 2016.

STATE, NATIONAL, INTERNATIONAL MEETING CHAIR POSITIONS

Co-chair for Audiology, Annual Meeting of the American Speech, Language, and Hearing Association, Philadelphia, Pa, November 2010.

Chair, Association Research Conference, American Academy of Audiology, Chicago, Ill., April 2011, *Current Trends in the Evaluation and Treatment of Tinnitus*.

SUPERVISED RESEARCH FOR RESIDENTS IN OTOLARYNGOLOGY:

1986-1987 Philip W. Perlman, M.D., "Recording Electrode Placement in Evoked Electromyography". Presented at The Annual Resident Research Seminar/Alumni Day, Albany Medical Center Hospital, May 16, 1987. **First Place Award.**

1986-1987 Richard S. Hill, M.D., "Magnitude Estimation of Loudness: Application to Hearing Aid Selection". Presented at The Annual Resident Research Seminar/Alumni Day, Albany Medical Center Hospital, May 16, 1987.

1987-1988 Adam M. Shapiro, M.D., "Hypocalcemia and Sensorineural Hearing Loss". Presented at The Annual Resident Research Seminar/Alumni Day, Albany Medical Center Hospital, May 14, 1988. **First Place Award.**

- 1988-1989 Adam M. Shapiro, M.D., "*Sensorineural Hearing Loss and Temporary Threshold Shifts in a Macaque Monkey Model of Calcitonin Induced Hypocalcemia*". Presented at The Annual Resident Research Seminar/Alumni Day, Albany Medical Center Hospital, May 6, 1989. **First Place Award.**
- 1989-1990 Eric T. Waterman, M.D., "*Swallowing Disorders in a Population of Children with Cerebral Palsy*," with Peter Koltai, M.D. **Second Place Award.**
- 1990-1991 William A. McClelland, M.D. "*The Relationship of Calcium and Cochlear Function in Patient's Undergoing Parathyroidectomy and Total Thyroidectomy*".
- 1991-1992 William A. McClelland, M.D. "*Post-Operative Sensori-neural Hearing Loss in Thyroidectomy and Parathyroidectomy Patients*". **Second Place Award.**
- 1992-1993 William A. McClelland, M.D. "*Diurnal Variations of Distortion Product Otoacoustic Emissions in Normal Hearing Adults*". **First Place Award.**
- 1992-1993 Axay Kalathia, M.D. "*Brainstem Evoked Audiometry in Multiple Birth Neonates*".
- 1994-1994 Luis Marmol, M.D. "*The Use of Otoacoustic Emissions in the Evaluation of Patients with Suspected Perilymphatic Fistula and Early Meniere's Disease*". **Second Place Award.**
- 1995-1996 Lawrence Kaufman, M.D. "*Theoretical Considerations for Hearing Augmentation in Infants*".
- 1996-1997 John Schweinfurth, M.D. "*Development of an Animal Model for Sudden Sensorineural Hearing Loss*". **First Place Award.**
- 1997-1998 Andrew Chuma, M.D. "*Acoustic voice features following tonsillectomy and adenoidectomy*". **Second Place Award.**
- Recipient of Charles F. Ferguson Clinical Research Award, American Society for Pediatric Otolaryngology, 1998.**
- 1997-1998 Heidi Heras, M.D. "Magnetic Resonance Spectroscopy for Head and Neck Cancer". **First Place Award.**

**MEDICAL STUDENT INDEPENDENT STUDY IN
OTOLARYNGOLOGY RESEARCH:**

Thesis Committee (1991), re: Robert Strominger, for MD with distinction in research. Thesis title, "*The Spatial Localization of Olivocochlear Neurons in Old World Monkey and Great Ape.*"

October 18-November 19, 1993, Jordan Seth Weiner, 4th year student. Diurnal suppression effects of distortion product otoacoustic emissions. Accepted for residency in Otolaryngology, Mayo Clinic, Rochester, Minnesota.

September 1997-January 1997, Rami Batniji, "Spatial filtering enhances the T-complex over the lateral surface of the temporal lobe".

ALBANY MEDICAL COLLEGE/HOSPITAL COMMITTEES:

Committee on Research, Department of Surgery 1991-2007.

Technology Committee, Albany Medical Center Hospital. January 1996-2001.

**SUPERVISED CAPSTONE RESEARCH PROJECTS FOR AuD STUDENTS IN
COMMUNICATION SCIENCES & DISORDERS, WAYNE STATE UNIVERSITY**

Michelle S. Carpenter and Marty J. Mahoney. (2009; joint project). Reliability of broadband middle ear power reflects in young and older adults.

Two national presentations and two publications resulted from this capstone project:

Mahoney, M. J., Carpenter, M., McFarland, D.J., and Cacace, A. T. Reliability of middle-ear power reflectance measures in young and old adults. Annual Meeting of the American Auditory Society, March 5, 2010, Scottsdale, Az.

Carpenter, M., Mahoney, M.J., and Cacace, A.T. Age, gender and ear effects of broadband middle-ear power reflectance in adults. Annual Meeting of the American Auditory Society, March 5, 2010, Scottsdale, Az.

Carpenter, M. S., Cacace, A.T., and Mahoney, M.J. Missing links in some curious auditory phenomena: a tale from the middle ear. J. Amer Acad. Audiol. 23: 106-114 (2012).

Mahoney, M. J., McFarland, D. J., Carpenter, M. S., Rizvi, S., Cacace, A. T. Reliability of broadband middle-ear power-reflectance measures in younger and older adults: Application of Generalizability Theory. *Amer. J. Audiol.* 22, 241-251 (2013).

Krista Frick. (2009). Build-up of contralateral olivocochlear efferent suppression is asymmetric and uncorrelated with the Words-in-Noise Test.

One national and one regional presentation resulted from this capstone project.

Frick, K., and Cacace, A. T. Build-up of olivocochlear efferent suppression is asymmetric and uncorrelated with the Words-in-Noise Test. Presented at the 50th Anniversary International Symposium, Kresge Hearing Research Institute, University of Michigan, Ann Arbor, "*Pathology of the Inner Ear: Mechanisms and Treatments*, October 14-15, 2010.

Frick, K, and Cacace, A. T. Contralateral olivocochlear efferent suppression is asymmetric and uncorrelated with the Words-in-Noise Test. Annual Meeting of the American Auditory Society, March 3-5, 2011, Scottsdale, Az. Publication (in preparation).

Lauren McCaulley. (2009). Jandrassik and other oral facial maneuvers facilitate vestibular evoked myogenic potential (VEMP) amplitude. Paper presentation: Annual Meeting of the American Balance Society, March 7, 2012, Scottsdale, Az. McCauley, L., Cacace, A.T. Jendrassik maneuver and other aural facial maneuvers facilitates *c*VEMP amplitude.

One publication resulted from this capstone project:

McCauley- Roberts, L., Cacace, A.T. Jendrassik maneuver facilitates *c*VEMP amplitude: Some preliminary observations. *J. Amer. Acad. Audiol.* (2014, In press).

Angela Lawfield. (2009). Dichotic and dichoptic digit perception in normal adults.

One publication resulted from this capstone project:

Lawfield, A., McFarland, D. J., and Cacace, A. T. Dichotic and dichoptic digit perception in normal adults. *J. Amer. Acad. Audiol.* 22: 332-341 (2011).

Chantale W. Pirouet (2010). Bilingualism: It's effect on speech perception and speech recognition.

Mahsa Mosstachimi-Tehran (2010). The effectiveness in audiologic reporting: A preliminary report of findings (in collaboration with Virginia Ramachandran and other staff at Henry Ford Hospital, Detroit, MI).

One publication resulted from this project (In collaboration with Henry Ford Hospital,

Departments of Otolaryngology and Audiology, Detroit, MI).

Ramachandran, V., Lewis, J. D., Mosstaghimi-Tehrani, M., Stach, B. A., and Yaremchuk, KL. Communication outcomes in audiologic reporting. J. Am. Acad. Audiol. 22: 231-41.

Sabahet F. Rizvi. (2010). Broad band middle ear power reflectance in adults. Effects of age, gender ear and frequency and their reliability. Data analysis of tonal stimuli.

Kristin Kowalski. (2010). Treating tinnitus with electroacupuncture. In collaboration with JinSheng Zhang (Wayne State University) and Michael Seidman, and Beth Kohn-Converse) (Henry Ford Hospital).

Elaine Hallett. (2010). Risk of hearing loss in university jazz band musicians.

Paige Pirozynski. (2010). Dichotic and dichoptic central masking tests: Initial results and the effects of learning.

Virginia Ramachandran. (2010). Effects of virtual motion on speech perception in normal listeners. Poster presented at the Annual Meeting of the American Auditory Society,

March 5, 2010, Scottsdale, Az. Ramachandran, V., and Cacace, A.T. Effects of virtual motion on speech perception in normal listeners.

Christine F. Rodolfo (2011). Hearing knowledge questionnaire.

Jamie N. Lewis (2011). Development of analogous dichotic and dichoptic digit tests of central masking.

Kelly Wright (2011). Knowledge of assistive listening devices in hotels.

Kelli DeVlieger (2011). Decision factors in hearing aid manufacturer selection.

Katie L. Anderson and Lydsay K. Bobak (2011; joint project). A comparison of amplitude, latency, threshold and growth functions of cervical and ocular vestibular evoked myogenic potentials.

Jumana Salamy (2011). Relationship between Type II diabetes and tinnitus: A

comprehensive case study. Second Place Award, Graduate School Research Day, Wayne State University. Paper in preparation for publication.

Joel E. Valesquez. (2012). Effects of noise induced hearing loss and tinnitus on spatial memory in older adults: Some preliminary observations.

Shaleta Havard. (2012). Clinical application of magnitude estimation functions in normal hearing adults.

Christine Ouillette. (2012). Establishing the tinnitus/epilepsy connection. Paper presented at The 7th International TRI Conference on Tinnitus, Tinnitus: A Treatable Disease, May 15-18, 2013, Valencia, Spain with A.G. Holt and A. T. Cacace. Paper submitted for publication.

Stacey Braund. (2012). Effects of contralateral acoustic stimulation on cVEMP latency and amplitude.

Serafina Romano (2012). Comparison of the tinnitus handicap inventory following various acoustic treatments: A query of the American Tinnitus Association database.

Amber Tennant and Maureen Streeter (2012; joint project). Development of a quantitative auditory and visual speech-in-noise assessment tool for evaluating psychometric and real world performance. Poster presented at the Graduate School Research Day, Wayne State University, 2013.

Katie Golub (2013). Gender Differences in the Development of Language and Speech Perception in Cochlear Implanted Children.

Lindsay Smith (2013). The Hearing Aid Effect in a Simulated Job Interview.

Melissa Pozios and Robbie Michels (2013; joint project). A prospective study on the prevention of hearing loss through hearing conservation and parental awareness: Assessment of elementary, middle, and high school aged children.

Poster presented at the National Hearing Conservation society, March 2014, Las Vegas, NV.

Rachel DeLuca and Claire Miller, Cochlear Implant Effect, 2017.

Erin Luther and Shelby Swafford, Hearing Aid Verification, 2017.

Rachel Wiebrecht and Kacy Hooten, The decision to Wear Hearing Protection, 2017.

Sonya Bowers and Lauren Copus, How Prepared are Teachers for Students with Hearing Impairment, 2017.

Lauren Kassa and Stephanie Palazzolo, Quantification of cVEMP force using a Dynamometer, 2017.

DISSERTATION COMMITTEES:

Dissertation Committee member (July, 2002), re: Samuel Reyes, M.D./Ph.D., Center for Hearing and deafness, SUNY Buffalo, Dr. Richard Salvi, mentor, "Multimodal Steady State Responses," (successfully completed, July 2002).

Dissertation Committee member, Ching I Lu, Dr. Margaret Greenwald, faculty mentor, Wayne State University, (Successfully completed, August 2012).

Dissertation Committee member, Katherine Maheras, Center for Molecular Medicine and Genetics, Wayne State University School of Medicine, Dr. Alex Gow, faculty mentor. Dissertation defense successfully completed spring 2015.

Chair, Dissertation Committee, Sabahet Rizvi (in progress).

WAYNE STATE UNIVERSITY COMMITTEES AND EVENTS:

Poster judge, Graduate School Exposition, March 19, 2013.

Reviewer: Outstanding Paper by a WSU Postdoc Scholar Award, Wayne State University school of Medicine, Kelly Bosse, Vice-Chair of WSU Postdoctoral Association, Research Associate, Wayne State University School of Medicine, Department of Neurosurgery

Paper title: Applications of Polymer Micelles for Imaging and Drug Delivery

Author: Sara Movassaghian

Committee Member, academic year 2016-2017. Office of the Academic Senate, University Grants Committee, “Biological Sciences Subcommittee” for the University Research Grant Committee.

Committee for Distinction in the Basic Sciences for medical students, Wayne State University School of Medicine: 2017

Prospectus title: *Elucidating the Neurobiological Underpinnings of Hyperacusis and Its Relationship to Tinnitus using a Proposed Graded Deafferentation Model?*

Committee members: Dr. Anthony T. Cacace
Dr. Jinsheng Zhang
Dr. Gene Holt

NATIONAL COMMITTEES:

Program Advisory Committee, Association for Research in Otolaryngology, March 1993-1996.

Scientific Advisory Committee, American Tinnitus Association, March 2001-2012.

Chairman, Scientific Advisory Committee, July 2008-June 2012.

Committee on Noise Induced Hearing Loss and Tinnitus in Veterans from WWII to Present, Medical Institute, National Academy of Sciences, May 2004-August 2005.

Council-of-Editors, American Speech, Language and Hearing Association, January 2005-December 2008.

Annual Meeting of the American Academy of Audiology, 2008 Research Pods and Posters Committee, Charlotte, NC.

Annual Meeting of the American Speech, Language, and Hearing Association 2008 Convention Program Committee. Chicago, Ill., “Research Issues Across the Discipline.”

Scientific and Professional Education Board, American Speech, Language and Hearing Association, January 2008-December 2010.

Invited Committee Member, International State-of-the-Science Meeting on Blast-Induced Tinnitus, Department of Defense, Westfield’s Marriott, Chantilly, VA, November 15-16, 2011. Sponsored by DoD Blast Injury Research Program Coordinating Office, US Army Medical Research and Material Command.

Committee member on Auditory Processing Disorders and Aging (Neural Presbycusis), American Academy of Audiology, Larry Humes, Ph.D., Chair, 2009-2012.

Committee member, Scientific Advisory Committee, Tinnitus Research Initiative, June 2015, Ann Arbor, Michigan.

Symposia Chair:

American Academy of Audiology Research Conference (ARC) 2011, organized and chaired by Dr. Cacace, “Current Trends in the Evaluation and Treatment of Tinnitus,” AudiologyNOW! Chicago, IL.

The presenters and topics:

Keynote: Overview of the Pathophysiology of Tinnitus - James Kaltenbach, Ph.D.,

Cleveland Clinic

Human Brain Imaging and Animal Models of Tinnitus - Richard Salvi, Ph.D.,
University at Buffalo

Imaging Brain Function in People with Tinnitus - Jennifer Melcher, Ph.D.,
Massachusetts Eye & Ear Infirmary, Harvard University

Hyperacusis - Craig Formby, Ph.D., University of Alabama

Tinnitus: Psychological Distress and Treatment - Laurence McKenna, Ph.D.,
Royal National Throat, Nose and Ear Hospital, London, England

Sound Therapies: Basis, Implementation and Outcomes – Grant Searchfield,
Ph.D., University of Auckland, New Zealand

Tinnitus Therapies: From Bedside to Bench and Back Again - Carol Bauer, M.D.,
Southern Illinois University School of Medicine Poster presentations will be
available.

Association for Research in Otolaryngology, 2013, “Manganese Enhanced MRI (MEMRI): Advantages for Functional Imaging.” Co-chairs: Avril Genevieve Holt, Ph.D. and Anthony T. Cacace, Ph.D.

Speakers:

Bruce Berkowitz, Wayne State University, “Seeing in the dark: MEMRI in the retina”

Alan Koretsky, National Institutes of Health, “Detecting Laminar Specific Neural Plasticity in the Rodent Brain with MEMRI.”

Dan Sanes, New York University, “Mapping sound evoked activity in the mouse auditory brainstem and cortex with MEMRI under conditions of normal and abnormal development.”

Dietmar Basta, Charité Medical School, Berlin, Germany.

“Noise induced hearing loss and activation of central auditory pathways.”

Robia Paultler, Baylor College of Medicine, “MEMRI to longitudinally track in vivo changes in axonal transport rates in mouse models of Alzheimer's Disease.”

Anthony T. Cacace, Wayne State University, “New approaches for studying tinnitus: bridging the gap between basic science and current clinical concerns.”

Avril Gene Holt, Wayne State University, “In vivo identification of hyperactive neural activity in rats with behavioral evidence of tinnitus using MEMRI.”

James Castracane, College of Nanoscale Science and Engineering, University at Albany, “Biofabricated manganese encapsulated nanoparticles: Novel theranostic applications to identify and treat tinnitus.”

Session Chair with Dr. Sven Vanesta, NeuroImaging Section. Tinnitus Research Initiative Meeting, Valencia, Spain, June 2013.

Session Chair, Poster session. Tinnitus Research Initiative Meeting, Valencia, Spain, June 2013.

Session organizer and chair. Association for Research in Otolaryngology, 2014, San Diego, CA “Vestibular Related Traumatic Brain Injury (TBI).”, Anthony T. Cacace, Ph.D.

Speakers:

Anthony T. Cacace, Ph.D., Wayne State University,
“Introduction and overview.”

Faith W. Akin, Ph.D., James A Quillen VA Medical
Center, Mountain Home, Tn,

“Effect of blast exposure on peripheral vestibular function in humans.”

E. Mark Haacke, Ph.D., Wayne State University,

“The role of vascular damage in blast-induced TBI.”

Robin A. Hurley, M.D., Durham VA Medical Center,

“Window's to the Brain: the neuropsychiatry of TBI for Otolaryngology.”

Carey D. Balaban, Ph.D., University of Pittsburgh,

“Visualizing vestibular injury in the invisible wounds of war.”

Manojkumar Valiyaveetil, Ph.D., Center for Military
Psychiatry and Neurosciences, Walter Reed Army
Institute of Research,

“Expression profiling of auditory functional genes in the brain after repeated blast exposures.”

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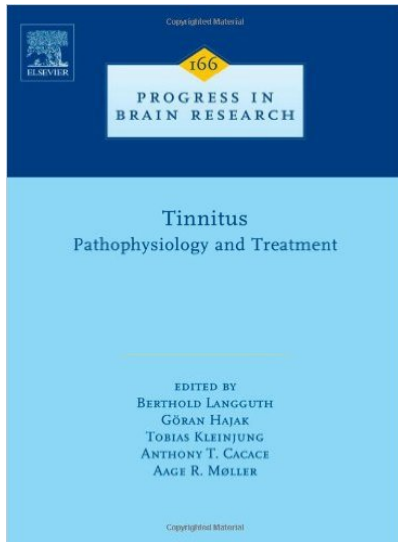
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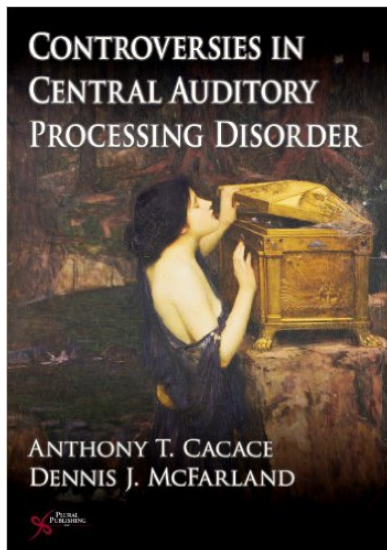
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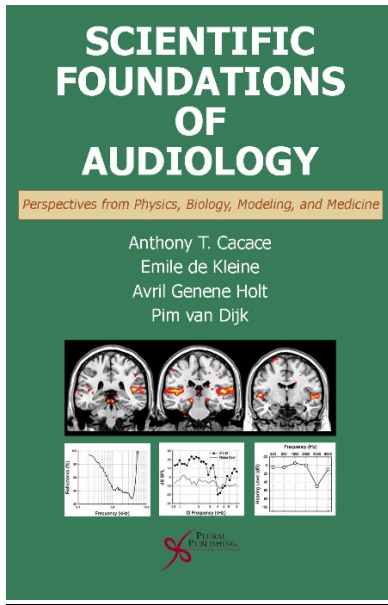
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 93. Cacace, A.T., and McFarland, D.J. Characterizing phase-locked versus non-phase locked EEG activity in passive and active oddball paradigms. *Assoc. Res Otolaryngol*. February 2003.

94. The Lake Ontario Hearing Meeting, June 23-24, 2003, Sponsored by: The Department of Otolaryngology, University of Rochester School of Medicine, Rochester, NY. Cacace AT, McFarland, DJ. Re-evaluating models of the auditory ERP: Implications for a paradigm shift.
95. Cacace, A.T., and McFarland, D.J. Advances in auditory EEG modulation. XXVII International Congress of Audiology, Phoenix, Arizona, Sept. 26-30, 2004
96. McFarland, D.J. and Cacace, A.T. Simulating test reliability and rate of diagnostic error. XXVII International Congress of Audiology, Phoenix Arizona, Sept. 26-30, 2004.
97. Lake Ontario Auditory Neuroscience Meeting, June 13, 2005, McMaster University, Hamilton, Ontario, Canada. Cacace AT, Zimmerman, E, McFarland, DJ. "Towards the development of electrophysiologic measures of early cognitive decline: Implications for the diagnosis of Alzheimer's disease"
98. Cacace, A.T., and McFarland, D.J. Unlocked activity and the additive model: Implications for cognitive ERPs. Annual Meeting of the American Auditory Society, Scottsdale, AZ, March 2006.
99. Cacace, A.T., and Pinheiro, J. M.B. The mitochondrial connection: a unifying hypothesis for understanding auditory neuropathy. NHS 2006: Beyond Newborn Hearing Screening: Infant and Childhood Hearing in Science and Clinical Practice, May 31-June 3, 2006. Villa Erba, Cernobbio (Lake Como), Italy.
100. Cacace, A.T., Pinheiro, J. M.B., Mouzakes, J., and Adams, D. Discordant auditory neuropathy in three sets of twins. NHS 2006: Beyond Newborn Hearing Screening: Infant and Childhood Hearing in Science and Clinical Practice, May 31-June 3, 2006. Villa Erba, Cernobbio (Lake Como), Italy.
101. Cacace, A.T., and Silver S. M. Towards understanding the neurobiochemical features of human auditory cortex. Annual Meeting of the American Auditory Society, Scottsdale AZ, March 4, 2007.
102. Lee, S. L., Cacace, A. T., and Silver, S. M. Transcranial magnetic stimulation in veterans with tinnitus. American Academy of Otolaryngology—Head & Neck Surgery Annual Meeting: Washington, DC, September 16-19, 2007.

103. McFarland, D. J., Cacace, A. T., Donahue, C. Iaconis, V., and DeBonis, D. A Multimodal Test Battery for Use in Auditory Processing Disorders. To be presented at the annual meeting of the American Speech Language and Hearing Association Meeting, November, 16th 2007, Boston Convention & Exhibition Center, Boston, Ma.
104. Jessen, J, and ASHA Publication Board (Cacace, A.T., AJA). Keys to Successful Publication in ASHA Journals. Annual Meeting of the American Speech Language and Hearing Association Meeting, November, 17th 2007, Boston Convention & Exhibition Center, Boston, Ma.
105. Cacace, A. T. What is the Limbic System and Is It a Useful Construct? Innovative Educational Seminar, The Annual Meeting of the American Academy of Audiology, Charlotte, N.C., April 2008.
106. Cacace, A. T., Ramachandran, V., Burkard, R., and Tyler, R. S. Potential artifacts introduced in tinnitus studies using repetitive transcranial magnetic stimulation (rTMS), 3rd Tinnitus Research Initiative Meeting "From Clinical Practice to Basic Neuroscience and Back - An international conference on Tinnitus", June 24th, 2009, Stresa, Italy.
107. Lawfield, A., McFarland, D J., and Cacace, A. T. Dichotic and Dichoptic Digit Perception in Normal Adults. Annual Meeting of the American Auditory Society, March 5, 2010, Scottsdale, Az.
108. Mahoney, M. J., Carpenter, M., McFarland, D.J., and Cacace, A. T. Reliability of middle-ear power reflectance measures in young and old adults. Annual Meeting of the American Auditory Society, March 5, 2010, Scottsdale, Az.
109. Carpenter, M., Mahoney, M.J., and Cacace, A.T. Age, gender and ear effects of broadband middle-ear power reflectance in adults. Annual Meeting of the American Auditory Society, March 5, 2010, Scottsdale, Az.
110. Ramachandran, V., and Cacace, A.T. Effects of virtual motion on speech perception in normal listeners. Annual Meeting of the American Auditory Society, March 5, 2010, Scottsdale, Az.
111. Cacace, A. T., Ramachandran, V., Burkard, R., and Tyler, R. S. Some observations on the use of repetitive transcranial magnetic stimulation (rTMS) to suppress tinnitus. Annual Meeting of the American Auditory Society, March 4, 2010, Scottsdale, Az.

112. Frick, K., and Cacace, A. T. Build-up of olivocochlear efferent suppression is asymmetric and uncorrelated with the Words-in-Noise Test. Presented at the 50th Anniversary International Symposium, Kresge Hearing Research Institute, University of Michigan, Ann Arbor, "*Pathology of the Inner Ear: Mechanisms and Treatments*, October 14-15, 2010.
113. Cacace, A. T., and McFarland, D. J. Beyond neural synchrony. Presented at the Annual Meeting of the American, Speech, Language, and Hearing Association, November, 2010.
114. Frick, K, and Cacace, A. T. Contralateral olivocochlear efferent suppression is asymmetric and uncorrelated with the Words-in-Noise Test. Annual Meeting of the American Auditory Society, March 3-5, 2011, Scottsdale, Az.
115. McFarland, D.J., Cacace, A.T., and Pierozynski, P. Development of analogous dichotic and dichoptic central masking tests. Annual Meeting of the American Auditory Society, March 3-5, 2011, Scottsdale, Az.
116. Cacace, A.T., Hu, J., Romero, S., Xuan, Y. Neurobiochemical and psychometric correlates of noise-induced tinnitus following low frequency *r*TMS over the left hemisphere of the human brain. The 5th International Tinnitus Research Initiative Tinnitus Conference: The Neuroscience of Tinnitus, August 19-21, 2011, Buffalo, N.Y.
117. Benson, R., Gattu, R., Cacace, A. T. Diffusion tensor imaging of noise-induced tinnitus. The 5th International Tinnitus Research Initiative Tinnitus Conference: The Neuroscience of Tinnitus Seminar, August 19-21, 2011, Buffalo, N.Y.
118. Romero, S., Laitman, L., Cacace, A. T., Hu, J. Voxel-based morphometric assessment of neuronal plasticity associated with low frequency *r*TMS for the treatment of noise-induced tinnitus. The 5th International Tinnitus Research Initiative Tinnitus Conference: The Neuroscience of Tinnitus Seminar, August 19-21, 2011, Buffalo, N.Y.
119. Cacace, A.T., Hu, J., Romero, S., Xuan, Y. Second Annual Wayne State Conference on Traumatic Brain Injury (2012). Neurobiochemical and psychometric correlates of noise-induced tinnitus following low frequency *r*TMS over the left hemisphere of the human brain.

120. Cacace, A. T., Hu, J., Romero, S. M., Xuan, Y. Glutamate is down-regulated and loudness-level-decreased following rTMS for tinnitus suppression. Annual Meeting of the American Auditory Society, March 8-10, 2012, Chaparral Suites, Scottsdale, AZ.
121. McCauley, L., Cacace, A.T. Jendrassik maneuver and other aural facial maneuvers facilitates cVEMP amplitude. Annual Meeting of the American Balance Society, March 7, 2012, Scottsdale, Az.
122. Cacace, A. T., Hu, J., Romero, S., Salamy, J., Xuan, Y. Noise-induced tinnitus: Selected neurobiochemical, anatomical, and psychometric changes follow rTMS included other metabolic-related effects. Sixth International TRI Tinnitus Conference, P. 23, Bruges, Belgium 2012.
123. Cacace, A. T., Knipper, M., Bolz, H. Genetics on family members with tinnitus. Sixth International TRI Tinnitus Conference, p. 33, Bruges, Belgium 2012.
124. Cacace, A. T., Holt, A. G., Castracane, J., Bergkvist, M. Nanotheranostics: Application to tinnitus research. Sixth International TRI Tinnitus Conference, P. 42, Bruges, Belgium, 2012.
125. Benson, R. R., Gattu, R., Cacace, A. T. Increased fractional anisotropy (FA) is asymmetric and localized primarily to white matter tracts in the left hemisphere: A diffusion tensor imaging study of noise-induced tinnitus. Sixth International TRI Tinnitus Conference, Pp. 56-57, Bruges, Belgium ,2012.
126. Ouillette, C., Holt, A. G., Cacace, A.T. Establishing the tinnitus/epilepsy connection. Association for Research in Otolaryngology, Baltimore, MD, February 2013.
127. Cacace, A. T., Ye, J., Haacke, E.M., Akin, F., Murnane, O., Pearson, A. Vestibular related traumatic-brain injury: A preliminary voxel-based morphometry analysis. Podium Session VI - Imaging and Disorders; Epidemiology of Hearing, Annual Meeting of the American Auditory Society, Scottsdale, Arizona, March 9, 2013.
128. Woodard, J. L., May, P. E., Sugarman, M. A., Norman, A. L., Cacace, A. T. A neuropsychological profile of blast-induced tinnitus. The 7th International TRI Conference on Tinnitus, Tinnitus: A Treatable Disease, May 15-18, 2013, Valencia, Spain.
129. Ouellette, C., Holt, A. G., Cacace, A. T. The tinnitus/epilepsy connection:

Establishing linkage through an on-line survey. The 7th International TRI Conference on Tinnitus, Tinnitus: A Treatable Disease, May 15-18, 2013, Valencia, Spain.

130. Cacace, A. T., Ye, Y. Investigating the brain “connectome” of blast-induced tinnitus: Some initial observations of a resting-state functional magnetic resonance imaging (RS-fMRI) connectivity analysis. The 7th International TRI Conference on Tinnitus, Tinnitus: A Treatable Disease, May 15-18, 2013, Valencia, Spain.
131. Woodard, J. L., May, P. L., Sugarman, M. A., Norman, A. L., & Cacace, A. T. A Neuropsychological Profile of Blast-Induced Tinnitus. International Neuropsychological Society, Seattle, Washington, February 12-15, 2014.
132. Cacace, A. T., Ye, Y., Akin, F., Murnane, O., Pearson, A., Gattu, R., Haacke, E. M. Voxel-based morphometry (VBM) in individuals with blast/tbi-related balance dysfunction. Proceedings of WSU 75th Anniversary Symposium, Injury Biomechanics, Prevention, Diagnosis & Treatment, August 14-16, 2014, Detroit, MI.
133. Gattu, R., Akin, F., Cacace, A. T., Murnane, O., Haacke, E. M. Vascular and white-matter alterations in blast and trauma-induced balance and gait problems revealed by Susceptibility-Weighted and Diffusion-Tensor Imaging. Proceedings of WSU 75th Anniversary Symposium, Injury Biomechanics, Prevention, Diagnosis & Treatment, August 14-16, 2014, Detroit, MI.
134. Akin, F., Murnane, O., Cacace, A. T., Smith, S., Riska, K. 1 hour Seminar, Title: Effects of Blast on Auditory & Vestibular Function, Topic area: Traumatic Brain Injury, Session Number: 1386, Session Format: Seminar 1-hour, Friday, November 21, 2014. Annual Convention of the American Speech Language and Hearing Association, Orange County Convention Center, Orlando, Florida.
135. Cacace, A. T., McFarland, D. J. Lack of a coherent theory limits the diagnosis and prognostic value of the central auditory processing disorder (CAPD). *J Acoust Soc Amer.* 136, 2258 (2014).
136. Tarver, B., Tyler, R. S., Vanneste, S., Stocking, C., Cacace, A. T., Martin, J., Deshpande, A. Vagus nerve stimulation paired with tones for the treatment of tinnitus. Presented at AudiologyNow, Annual Meeting of the American Academy of Audiology April, 2015.
137. Gattu, R., Cacace, A. T., Akin, F., Murnane, O. D., Haacke, E. M. MRI correlates of blast and trauma-induced dizziness in military personnel. Annual Meeting of the American Auditory Society, Scottsdale, AZ, March 5, 2015.
138. Cacace, A. T., Galloway, M. P., Woodard, J. L., Sajja, V. S. S. S., Hu, J., Ghoddoussi, F., VandeVorde, P., Xuan, Y. On the newly-emerging fields of

- perceptual, emotional, and cognitive magnetic resonance spectroscopy. Annual Meeting of the Tinnitus Research Initiative, Ann Arbor, MI, June 7-10, 2015.
139. Tyler, R. S., Martin, J., Stocking, C., Cacace, A. T. Vagus nerve stimulation (VNS) paired with tones for treatment of tinnitus. Annual Meeting of the Tinnitus Research Initiative, Ann Arbor, MI, June 7-10, 2015.
140. Tyler, R. S., Vanneste, S., Stocking, C., Cacace, A. T., Martin, J., Deshpande, A. Vagus nerve stimulation paired with tones for treatment of tinnitus. Otolology/Neurotology Track, Podium Presentation Annual Meeting of the American Academy of Otolaryngology and Head & Neck Surgery, Dallas Texas, September 27, 2015.
141. Holt, A. G., Galloway, M. P., Ghoddoussi, F., Cacace, A. T. Neurochemical profiles from the auditory cortex of rats with behavioral evidence of tinnitus: Use of high resolution magic-angle spinning proton magnetic resonance spectroscopy. Annual Meeting of the Association for Research in Otolaryngology, San Diego, CA, February 24, 2016.
142. Bergkvist, M., Holt, A. G. Hali, M., Cacace, A. T., Castracane, J. Development of dual targeted nanoparticles for delivery to tinnitus affected brain regions. Annual Meeting of the Association for Research in Otolaryngology, San Diego, CA, February 24, 2016.
143. Holt, A. G., Ghoddoussi, F., Muca, A., Apawu, A., Hali, M., Wilson, S., Cacace, A. T., Berkowitz, B. Neuronal activity in a model of noise-induced tinnitus: A longitudinal study. Annual Meeting of the Association for Research in Otolaryngology, San Diego, CA, February 24, 2016.
144. Cacace, A. T., Holt, A. G., Bergkvist, M., Castracane, J. Can we develop a silver bullet for tinnitus? Nanotheranostic perspective. Annual Meeting of the American Auditory Society, Scottsdale, Az, March 2-6, 2016.
145. Kochilas, H. L., Arnold, A., Seidman, M., Tarver, W. B., Cacace, A. T. Voice analysis following vagus nerve stimulation with tones. Annual Meeting of the American Auditory Society, Scottsdale, Az, March 2-6, 2016.
146. Dixon, A., Hali, M., Muca, A., Kuhl, A., Curley, S., Castracane, J., Bergkvist, M., Cacace, A.T., Holt, A. G. Development of dual targeted nanoparticles for delivery to tinnitus related brain regions. Poster presentation, The University Wide Graduate Research Exposition, March 23, 2016. First Place Award; \$500.00 prize.

147. Curley, S., Holt, A. G., Castracane, J., Dixon, A., Cacace, A. T., Bergkvist, M. Development and characterization of a MRI capable, targeted nanoparticle platform for receptor mediated transcytosis over an *In vitro* blood-brain-barrier. Tinnitus Symposium: Annual Meeting of the Association for Research in Otolaryngology, Baltimore, MD, February, 11, 2017.
148. Dixon, A., Bergkvist, M., Hali, M., Apawu, A. K., Muca, A., Kuhl, A., Curley, S., Castracane, J., Cacace, A. T., Holt, A. G. *In Vivo* histological assessment of custom designed nanoparticles in brain regions associated with tinnitus. Tinnitus Symposium: Annual Meeting of the Association for Research in Otolaryngology, Baltimore, MD, February 11, 2017.

MAGAZINE, NEWSPAPER ARTICLES; TELEVISION INTERVIEWS:

Cacace, A.T. Commentary on USA Today Cover Story, "Soldier's story shows risk of hearing loss," interviewed by Gregg Zoroya, staff writer, August 4, 2008.

Cacace, A.T. Association Research Conference, 2011: Current Trends in the Evaluation and Treatment of Tinnitus. Audiology Today Magazine, July/August 2011 Issue.

Cacace, A.T. Commentary on ABCNEWS.com, "Tinnitus drives sufferers to distraction, desperation." Interviewed by Jane E. Allen, staff writer ABC News Medical Unit, November 28, 2011.

Cacace, A.T. Comments on the Roadmap for Tinnitus: 10th Anniversary. Tinnitus Today Magazine, November /December 2011 Issue.

Cacace, A.T. Tinnitus: What consumers should know? June 2012, Newsletter, Lions Hearing, Detroit, MI.

Cacace, A. T. (June 2016) Interview with Douglas Beck, AuD., Editor for Academic Issues, The Hearing Review; topic: the newly released textbook entitled, "*Scientific Foundations of Audiology: Perspectives from Physics, Biology, Modeling, and Medicine*." Plural Publishing, San Diego, Ca. Eds; Cacace, A.T., de Kleine, E., Holt, A. G., & van Dijk, P. (2016). ISBN 978-1-59756-652-0

Cacace, A. T., Tyler, R. S. Television/Video Interview with Jordan Curnes, President and CEO, MicroTransponder, Inc. Topic: Vagus nerve stimulation with tones as a new treatment modality for tinnitus. August 21, 2016. Comcast Spotlight Studios, O'Hare Plaza I, 8746 W. Higgins Road, Chicago, Ill.

INVITED PRESENTATIONS:

1. Basic Science Course, Presented to Residents in Otolaryngology, Albany Medical College, (1975), "*Aspects of Temporal Integration As An Aid To Diagnosing Auditory Disorders*".

2. Annual Meeting of the Northeastern Society for School Nurse Teachers, Albany, New York, (1976) "*New Developments in Early Identification of Hearing Loss in School Age Children*".
3. Basic Science Course, Presented to Residents in Pediatrics, Albany Medical College, (1977), "*Hearing Testing in Infants*".
4. Quarterly Meeting of the Northeastern Otological Society, Boston, Mass., (1977), "*One Year Experience With a Hearing Rehabilitation Center*", with Jerome C. Goldstein, M.D.
5. Basic Science course, Presented to Residents in Otolaryngology, Albany Medical College, (1977), "*Auditory Evoked Potentials*".
6. Two-Way Radio Conference for Nurses, Sponsored by Department of Post Graduate Medicine, Albany Medical College, (1978), "*Breaking the Silence Barrier: Interaction with the Hearing Impaired Patient*", with Paul D. Gancher, M.S.
7. Annual Convention of the New York State Speech and Hearing Association, Liberty, New York, (1978), "*The Albany Approach to Fitting Hearing Aids*", with Jerome C. Goldstein, M.D.
8. Basic Science Course, Presented to Residents in Otolaryngology, Albany Medical College, (1978), "*Auditory Evoked Potentials*".
9. Medical Grand Rounds, North Framingham Hospital, North Framingham, Mass. (1979), "*Auditory Evoked Potentials as an Aid to Diagnosis*", with Saty Satya-Murti, M.D.
10. Basic Science Course, Presented to Residents in Otolaryngology, Albany Medical College, (1979), "*Auditory Evoked Potentials*".
11. Annual Mini-Convention in Communication Disorders, College of St. Rose, Albany, New York, (1979), "*Electrophysiological Assessment of the Auditory System*".
12. Grand Rounds, Departments of Neurology and Neurosurgery, Albany Medical College, (1979), "*Early Detection of Eighth Nerve Tumors with Acoustic Reflex Measurements and Brainstem Auditory Evoked Potentials*".
13. Lions Hearing Conservation Society, Liberty, New York, (1980), "*The Temporal Bone Bank and Related Auditory Research*".

14. Capital District Pediatric Journal Club, Albany, New York, (1980), "Hearing in Children", with Jerome C. Goldstein, M.D.
15. Grand Rounds, Department of Pediatrics, Albany Medical College, (1980), "Update on Audiology".
16. Annual Convention of the New York State Medical Society, Otolaryngology and Neurosurgery Section, Rye, New York, (1980), "Audiological Evaluation of Acoustic Neuroma".
17. Multi-Disciplinary Workshop on Rehabilitation through Amplification, American Hearing Research Foundation, Chicago, Ill., (1980). "The Albany Approach to Hearing Aid Fitting and Rehabilitation", with Jerome C. Goldstein, M.D.
18. Basic Science Course, Presented to Residents in Neurology, Albany Medical College, (1980), "Assessment of Cochlear vs. Retrocochlear Lesions".
19. Grand Rounds, Division of Otolaryngology, Albany Medical College, (1981), "Pathophysiology of Auditory Dysfunction in Select Neurologic Disorders".
20. Annual Meeting of the American Academy of Otolaryngology, New Orleans (1981-1982), Annual Course, "A Medical Center Approach to Hearing Rehabilitation", with Jerome C. Goldstein, M.D.
21. Monthly Meeting of the Hudson-Berkshire Chapter, Neuroscience Society, Albany, New York (1981), "Brainstem Auditory Evoked Potentials (BAEP's) and Cortical Auditory Evoked Potentials", with Jonathan R. Wolpaw, M.D., Saty Satya-Murti, M.D. and Charles Schaeffer, A.B.
22. Teaching Day: Diagnosis and Therapy of the Hearing Impaired, Division of Continuing Medical Education, Albany Medical College, Presented by the Departments of Surgery and Pediatrics, (1981): 1) "Evoked Response Audiometry", 2) "Locus of Pathology Tests- Including Evoked Response", with Edward W. Iandoli, Ph.D., and 3) "Albany Medical Center Hospital Hearing Rehabilitation Center: A 5 Year Report", with Jerome C. Goldstein, M.D.
23. Colloquium in Communicative Disorders, Division of Special Education and Rehabilitation, Syracuse University, Syracuse, New York, (1983) "How Critical is the Critical Band"?

24. Honors Colloquium, School of Education, Syracuse University, Syracuse, New York, (1984), "*The Measurement of Loudness Summation Assessed by Absolute Magnitude Estimation and Loudness Balancing*".
25. Annual Meeting of the New York State Speech, Language and Hearing Association. National Teacher Examination Review Course, "*Anatomy and Physiology of the Auditory System*", (1985, 1986, 1987).
26. Session Chair, "*Effects of Noise on Hearing*", Annual Meeting of the New York State Speech, Language and Hearing Association (1987).
27. Advanced International Symposium on Aural Acoustic Impedance, Verona, Italy, March 23-25, 1987, "*Some Characteristics of the Ipsilateral Acoustic Stapedius Reflex*", with Robert H. Margolis, Ph.D.
28. Teaching Day for Public Health Nurses, Sponsored by Department of Pediatrics, Infant Health Assessment Program, The Childrens Hospital, Albany Medical Center Hospital, "*New Developments in Evaluating Hearing in Infants and Young Children*", Albany Medical College, April 1987.
29. Monthly Business Meeting, Albany International Corporation, "*Analysis of High Risk, Hearing Impaired and Normal Infant Cry Vocalizations*", with other presentations by Drs. Pollara, Gaintner, Malik, and Kimmelberg, May 1987.
30. Discussant, Resident Research Day, Division of Otolaryngology, Albany Medical College, "*Magnitude Estimation of Loudness: Application to Hearing Aid Evaluation*", May 16, 1987.
31. Pediatric Grand Rounds, "*One Year Experience with a Neonatal Intensive Care Unit Hearing Screening Program*", with Peter Koltai, M.D. and Bette Civitello, M.S., June 1988.
32. Discussant, Resident Research Day, Division of Otolaryngology, Albany Medical College, "*Sensorineural Hearing Loss and Temporary Threshold Shifts in a Macaque Monkey Model of Calcitonin Induced Hypocalcemia*", May 6, 1989.
33. In service lecture to home health aids, "*Aspects of Hearing Loss and Hearing Aids in Relation to Patient Communication*", Department of Continuing Education, Adult

- Learning Center, City School District of Albany, June 17, 1989.
34. Visiting Professor, Miniseminar, "Development and Maintenance of a Research-Based Neonatal Intensive Care Unit Hearing Screening Program". University of Hawaii, January 9, 1990.
 35. Discussant, Resident Research Day, Division of Otolaryngology, Albany Medical College, "The Relationship of Calcium and Cochlear Function in Patients Undergoing Parathyroidectomy and Total Thyroidectomy", May 18, 1991.
 36. Basic Science Course in Neurosurgery. "Basic and Applied Aspects of Auditory Electrophysiological Assessment", February 1991.
 37. Visiting Professor, University of Minnesota, Communication Sciences and Disorders Program, "Theoretical and Practical Aspects of Middle and Long Latency Auditory Evoked Potentials," May 10, 1991.
 38. Audiology Study Group of the Capital District, "Memory Probes of Central Auditory Integrity," September 1991.
 39. Department of Pediatrics, "Hearing Screening in the NICU: Technical Aspects," January 28, 1992.
 40. Audiology Study Group of the Capital District, "An Overview of Otoacoustic Emissions and Possible Clinical Applications," July 14, 1993.
 41. Audiology Study Group of the Capital District, "Overview of MRI and its Application to Imaging Phantom Auditory Perceptions (tinnitus)". May 9, 1995.
 42. Job Fair, Allied Health Professions and Job Opportunities, Green Island High School, December, 1996.
 43. Visiting Professor, Hearing Research Laboratory, SUNY Buffalo, April 1998:
 - 1) "Is central auditory processing disorder purely auditory?"
 - 2) "Imaging tinnitus with functional MRI".
 44. Visiting Professor, Grand Rounds in Neonatology, Vassar Brothers Hospital, Poughkeepsie, NY "Neonatal Hearing Screening: A review of technology." May 1998.
 45. Visiting Professor, SUNY New Paltz, Department of Communication Disorders, "Basic Overview and Diagnostic Applications of Otoacoustic Emissions and

- Auditory Evoked Potentials*”, March 18, 1999.
46. Featured session, American Academy of Audiology, A.T. Cacace, moderator, “Re-conceptualizing Central Auditory Processing Disorder”, with Dennis J. McFarland, Ph.D., Miami, Florida, April 1999.
 47. Featured session, American Academy of Audiology, Tinnitus Retraining Therapy, P. J. Jastreboff moderator, “*Advanced methods for studying tinnitus*”. Miami, Florida, April 1999.
 48. Radio Interview, Don Weeks, WRGB, “*Hearing Screening at the Children’s Hospital*”, Weekend of Champions, Children’s Hospital, Albany Medical Center, June 3, 1999.
 49. Lake Ontario Hearing Science Meeting, Institute for Sensory Research, Syracuse University, Syracuse, NY June 14-16, 1999, “*Applications of advanced technology in clinically oriented hearing research: Its not just for basic researchers any more*”.
 50. Ad hoc reviewer, Integrative Functional and Cognitive Neuroscience Study Section, SBIR grant review, National Institutes of Health, Bethesda, MD, August 4-5, 1999.
 51. Invited paper, plenary session, “Delineating tinnitus-related activity in the nervous system: Use of functional imaging at the *fin de siècle*”. *The 6th International Tinnitus Seminar*, Cambridge University, UK, September 6-9, 1999.
 52. Section chair, Free Papers, Session 3B: Methods of Detection: Central Processing: *6th International Tinnitus Seminar*, Cambridge University, UK, Wednesday, September 6-9, 1999.
 53. Invited seminar, with McFarland, D.J. Contemporary issues in diagnosing central auditory processing disorders, Mini seminar presented at the Annual Meeting of the New York State Speech, Language, and Hearing Association, Saratoga Springs, NY, April 6-9, 2000.
 54. Invited miniseminar, with Riback, P. What can molecular biology tell us about “*auditory neuropathy*”? Presented at the Annual Meeting of the New York State Speech, Language, and Hearing Association, Saratoga Springs, NY April 6-9, 2000.
 55. Invited expert discussant, Consensus Conference, “*Central Auditory Processing Disorders in Children*”, Callier Center for Communication Disorders, University of

Texas at Dallas, April 26-30, 2000.

56. Seminar, Physiological assessment, with Burkard, R.F., Ferraro, J.A, McFarland, D.J., “*Auditory evoked potentials and EEG: What’s new?*”, Annual Meeting of the American Speech, Language and Hearing Association, November 18, 2000, Washington, D.C.
57. Lecture, Auditory System Plasticity, Module III: Plasticity in the Nervous System, Introduction to Biomedical Sciences, Graduate Studies BMS 601, School of Public Health, State University of New York, The Axelrod Center, NYS Health Department, November 28, 2001.
58. 9th Annual Appalachian Spring Audiology Conference, sponsored by the Department of Veteran’s Affairs, James H. Quillen VA Medical Center, Mountain Home Tennessee and East Tennessee State University, June 20-21, 2002, “*The Reliability and Validity of the CAPD Diagnosis*”, intensive short course presented in collaboration with Dennis J. McFarland, Ph.D.
59. Keynote session chair and organizer, “*Auditory Processing Disorders*” presented at the Annual Meeting of the American Speech, Language, and Hearing Association, San Diego, CA, November 26, 2005. Keynote speakers:

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| Stuart Rosen, Ph.D.: | Auditory processing disorder: What is it? Why does it matter? |
| Larry Humes, Ph.D.: | Factors underlying speech understanding difficulties in the elderly. |
| Dennis J. McFarland, Ph.D.: | Role of modality specificity in diagnosing disorders of auditory perception. |
60. Invited miniseminar with McFarland, D.J. The importance of modality specificity in diagnosing central auditory processing disorder (CAPD). The Annual Meeting of the New York State Speech, Language, and Hearing Association, Saratoga Springs, NY, April, 2006.
61. Invited presentation: “Applications of magnetic resonance spectroscopy to tinnitus research: Current issues and future perspectives.” The First Tinnitus Research Initiative Meeting, The Future Treatment of Tinnitus, Regensburg, Salzstadel, Germany, July 27-29, 2006.
62. Invited Keynote lecture and Guest-of-Honor with Dirk de Ridder, M.D.: “Overview of Imaging Techniques for Tinnitus.” Fourteenth Annual Conference on the

- “Management of the Tinnitus Patient”, September 21-23, 2006, sponsored by the Department of Otolaryngology - Head & Neck Surgery and Department of Speech Pathology and Audiology, University of Iowa.
63. Invited lecture, “Functional Magnetic Resonance Imaging of Tinnitus” Holiday Inn Grand Island Resort and Conference Center, June 22-24, 2007, Grand Island, NY. Advances in Tinnitus: Assessment, Treatment and Basic Neuroscience, sponsored by the Center for Hearing and Deafness and Department of Communication Disorders and Sciences, University at Buffalo.
 64. Invited presentation, “Consolidating human and animal functional imaging data: a new frontier?”, Presented at the 2nd Tinnitus Research Initiative meeting, Principality of Monaco, July 17-21, 2007.
 65. Invited presentation, “Tinnitus related deafferentation induced plasticity.” Presented at the 2nd Tinnitus Research Initiative meeting, Principality of Monaco, July 17-21, 2007.
 66. Invited poster, “Structural and Neurobiochemical Correlates of Noise-Induced Tinnitus: An MRI and MRS Study.” Presented at the 2nd Tinnitus Research Initiative meeting, Principality of Monaco, July 17-21, 2007 with: Stephen G. Romero, Ryan C. Guay, and Steven M. Silver.
 67. Invited lecture, “The Importance of Modality Specificity in Diagnosing Auditory Processing Disorders: Strength-of-Evidence;” Panel Discussant on Central Auditory Processing Disorder with Nina Kraus, Ph.D., Terri Bellis, Ph.D., Benoit Jutras, Ph.D. and Judge, Student Research Competition, University of Montreal, International Conference on Pediatric Audiology, Montreal Canada, September 10-12, 2007.
 68. Invited lecture, Research Seminar Series, Department of Otolaryngology, Wayne State University, “Constructive Collaborations: Bridging the Gap Between Basic Science, Clinical Research, and Translational Outcomes, October 17, 2007.
 69. Invited lecture, Research Seminar Series, Kresge Hearing Research Laboratories, University of Michigan, “The mitochondrial connection: a unifying framework for understanding auditory neuropathy” December 19, 2007.
 70. Department of Radiology, MR Research Institute, Wayne State University, MRI Retreat, Grosse Pointe War Memorial “Development of imaging modalities to study tinnitus in humans,” June 13, 2008.
 71. Invited lecture, Tinnitus support group, Oakwood Hospital, Dearborn Michigan, July 2008.

72. Invited lecture, 16th Annual Management of the Tinnitus Patient Conference, Department of Otolaryngology, University of Iowa, September 18-20. "Imaging the Brain for Tinnitus," and "Use of Transcranial Magnetic Stimulation to Reduce Tinnitus."
73. Invited discussion by international experts. International RoundTable on Traumatic Brain Injury, Washington DC, Sponsored by the Secretary of the Veteran's Administration, November 17-18, 2008.
74. Seminar: Publishing Your Research: Guidance for Successful Submissions in ASHAs Journals. Presented at the annual meeting of the American Speech, Language and Hearing Association, Chicago, Ill., November 20th, 2008 with Katherine Verdolini, Ken Apel, Karla McGregor, Laura Justice, and Robert Schlaugh.
75. Veteran's Administration Sponsored Conference, "Effective Practice of Audiology and Speech-Language Pathology for Traumatic Brain Injury," Washington, DC, January 13-15, 2009. Title: "Auditory Manifestations of Traumatic Brain Injury - Opening Pandora's Box."
76. Keynote presentation, "Repercussions of blast-induced traumatic brain injury," Joint Defense/VA Audiology Conference, Phoenix, Arizona, March 3, 2009.
77. Annual Meeting of the American Academy of Audiology, Miniseminar/Learning Module, entitled, "Distinguishing inner hair cell dysfunction from auditory neuropathy" with MiChelle Carpenter, Lauren McCauley, and Robert F. Burkard, (2009).
78. P30 Tinnitus Meeting, University of Michigan, Ann Arbor, September 23, 2009. "Some Observations on the Use of Repetitive Transcranial Magnetic Stimulation (rTMS) on Tinnitus."
79. Carpenter, M., Cacace, A.T., and Mahoney, MJ. Missing links of some curious auditory phenomena: A tale from the middle ear. P30 Post ARO Research Conference, University of Michigan, March 30, 2010.
80. Magestral Lesson: "Central auditory processing and neural mechanisms of tinnitus." Course: Tinnitus Basic Concepts and Clinical Management, June 10th, 2010, Milan, Italy. CRS Centro Richerche e Studi Amplifon, Directors: Professor

Giancarlo Cianfrone, Roma, Italy; Professor Domenico Cuda, Piacenza, Italy.

81. Cacace, A.T. Brown Bag Lunch Seminars, Department of Communication Sciences & Disorders, "*Otoacoustic Emission Suppression*," March 11, 2011.
82. Guest-of-Honor, 19th Annual Conference on Management of the Tinnitus Patient, Sponsored by the Department of Otolaryngology - Head and Neck Surgery and Department of Communication Sciences and Disorders, University of Iowa, September 10, 2011. Lecture title: Is the Tinnitus Brain Different?
83. Invited speaker, Master Class on Central Auditory Processing, University College London, October, 2012. Title: "Theoretical and Practical Considerations in Assessing Auditory Processing Disorders (APDs): Importance of Modality Specificity and Use of Contemporary Psychophysical Methods."
84. Cacace, A.T. Brown Bag Lunch Seminars, Department of communication Sciences & Disorders, "*Neurobiochemical, Structural, and Psychometric Correlates of Noise Induced Tinnitus: Abatement Procedures and Newer Imaging Modalities*," November 11, 2011.
85. Invited speaker, Wayne State University, 3rd Annual Traumatic Brain Injury Workshop, December 7, 2012. Title: Overview of the Vestibular Evaluation in Mild Traumatic Brain Injury: Correlation with Neuroimaging; with collaboration from E. Mark Haacke, Ramtilak Gattu, Wayne State University and Faith W. Akin, Owen Murnane, and Cortney Hall, James H. Quillen VA Medical Center, Mountain Home, TN.
86. Invited speaker, Seminar Series, December 14, 2012, Department of Otorhinolaryngology/Head and Neck Surgery, University Medical Center Groningen, Groningen University, Groningen, Netherlands. Title: Expanding the Biological Basis of Tinnitus: A Personal Perspective on Imaging Tinnitus-Related Phenomena and Treatments.
87. Invited lecture, Basic Science Series for residents in Otolaryngology, May 1, 2013, Wayne State University School of Medicine. Title: Background and Clinical Value of Otoacoustic Emissions and Auditory Brainstem Responses.
88. Symposium; Annual Meeting of the American Speech, Language and Hearing Association, Orlando, Florida, November, 2014. Title: Effects of Blast on Auditory and Vestibular Function; Authors: Faith W. Akin, PhD, Owen Murnane, PhD, Anthony T. Cacace, PhD, Sherri Smith, PhD, Kristal M. Riska, PhD.
89. Woodard, J.L., May, P.E., Sugarman, M.A., Norman, A.L., & Cacace, A.T. (February, 2014). A neuropsychological profile of blast-induced tinnitus. *Journal*

- of the International Neuropsychological Society, 20, 38-39. Presentation at the 42nd Annual Meeting of the International Neuropsychological Society, Seattle, WA.*
90. Seidman, M.D., Cacace, A.T., Bowyer, S., Zhang, J. Vagal Nerve Stimulation, Acoustic Stimuli, Brain Plasticity, AM-101 and Tinnitus. University of Michigan, Michigan-Toledo P30 Meeting, Tuesday, June 3, 2014, Ann Arbor, MI.
91. Cacace, A. T., McFarland, D. J. Hyperacusis is a Theoretical Construct; not a Behavior: Reconciling Human and Animal Data. University of Michigan, Michigan-Toledo P30 Meeting, Tuesday, June 3, 2014, Ann Arbor, MI.
92. Cacace, A. T., McFarland, D. J. Lack of a coherent theory limits the diagnosis and prognostic value of the central auditory processing disorder (CAPD). Invited talk to be presented at the 168th Biannual Meeting of the Acoustical Society of America, Indianapolis, Indiana, October 27-29, 2014. All day special session, entitled: "Physiological and Psychological Aspects of Central Auditory Processing Dysfunction," Chairs: Frederick Gallun and Adrian C.T. Lee.
93. Cacace, A. T., Tyler, R., Vanneste,s., Stocking, C., Seidman, M., Tarver, W. B.. The Ultimate Colorado MidWinter Meeting, Vail, Colorado, January 25-29, 2016. Department of Otolaryngology, School of Medicine, University of Colorado. The Vagal Nerve Stimulation Clinical Trial for Tinnitus.
94. Cyber-webinar, Department of Veteran Affairs; April 10, 2017
- Title: Imaging and Balance Disorders
 Re: Vestibular, balance, microvascular and white matter neuroimaging characteristics of blast injuries and mild traumatic brain injury: Four case reports. Brain Trauma (2016)
- Participants: Anthony T. Cacace, Ph.D., Wayne state University, Detroit, MI
 Courtney Hall, Ph.D., James A. Quillan VA Medical Center, Mountain Home, Tennessee.