

## BUDGET ESTIMATE (Application Phase)

CONTACT INFORMATION				
NAME: Jerry L. Punch, Ph.D. ADDRESS: 4469 Satinwood Drive, Okemos, MI 48864 PHONE (mobile): 517-881-0852 FAX: 517-353-3176 EMAIL: jpunch@msu.edu WEBSITE: <a href="https://comartsci.msu.edu/our-people/jerry-punch">https://comartsci.msu.edu/our-people/jerry-punch</a> PURPOSE: Consult on Alle-Catt Wind Energy Project PREPARED BY: Jerry L. Punch DATE: 3/26/2019				
ATTORNEY	BILL TO			
Gary A. Abraham 4939 Conlan Road Great Valley, NY 14741 716-790-6141 gabraham44@eznet.net	Centerville's Concerned Citizens (CCC) c/o Dennis Gaffin 10499 Mink Hollow Road Farmersville Station, NY 14060-9622			
DATE	ITEM DESCRIPTION	HRS	HRLY RATE	TOTAL
Apr-May 2019	Review and evaluate Exhibits 15 & 19, project maps, sound study of ACWE's application, and studies in ACWE application	12	200.00	2,400.00
Apr-May 2019	Review recent peer-reviewed research on noise and health	8	200.00	1,600.00
Apr-May 2019	Review research studies cited in ACWE application	4	200.00	800.00
TBD	Review applicable agency guidance documents (e.g., NYSDEC, WHO)	4	200.00	800.00
TBD	Review and comment on James noise study and testimony of DOH, DPS, and Schomer with regard to health impacts	16	200.00	3,200.00
TBD	Consult with Mr. Abraham (telephone, email)	10	50.00	500.00
TBD	Prepare pre-filed testimony	18	200.00	3,600.00
TBD	Prepare rebuttal testimony	12	200.00	2,400.00
TBD	Attend live hearing (2 days in Albany or Western NY)	10	50.00	500.00
TBD	Provide direct testimony in hearing	2	300.00	600.00
TBD	Direct travel expenses (auto mileage, 1208 mi RT@.58/mi)*	NA		700.00
TBD	Travel time (auto, round trip)	18	25.00	450.00
TBD	Lodging (2 nights x 150)	NA	NA	300.00
TBD	Meals (2 days x 50)	NA	NA	100.00
		TOTAL		\$ 17,950.00
*2019 IRS Travel Rate				

**Expert Witness Fee Schedule**  
**Jerry L. Punch, Ph.D.**  
**2019**

1. One-on-one phone calls: \$50 per hour; up to 15 minutes, no charge
2. Document review, literature review, site visits, interviews, research, analysis, letters, disclosure and declaration statements, reports, affidavits, preparation for oral or audio-video presentations, audio or audio-video conference calls (excluding depositions, legal testimony, and oral presentations): \$200 per hour
3. Depositions, court testimony, oral presentations: \$300 per hour
4. Travel (auto and air): All applicable expenses for transportation, parking, meals, and lodging; travel by car reimbursed at \$0.58 per mile (IRS 2019 travel rate), travel time charged at \$25 per hour; air-travel time includes transit time to and from airport, reasonable and customary wait time in airport, and direct flying time
5. Preferred billing on a retainer basis, with monthly, quarterly, or task-based billing thereafter, as negotiated with attorneys and their clients

**Curriculum Vitae**  
**Jerry L. Punch, Ph.D.**  
**January 2017**

Professor Emeritus, Department of Communicative Sciences and Disorders  
Oyer Speech and Hearing Center  
1026 Red Cedar Road  
Michigan State University  
East Lansing, MI 48824  
517-353-8656 (office)  
517-353-8780 (department)  
517-881-0852 (mobile)  
jpunch@msu.edu

**EDUCATIONAL BACKGROUND**

- A.A. – 1963 Gardner-Webb College (now Gardner-Webb University)  
Boiling Springs, NC USA
- B.A. – 1965 Wake Forest College (now Wake Forest University)  
Winston-Salem, NC USA  
Major: Psychology
- M.S. – 1967 Vanderbilt University  
Nashville, TN USA  
Major: Audiology and Speech Pathology  
Master's Thesis: An investigation of the speech  
discrimination ability of elderly adults  
Thesis Advisor: Freeman McConnell, Ph.D.
- Ph.D. – 1972 Northwestern University  
Evanston, IL USA  
Major: Audiology  
Doctoral Dissertation: Forward masking under  
homophasic, antiphase and other listening conditions  
Advisor: Raymond Carhart, Ph.D.

**PROFESSIONAL BACKGROUND**

**TRAINEE AND STUDENT POSITIONS**

Audiology Trainee, Veterans Administration, Winston-Salem, NC, June-August 1965  
Clinical Audiologist and Supervisor, Bill Wilkerson Hearing and Speech Center, Nashville, TN,  
February 1967-June 1968

Experience in salaried, part-time positions as ASHA-certified audiologist while a doctoral student/candidate; work settings included Chicago Hearing Society, Veterans Administration Research Hospital, Schwab Rehabilitation Hospital, and ENT practice of Dr. George Sisson, Chicago, IL, Fall 1968-Summer 1971

## **PROFESSIONAL POSITIONS**

Assistant Professor of Audiology, University of Mississippi, Oxford, MS, September 1971-July 1973

Assistant Professor, Memphis State University (now University of Memphis), Memphis, TN, August 1973-April 1975

Research Associate, Biocommunications Laboratory, Department of Hearing and Speech Sciences, University of Maryland, College Park, MD, May 1975-June 1980

Project Director, American Speech-Language-Hearing Association, Rockville, MD, July 1980-June 1981

Director, Research Division, American Speech-Language-Hearing Association, Rockville, MD, July 1980-July 1984

Associate Professor and Chief, Audiology Section, Department of Otolaryngology-Head and Neck Surgery, Indiana University School of Medicine, Indianapolis, IN, July 1984-October 1987

Senior Research Audiologist, Audio-Diagnostics Division, Nicolet Instrument Corporation, Madison, WI, October 1987-December 1989

Associate Professor (tenured), Department of Audiology and Speech Sciences, Michigan State University, East Lansing, MI, January 1990-August 1994

Professor, Chair, and Clinic Director, Department of Audiology and Speech Sciences, Michigan State University, East Lansing, MI, August 1994-May 2000

Professor, Department of Audiology and Speech Sciences (renamed Department of Communicative Sciences and Disorders), Michigan State University, East Lansing, MI, June 2000-May 2011

Professor Emeritus, Department of Communicative Sciences and Disorders), Michigan State University, East Lansing, MI, May 2011-present

## **ACADEMIC COURSES TAUGHT (in alphabetical order)**

Anatomy and Physiology of Hearing

Anatomy and Physiology of Speech and Hearing Mechanisms

Audiological Assessment and Intervention/Rehabilitation

Aural Rehabilitation

Clinical Audiometry/Hearing Assessment/Evaluation Procedures in Audiology (course and lab instruction)

Differential Diagnostic Audiology

Evaluation Procedures in Audiology (also with associated lab)

Hearing Aids/Hearing Amplification and Rehabilitation/Hearing Amplification I & II

Hearing Disorders

Industrial Audiology/Hearing Conservation

Introduction to Audiology  
Introduction to Speech and Hearing  
Medical Aspects of Audiology  
Microcomputer Applications in Audiology and Speech Sciences  
Pediatric Audiology/Special Populations in Audiology  
Professional Ethics in Communicative Sciences and Disorders  
Psychoacoustics  
Research Design and Analysis/Research Methods/Research Methods in Communicative Sciences and Disorders  
Seminar for Honors Undergraduates: Investigating Hearing Health Risks in the MP3 Generation

## **PUBLICATIONS**

### **REFEREED ARTICLES**

- Allen, J. et al. (Vanderbilt Hereditary Deafness Study Group) (1968). Dominantly inherited low-frequency hearing loss. *Archives of Otolaryngology*, 88, 242-250.
- Punch, J.L., & McConnell, F. (1969). The speech discrimination function of elderly adults. *Journal of Auditory Research*, 9, 159-166.
- Wilson, R.H., & Punch, J.L. (1971). Masked spondee thresholds: Variable duty cycle and mask intensity. *Journal of Auditory Research*, 11, 270-275.
- Punch, J., & Carhart, R. (1973). Influence of interaural phase on forward masking. *Journal of the Acoustical Society of America*, 54, 897-904.
- Punch, J.L., & Lawrence, W.F. (1977). Decibel notation with correlated and uncorrelated signals. *Journal of the American Audiology Society*, 3, 71-79.
- Punch, J.L. (1978). Quality judgments of hearing aid-processed speech and music by normal and otopathologic listeners. *Journal of the American Audiology Society*, 3, 179-188.
- Punch, J.L., Lawrence, W.F., & Causey, G.D. (1978). Measurement of attack-release times in compression hearing aids. *Journal of Speech and Hearing Research*, 21, 338-349.
- Punch, J.L. (1978). Masking of spondees by interrupted noise in hearing-impaired listeners. *Journal of the American Audiology Society*, 3, 245-252.
- Punch, J.L., & Howard, M.T. (1978). Listener-assessed intelligibility of hearing aid-processed speech. *Journal of the American Audiology Society*, 4, 69-76 (1978).
- Punch, J.L., & Beck, E.L. (1980). Low-frequency response of hearing aids and judgments of aided speech quality. *Journal of Speech and Hearing Disorders*, 45, 325-335.
- Punch, J.L., Montgomery, A.A., Schwartz, D.M., Walden, B.E., Prosek, R.A., & Howard, M.T. (1980). Multidimensional scaling of quality judgments of speech signals processed by hearing aids. *Journal of the Acoustical Society of America*, 68, 458-466.
- Punch, J.L., & Parker, C.A. (1981). Pairwise listener preferences in hearing aid evaluation. *Journal of Speech and Hearing Research*, 24, 366-374.
- Montgomery, A.A., Schwartz, D.M., & Punch, J.L. (1982). Tournament strategies in hearing aid selection. *Journal of Speech and Hearing Disorders*, 47, 363-372.
- Punch, J.L., & Howard, M.T. (1985). Spondee recognition threshold as a function of set size. *Journal of Speech and Hearing Disorders*, 50, 120-125.

- Punch, J.L., & Beck, L.B. (1986). Relative effects of low-frequency amplification on syllable recognition and speech quality. *Ear and Hearing*, 7, 57-62.
- Miyamoto, R.T., McConkey, A.J., Myres, W., Pope, M., & Punch, J.L. (1986). Long-term intracochlear implantation in man. *Otolaryngology-Head and Neck Surgery*, 95, 63-70.
- Pope, M.L., Miyamoto, R.T., Myres, W.A., McConkey, A.J., & Punch, J.L. (1986). Cochlear implant candidate selection. *Ear and Hearing*, 7, 71-73.
- Punch, J.L., Robbins, A.M., Myres, W., Pope, M.L., & Miyamoto, R.T. (1987). Relationships among selected measures of single-channel cochlear implant performance. *Ear and Hearing*, 8, 37-43.
- Punch, J.L. (1987). Matching commercial hearing aids to prescriptive gain and maximum output requirements. *Journal of Speech and Hearing Disorders*, 52, 76-83.
- Miyamoto, R.T., Myres, W.A., Wagner, M.L., & Punch, J.L. (1987). Vibrotactile devices as sensory aids for the deaf. *Otolaryngology-Head and Neck Surgery*, 97, 57-63.
- Hecox, K.E., & Punch, J.L. (1988). The impact of digital technology on the selection and fitting of hearing aids. *American Journal of Otology* (Supplement), 9, 77-85.
- Punch, J.L. (1988). CROS revisited. *Asha*, 35-37.
- Punch, J., Chi, C., & Allan, J. (1990). Signal averaging in real ear probe tube measurements. *Ear and Hearing*, 11, 327-331.
- Punch, J.L., Jenison, R.L., Allan, J., & Durrant, J.D. (1991). Evaluation of three strategies for fitting hearing aids binaurally. *Ear and Hearing*, 12, 205-215.
- Punch, J.L., & Robb, R. (1992). Prescriptive hearing aid fitting by parameter adjustment and selection. *Journal of the American Academy of Audiology*, 3, 94-100.
- Punch, J., & Rakerd, B. (1993). Loudness matching of signals spectrally shaped by a simulated hearing aid. *Journal of Speech and Hearing Research*, 36, 357-364.
- Punch, J.L., & Jarrett, A.M. (1994). Hearing aid licensing statutes and the audiologist. *American Journal of Audiology*, 3, 43-54.
- Punch, J.L., Robb, R., & Shovels, A.H. (1994). Aided listener preferences in laboratory versus real-world environments. *Ear and Hearing*, 15, 50-61.
- Punch, J.L., Shovels, A.H., Dickinson, W.W., Butcher, J., & Snead, C. (1995). Target-matched insertion gain derived from three different hearing aid selection procedures. *Journal of the American Academy of Audiology*, 6, 425-432.
- Punch, J.L., Robinson, D.O., & Katt, D.F. (1996). Development of a hearing performance standard for law enforcement officers. *Journal of the American Academy of Audiology*, 7, 113-119.
- Arsenault, M.D., & Punch, J.L. (1999). Nonsense-syllable recognition in noise using monaural and binaural listening strategies. *Journal of the Acoustical Society of America*, 105, 1821-1830.
- Rakerd, B., Punch, J., Hooks, W., Amlani, A., & VandeVelde, T.J. (1999). Loudness discrimination of speech signals spectrally shaped by a simulated hearing aid. *Journal of Speech, Language, and Hearing Research*, 42, 1285-1294.
- Punch, J.L., Rakerd, B., & Amlani, A. (2001). Paired-comparison hearing aid preferences: Evaluation of an unforced-choice paradigm. *Journal of the American Academy of Audiology*, 12, 190-201.
- Punch, J.L. (2001). Contemporary issues in hearing aid selection and fitting. *Speech and Hearing Review*, 2, 21-50 (Chinese version); 166-191 (English version) (by invitation).

- Punch, J. (2003). A universal hearing aid: Recommended technologic and functional features. *Iranian Audiology*, 2(1), 24-31. (Invited paper).
- Punch, J., Joseph, A., & Rakerd, B. (2004). Most comfortable and uncomfortable loudness levels: Six decades of research. *American Journal of Audiology*, 13, 144-157.
- Punch, J., Rakerd, B., & Joseph, A. (2004). Effects of test order on most comfortable and uncomfortable loudness levels for speech. *American Journal of Audiology*, 13, 158-163.
- Holcomb, S.S., & Punch, J. L. (2006). Multimedia Hearing Handicap Inventory: Test-retest reliability and clinical utility. *American Journal of Audiology*, 15, 3-13.
- Amlani, A., Rakerd, B., & Punch, J. (2006). Speech-clarity judgments of hearing-aid-processed speech in noise: Differing polar patterns and acoustic environments, *International Journal of Audiology*, 45, 319-330.
- Joseph, A., Punch, J., Stephenson, M., Paneth, N., Wolfe, E., & Murphy, W. (2007). The effects of training format on earplug performance. *International Journal of Audiology*, 46, 609-618.
- Callaway, S.L., & Punch, J.L. (2008). An electroacoustic analysis of over-the-counter hearing aids, *American Journal of Audiology*, 17, 14-24.
- Punch, J., Elfenbein, J., & James, R. (2011). Targeting hearing health messages for users of personal listening devices. *American Journal of Audiology*, 20, 69-82.
- Punch, J. & James, R. R. (2016). Wind turbine noise and human health: a four-decade history of evidence that wind turbines pose risks. *Hearing Health & Technology Matters*, <http://hearinghealthmatters.org/journalresearchposters/files/2016/09/16-10-21-Wind-Turbine-Noise-Post-Publication-Manuscript-HHTM-Punch-James.pdf>.

## NON-REFEREED ARTICLES

- Causey, G.D., Punch, J.L., Schweitzer, H.C., & Beck, L.B. (Spring 1978). The clinical and acoustic parameters of hearing aid effectiveness. *Bulletin of Prosthetics Research*.
- Causey, G.D., Punch, J.L., Schweitzer, H.C., & Beck, L.B. (Spring 1979). The clinical and acoustic parameters of hearing aid effectiveness. *Bulletin of Prosthetics Research*.
- Causey, G.D., Punch, J.L., & Schweitzer, H.C. (Fall 1979). The development of improved techniques for the analysis of hearing aid performance. *Bulletin of Prosthetics Research*.
- Causey, G.D., & Punch, J.L. (Spring 1980). The clinical and acoustic parameters of hearing aid effectiveness. *Bulletin of Prosthetics Research*.
- Punch, J.L. (1980). Self-study of profession's service and training needs in the 1980's. *Asha*, 22, 849-850.
- Punch, J.L. (1981). Subjective approaches to hearing aid evaluation. *Hearing Instruments*, 32, 12-14, 65 (Invited paper).
- Rees, N.S., Punch, J.L., & Snope, T.L. (1981). Report of Advisory Committee for the self-study project. *Asha*, 23, 899-902.
- Punch, J.L., & Gelatt, J.P. (1982). Federal funding agencies and speech-language-hearing. *Asha*, 24, 325-331.
- Punch, J. (1983). Characteristics of ASHA members. *Asha*, 25, 31.
- Punch, J. (1983). The prevalence of hearing impairment. *Asha*, 25, 27.
- Punch, J. (1983). The geographic distribution of speech-language-hearing personnel. *Asha*, 25, 31.

- Punch, J. (1983). Sociodemographic and health characteristics of the hearing-impaired population. *Asha*, 25, 15.
- Punch, J. (1983). Occupational mobility of speech-language pathologists and audiologists: Part I. *Asha*, 25, 31.
- Punch, J.L., & Fein, D.J. (1984). Profile of educational programs in speech-language pathology and audiology. *Asha*, 26, 43-48.
- Karr, S., & Punch, J. (1984). PL 94-142 state child counts. *Asha*, 26, 33.
- Punch, J. (1984). Occupational mobility of speech-language pathologists and audiologists: Part II. *Asha*, 26, 29.
- Punch, J.L. (1984). Salaries in the speech-language pathology and audiology profession. *Asha*, 26, 41-46.
- Mansour, S., & Punch, J. (1984). Research activity among ASHA members. *Asha*, 26, 41.
- Miyamoto, R.T., Myres, W.A., & Punch, J.L. (1987). Tactile aids in the evaluation procedure for cochlear implant candidacy. *Hearing Instruments*, 38, 33, 36-37.
- Miyamoto, R.T., Myres, W.A., Carotta, C.C., Robbins, A.M., Pope, M.L., Punch, J.L., & Steck, J. (November 1987). Cochlear implants in children. *Insights in Otolaryngology*, 2.
- Williamson, M., & Punch, J. (1990). Speech enhancement in digital hearing aids. *Seminars in Hearing*, 11, 68-78.
- Punch, J., Chi, C., & Patterson, J. (1990). A recommended protocol for prescriptive use of target gain rules. *Hearing Instruments*, 41, 12, 14, 16, 18-19.
- Punch, J., Birman, M., & Balmer, W. (1990). Comparative evaluation of substitution and equivalent substitution methods of hearing aid analysis. *The Hearing Journal*, 43, 28-29, 32-33.
- Punch, J.L., & Weinstein, B.E. (1996). The Hearing Handicap Inventory: Introducing a multimedia version. *The Hearing Journal*, 49(10), 35-36, 38-40, 44-45.
- Punch, J.L. (2001). Technologic and functional features of hearing aids: What are their relative costs? *The Hearing Journal*, 54(6), 32, 34, 36-38, 42, 44.
- Punch, J. (2001). Committee Report: A low-cost hearing aid for developing countries. *Hearing International*, 10(3), 4-5.
- Punch, J. (2002). The differences between analog and digital hearing aids. *Hearing International*, 10(4), 4-5 (Part I); *Hearing International*, 11(1), 8 (Part II).
- Punch, J. (2002). Technology Note: Linear vs nonlinear hearing aids. *Hearing International*, 11(2), 8.
- Punch, J. (2002). Technology Note: Output-limiting vs wide dynamic range compression. *Hearing International*, 11(3), 8.
- Punch, J. (2002). Technology Note: Acoustic modifications in hearing aids. *Hearing International*, 11(4), 7.
- Punch, J. (2002). Viewpoint: The virtues of virtual learning. *Audiology Today*, 14(5), 18.
- Punch, J. (2003). Survey of hearing aid manufacturers. *Hearing International*, 12(1), 7-8.
- Punch, J. (2003). Technology Note: Hearing aids and the audibility index. *Hearing International*, 12(2), 8-9.
- Punch, J. (2003). Technology Note: Assistive listening devices. *Hearing International*, 12(3), 7-8.
- Punch, J. (2004). Technology Note: Understanding hearing aid standards organizations. *Audiology Today*, 16(4), 15.



- Punch, J. (2005). Providing high-quality, low-cost hearing aids for developing countries. *Hearing International*, 14(3), 5.
- Punch, J. (2006). Providing high-quality, low-cost hearing aids for developing countries: A status report 2. *Hearing International*, 14(4), 4-5.
- Punch, J., James, R., & Pabst, D. (2010). Wind-turbine noise: What audiologists should know. *Audiology Today*, 22(4), 20-31.
- Punch, J., & James, R. (2014). Adverse health effects of noise from industrial wind turbines. HearingHealthMatters.org, Three-part series in Hearing Health & Technology Matters. Part 1: <http://hearinghealthmatters.org/hearingviews/2014/wind-turbine-health-problems-noise/>, Part 2: <http://hearinghealthmatters.org/hearingviews/2014/wind-turbine-noise-evidence-health-problems/>, Part 3: <http://hearinghealthmatters.org/hearingviews/2014/infrasound-wind-turbine-hearing-health-effects/>.

## **MONGRAPHS**

- Amlani, A.M., Punch, J.L., & Ching, Y.C. (2002). Methods and applications of the audibility index in hearing aid selection and fitting. *Trends in Amplification*, 6, 81-129.

## **BOOK CHAPTERS**

- Punch, J. (2004). High-quality, low-cost hearing aids. In *Hearing Impairment: An Invisible Disability*. Suzuki, J, Kobayashi, T, & Koga, K. (Eds). New York: Springer-Verlag.
- Punch, J. (2004). Hearing International project on high-quality, low-cost hearing aids. In *Hearing Impairment: An Invisible Disability*. Suzuki, J, Kobayashi, T, & Koga, K. (Eds). New York: Springer-Verlag.

## **PRESENTATIONS**

### **INVITED PRESENTATIONS**

#### **INTERNATIONAL LEVEL**

- Punch, J.L. (March 31, 2001). An analysis of hearing aid costs. Invited presentation at meeting of Committee on Management and Rehabilitation of Hearing Loss, Hearing International, Singapore.
- Punch, J (January 31, 2002). Challenges of developing and distributing a low-cost hearing aid. Invited paper, written by J. Punch and presented by Jun-Ichi Suzuki (J.I. Suzuki & J. Punch: View from the HI Rehabilitation Committee), Hearing International, Pattaya, Thailand.

#### **NATIONAL LEVEL**

- Punch, J. (December 1-2, 1976). Elements of hearing aid performance and aural rehabilitation. Invited workshop participant, Little Rock, AR.

- Punch, J. (March 17-19, 1983). Hearing aid selection: Listener judgments of speech quality and intelligibility. Invited participant at Three Rivers Conference on Communicative Disorders, Pittsburgh, PA.
- Punch, J. (April 15-16, 1988). Introduction to digital signal processing concepts and terminology, and Summary: Project Phoenix approach in developing and evaluating the performance of a digital hearing aid. Invited speaker at convention of Iowa Hearing Aid Society, Des Moines, IA.
- Punch, J. (October 1, 1988). Recent advances in digital hearing aids. Invited speaker at program sponsored by George Washington University Medical Center and George Washington University, Washington, DC.
- Punch, J. (May 20, 1989). Comparing and contrasting digital hearing aid systems. Invited participant in panel discussion at meeting of Academy of Dispensing Audiologists, Phoenix, AZ.
- Punch, J. (June 16, 1989). Digital hearing aids. Invited speaker at Amplification '89 Conference, Central Michigan University, Mt. Pleasant, MI.
- Punch, J. (October 26-27, 1990). How can digital hearing aids benefit the hearing impaired? Invited presentation, Iowa Hearing Aid Society, Des Moines, IA.
- Punch, J. (March 12-13, 1993). DSP-based hearing aid fitting procedures. Invited presentation at Technology Summit: Sound Advice on Amplification, Starkey Laboratories, Brookland Park, MN.
- Bentler, R.A., Fortune, T., Humes, L.E., McCarthy, P, Punch, J., & Van Vliet, D. (November 1994). Hearing aid fittings: A time for change. Invited miniseminar presentation to convention of American Speech-Language-Hearing Association, New Orleans, LA.
- Punch, J. (March 22-25, 1995). A hearing performance standard for police officers. Invited panel presentation at Hearing Conservation Conference III/XX, as part of Forum "The Americans with Disabilities Act: Recruiting, Retaining, and Protecting Workers with Hearing Impairment," Cincinnati, OH.
- Punch, J. (December 7, 2002). Contemporary issues in hearing aid fittings. Invited presentation to Palm Springs Hearing Seminars, Palm Springs, CA.

#### **REGIONAL/STATE/LOCAL LEVEL**

- Punch, J. (April 26, 1980). Hearing aid evaluation: Development of alternative strategies. Invited participant at meeting of Maryland Speech-Language-Hearing Association, Annapolis, MD.
- Punch, J. (January 22, 1987). Cochlear implants: Case studies. Invited speaker at Indiana University Faculty Colloquium, Bloomington, IN.
- Punch, J. (April 14, 1988). Digital hearing aids. Invited speaker at convention of Indiana Speech and Hearing Association, Ft. Wayne, IN.
- Punch, J. (April 29, 1988). Development and evaluation of a digital hearing aid. Invited speaker at convention of Speech and Hearing Association of Alabama, Orange Beach.
- Punch, J. (July 21, 1988). Signal processing and digital programmable hearing aids. Invited speaker at meeting of Texas Speech and Hearing Association, Vail, CO.
- Punch, J. (September 7, 1988). Digital hearing aids. Invited speaker at meeting of audiology staff of Jewish Hospital and Washington University School of Medicine, St. Louis, MO.

- Punch, J. (September 23, 1988). Digital signal processing. Invited speaker at Cleveland Hearing and Speech Center, Cleveland, Ohio.
- Punch, J. (November 14, 1988). Use of real ear data in hearing aid fitting. Invited speaker at Real Ear Workshop for Aurora Users, Madison, WI.
- Punch, J. (March 10, 1989). Integrating digital hearing aids into clinical practice. Invited speaker at meeting of Kentucky Speech and Hearing Association, Lexington, KY.
- Punch, J. (March 31, 1989). Digital hearing aids. Invited speaker at meeting of Texas Speech and Hearing Association, El Paso, TX.
- Punch, J. (October 26-27, 1990). Software approaches to prescriptive hearing aid fitting. Invited presentation, Iowa Hearing Aid Society, Des Moines, IA.
- Punch, J.L. (June 10-12, 1991). Sound, psychophysics, and audition, and federal and state regulations. Two CAOHC training presentations, Buick-Oldsmobile-Cadillac Plant, Lansing, MI.
- Punch, J. (September 1991). CCC examination review lectures (2), Sponsored by Michigan Speech-Language Hearing Association, Michigan State University.
- Punch, J. (March 12, 1992). Characteristics of well-fitted hearing aids, recent developments in hearing aids, and hearing aid troubleshooting. Invited presentation to Jackson, MI, chapter of Self-Help for the Hard-of-Hearing (SHHH).
- Punch, J.L. (May 2, 1993). Hearing loss and hearing aids. Invited presentation to Michigan Department of Social Services, Lansing, MI.
- Punch, J.L. (July 24, 1993). Roundtable facilitator at Committee on Institutional Cooperation (CIC) Summer Research Opportunities Program (SROP) Conference, Michigan State University.
- Punch, J. (September 18, 1993). CCC examination review lecture, Sponsored by Michigan Speech-Language-Hearing Association, Michigan State University.
- Punch, J. (August 8, 1994). Current audiological research in the U.S. Invited presentation to international visitors (London) to Michigan State University.
- Punch, J. (September 16, 1995). CCC examination review lecture, Sponsored by Michigan Speech-Language-Hearing Association, Michigan State University.
- Punch, J. (March 19, 1999). Student forum. Presented at convention of Michigan Speech-Language-Hearing Association, Troy, MI.
- Punch, J. (June 13, 2000). What about my hearing? Invited presentation at meeting of University Club members, Lunch and Learn Series, Michigan State University, East Lansing, MI.
- Punch, J. (October 23-24, 2000). Current practices in hearing aid selection and fitting, Invited presentation at meeting of Hearing International, East Lansing, MI.
- Punch, J. (October 24, 2001). Hearing loss and hearing aids. Invited presentation at Valley Court Community Center, East Lansing, MI.
- Punch, J. (September 17, 2002). Making the most of your hearing aids. Invited presentation at Foster Community Center. Sponsored by Self Help for the Hard of Hearing, Lansing, MI.
- Punch, J. (September 9, 2003). What did you say? Invited presentation at meeting of University Club members, Lunch and Learn Series, Michigan State University, East Lansing, MI.
- Punch, J. (March 13, 2004). Advances in hearing aids. Invited presentation at convention of Ohio Speech-Language-Hearing Association, Columbus, OH.
- Punch, J. (July 1, 2004). Hearing loss and hearing aids. Invited presentation at Hanna Community Center, East Lansing, MI.

- Punch, J. (October 10, 2006). Hearing conservation. Invited presentation at Department of Music, Michigan State University, East Lansing, MI.
- Punch, J. (June 8, 2007). Technological features of modern hearing aids. Invited presentation at 2007 Golden Grads Alumni Breakfast, Michigan State University, East Lansing, MI.
- Punch, J. (August 22, 2008). Hearing, hearing loss, and the audiogram. Invited presentation at Michigan Association of Disability Examiners, Lansing Community College West Campus, Lansing, MI.
- Punch, J. (October 21, 2008). Hearing Loss and Over-the-Counter Hearing Aids. Invited presentation at Michigan State University Colloquy, University Club, East Lansing, MI.
- Punch, J. (November 10, 2008). Hearing Loss and Hearing Aids. Invited presentation at Foster Community Center, Sponsored by Lansing-Area Chapter of Hearing Loss Association of America (HLAA), Lansing, MI.
- Punch, J. (March 15, 2010). Invited presentation on variety of personal and professional topics, Sponsored by American Sign Language (ASL) class, Lansing Community College, Arts and Sciences Building, Lansing, MI.
- Punch, J. (October 21, 2010). Hearing protection issues. Invited presentation at meeting of Michigan Agricultural Aviation Association, Lansing, MI.
- Punch, J. (March 10, 2011). Wind Turbine Information and Issues Forum. Invited presentation at West Shore Community College, Ludington, MI (Mason County), hosted by Great Lakes Renewable Energy Association (GLREA), A Few Friends for the Environment of the World (AFFEW), and West Shore Community College.
- Punch, J. L. (June 14, 2011). Does wind turbine noise cause adverse health effects? Invited presentation to Zoning Commission, Riga Township, Palmyra, MI (Lenawee County).

## **SUBMITTED PRESENTATIONS**

### **INTERNATIONAL LEVEL**

- Punch, J.L. (November 1982). Computer-based information services for ASHA members. The computer and speech and hearing services: Administrative applications. Miniseminar presented at convention of American Speech-Language-Hearing Association, Toronto, Canada.
- Punch, J.L. (June 24-27, 1993). Aided listener preferences in laboratory vs. real-world environments. Paper presented at International Hearing Aid Conference II: Signal Processing, Fitting, and Efficacy, University of Iowa, IA.

### **NATIONAL LEVEL**

- Stream, R.W., et al. (1968). Hereditary low frequency hearing loss. Paper presented at convention of American Speech and Hearing Association, Denver, CO.
- Punch, J.L., & D'Agostino, A. (1972). Influence of word number on spondee threshold in normal listeners. Paper presented at convention of American Speech and Hearing Association, San Francisco, CA.

- Punch, J.L., & Rushing, C. (November 1974). Effect of poor-ear occlusion on sound field speech discrimination scores. Paper presented at convention of American Speech and Hearing Association, Las Vegas, NV.
- Punch, J.L., & Page, J. (November 1974). Evaluation of the efficiency of three hearing screening measures. Paper presented at convention of American Speech and Hearing Association, Las Vegas, NV.
- Punch, J.L., & Studebaker, G.A. (November 1975). Comparison of hearing aid and hearing aid-processed frequency response in ear canals. Paper presented at convention of American Speech and Hearing Association, Washington, DC.
- Punch, J.L. (1976). Evaluation of the Zwislocki coupler and KEMAR for use in hearing aid processing. Paper presented at 91st Meeting of Acoustical Society of America, Washington, DC.
- Punch, J.L., & Lawrence, W.F. (November 1976). Procedural considerations in the measurement of attack-release times. Paper presented at convention of American Speech and Hearing Association, Houston, TX.
- Punch, J.L., & Ciechanowski, J.M. (November 1977). Reliability of paired-comparison quality judgments in hearing aid evaluation. Paper presented at convention of American Speech and Hearing Association, Chicago, IL.
- Punch, J.L., & Howard, M.T. (1977). Listener-assessed intelligibility of hearing aid-processed speech. Paper presented at 94th Meeting of Acoustical Society of America, Miami Beach, FL.
- Punch, J.L., Montgomery, A.A., & Howard, M.T. (November 1978). Relationships between hearing aid electroacoustic characteristics and speech quality judgments. Paper presented at convention of American Speech and Hearing Association, San Francisco, CA.
- Punch, J.L., Talkin, D.T., & Lawrence, W.F. (November 1978). Measurement and analysis of hearing aid impulse response. Paper presented at convention of American Speech and Hearing Association, San Francisco, CA.
- Punch, J.L., & Parker, C.A. (November 1979). Validity of paired-comparison listener preferences in hearing aid evaluation. Paper presented at convention of American Speech-Language-Hearing Association, Atlanta, GA.
- Punch, J.L., & Beck, E.L. (November 1979). Aided speech quality judgments: Effect of varying low-cutoff frequency. Paper presented at convention of American Speech-Language-Hearing Association, Atlanta, GA.
- Howard, M.T., & Punch, J.L. (November 1980). Spondee threshold as a function of word number. Poster presented at convention of American Speech-Language-Hearing Association, Detroit, MI.
- Beck, L.B., Leatherwood, R.W., & Punch, J.L. (November 1980). Aided low-frequency response: Speech quality and speech intelligibility. Paper presented at convention of American Speech-Language-Hearing Association, Detroit, MI.
- Punch, J.L., Levitt, H., Mahaffey, R.B., & Wilson, M.S. (November 1983). Computer technology: The revolution has started without us. Miniseminar presented at convention of American Speech-Language-Hearing Association, Cincinnati, OH.
- Miyamoto, R.T., McConkey, A.J., Myres, W., Pope, M., & Punch, J.L. (May 1985). Long-term intracochlear implantation in man. Paper presented at meeting of American Neurotologic Society, Miami, FL.

- Punch, J.L., & Miyamoto, R.T. (November 1985). Supplementary use of hearing aids by cochlear implantees. Poster presented at convention of American Speech-Language-Hearing Association, Washington, DC.
- Punch, J.L., McConkey, A., Myres, W., Pope, M.A., & Miyamoto, R.T. (November 1985). Relationships among selected pre- and post-implant measures. Paper presented at convention of American Speech-Language-Hearing Association, Washington, DC.
- Punch, J.L. (November 1985). Matching commercial hearing aids to prescriptive gain and SSPL requirements. Paper presented at convention of American Speech-Language-Hearing Association, Washington, DC.
- Miyamoto, R.T., & Punch, J. (October 1986). Current issues in cochlear implantation of adults and children. Miniseminar presented at Crossroads Conference on Communicative Disorders. National Student Speech-Language-Hearing Association. Purdue University, West Lafayette, IN.
- Punch, J.L., Miyamoto, R.T., & Myres, W.A. (November 1986). Lipreading ability vs. auditory advantage with cochlear implants. Paper presented at convention of American Speech-Language-Hearing Association, Detroit, MI.
- Brown, D.B., Miyamoto, R.T., & Punch, J.L. (November 1986). Intraoperative ABR monitoring during vestibular nerve sections. Paper presented at convention of American Speech-Language-Hearing Association, Detroit, MI.
- Punch, J.L., Stone, R.E., Jr., Horii, Y., & Miyamoto, R.T. (November 1987). Oral-nasal coupling in the speech of cochlear implantees. Poster presented at convention of American Speech-Language-Hearing Association, New Orleans, LA.
- Myres, W.A., Miyamoto, R.T., & Punch, J.L. (November 1987). Auditory performance of a binaural cochlear implant recipient. Paper presented at convention of American Speech-Language-Hearing Association, New Orleans, LA.
- Punch, J., Chi, C., & Patterson, J. (November 1988). Factors affecting individualized target-gain based prescription of hearing aids. Miniseminar presented at convention of American Speech-Language-Hearing Association, Boston, MA.
- Punch, J., Allan, J., Sammeth, C., Palmer, R., Williamson, M., & Hecox, K. (November 1988). High-frequency limiting: Effects on laboratory and real-world performance. Paper presented at convention of American Speech-Language-Hearing Association, Boston, MA.
- Birman, M., Punch, J., & Balmer, W. (November 1988). Equivalent substitution method vs. a commonly used electroacoustic method. Paper presented at convention of American Speech-Language-Hearing Association, Boston, MA.
- Allan, J., Punch, J., & Chi, C. (November 1988). Signal averaging in real-ear measurements. Paper presented at convention of American Speech-Language-Hearing Association, Boston, MA.
- Chi, C., Balmer, W., Punch, J., & Williamson, M. (November 1988). Analysis of hearing aids: Complex signal vs. pure tone. Paper presented at convention of American Speech-Language-Hearing Association, Boston, MA.
- Allan, J., Punch, J., Lasky, R., & Chertoff, K. (November 1989). Effects of stimulus condition on preferred signal-processing characteristics. Paper presented at convention of American Speech-Language-Hearing Association, St. Louis, MO.

- Durrant, J., Punch, J., & Allan, J. (November 1989). Comparison of digital noise reduction algorithm vs. binaural processing. Paper presented at convention of American Speech-Language-Hearing Association, St. Louis, MO.
- Punch, J., Allan, J., & Jenison, R. (November 1989). Comparative evaluation of three binaural hearing aid fitting strategies. Paper presented at convention of American Speech-Language-Hearing Association, St. Louis, MO.
- Punch, J., Levitt, H., & Studebaker, G. (November 1989). Paired-comparison judgments in hearing aid evaluation: A status report. Miniseminar presented at convention of American Speech-Language-Hearing Association, St. Louis, MO.
- Benedict, E., Punch, J., Lasky, R., & Chi, C. (November 1989). The sliding scale: A preference based hearing aid fitting procedure. Paper presented at convention of American Speech-Language-Hearing Association, St. Louis, MO.
- Codd, M.B., Sammeth, C.A., Ochs, M.T., & Punch, J.L. (April 25-28, 1991). Effects of reduced low-frequency amplification on speech recognition thresholds and perceived sound quality in noise. Poster presented at convention of American Academy of Audiology, Denver, CO.
- Punch, J.L. (June 21-23, 1991). Prescriptive hearing aid fitting by parameter adjustment and selection. Paper presented at International Hearing Aid Conference: Signal Processing, Fitting, and Efficacy, University of Iowa, IA.
- Punch, J., & Rakerd, B. (November 1991). Loudness matching of signals in a simulated multimemory hearing aid. Paper presented at convention of American Speech-Language-Hearing Association, Atlanta, GA.
- Punch, J.L., Robinson, D. O., & Katt, D.F. (November 1992). Hearing performance standard for law enforcement officers: Aided and unaided. Poster presented at convention of American Speech-Language-Hearing Association, San Antonio, TX.
- Punch, J.L., & Robb, R. (November 1992). A DSP-based approach to clinical hearing aid research. Poster presented at convention of American Speech-Language-Hearing Association, San Antonio, TX.
- Punch, J.L., & Hooth, A.J. (November 1992). Hearing aid fitting: A validation study. Poster presented at convention of American Speech-Language-Hearing Association, San Antonio, TX.
- Punch, J., Congdon, S., Nelson-Wade, E., & O'Connor, T. (November 1992). Comparison of three clinical hearing aid fitting procedures. Poster presented at convention of American Speech-Language-Hearing Association, San Antonio, TX.
- Hamill, T., & Punch, J. (1994). Toward valid hearing aid evaluation procedures. Instructional course presented at convention of American Academy of Audiology, Richmond, VA.
- Patterson, J.P., & Punch, J. (November 1994). Launching multimedia applications: Issues in design and development. Miniseminar presented at convention of American Speech-Language-Hearing Association, New Orleans, LA.
- Punch, J., & Weinstein, B. (November 1994). Hearing handicap inventory for the elderly: A multimedia version. Miniseminar presented at convention of American Speech-Language-Hearing Association, New Orleans, LA.
- Arsenault, M., & Punch, J. (September 11-13, 1995). Speech recognition performance in noise under monaural and binaural listening conditions. Poster presented at First Biennial

- Conference, Hearing Aid Research and Development, National Institutes of Health, Bethesda, MD.
- Rakerd, B., Punch, J., Hooks, W., & Vander Velde, T. (November 1996). Speech loudness changes associated with a programmable hearing aid. Presented at convention of American Speech-Language-Hearing Association, Seattle, WA.
- Weinstein, B., & Punch, J. (April 2-5, 1998). [www.phd.msu.edu/hearing](http://www.phd.msu.edu/hearing). Presented at convention of American Academy of Audiology, Los Angeles, CA.
- Amlani, A., Punch, J., & Rakerd, B. (March 16-19, 2000). Reliability and transitivity of forced- and unforced-choice paired-comparison preferences. Student Research Forum. Presented at convention of American Academy of Audiology, Chicago, IL.
- Shogren, S., & Punch, J. (March 16-19, 2000). Test-retest reliability of the Multimedia Hearing Handicap Inventory. Student Research Forum. Presented at convention of American Academy of Audiology, Chicago, IL.
- Jarrett, A., & Punch, J. (March 16-19, 2000). Development of a Hearing Risk Inventory for Infants. Student Research Forum. Presented at convention of American Academy of Audiology, Chicago, IL.
- Amlani, A., & Punch, J. (April 4, 2003). A web-based Audibility-Index (AI) calculator. Poster presented at convention of American Academy of Audiology, San Antonio, TX.
- Amlani, A., Punch, J., & Rakerd, B. (April 5, 2003). Polar-pattern preferences in real-world environments. Presented at convention of American Academy of Audiology, San Antonio, TX.
- Joseph, A., Punch, J., & Rakerd, B. (April 5, 2003). Effects of test order & instructions on MCL-S & UCL-S. Poster presented at convention of American Academy of Audiology, San Antonio, TX.
- Punch, J. (April 5, 2003). Hearing standards for hearing-critical occupations. Roundtable presentation at convention of American Academy of Audiology, San Antonio, TX.
- Joseph, A.R., Punch, J.L., Stephenson, M.R., Paneth, N., Murphy, W.J., & Wolfe, E. (November 1, 2005). The effect of training modality on earplug attenuation and fit. Poster presented at annual meeting of Association of Medical Service Corps Officers of the Navy (AMSCON) and Association of Military Surgeons of the United States (AMSUS), Nashville, TN.
- Joseph, A., Stephenson, M., Punch, J., & Murphy, W. (February 17, 2006). The effect of training modality on earplug attenuation. Paper presented at annual conference of National Hearing Conservation Association (NHCA), Tampa, FL.
- Joseph, A.R., Punch, J.L., Stephenson, M.R., & Murphy, W.J. (February 16-18, 2006). The Sound Attenuation Fit Estimator (SAFE<sub>500</sub>). Poster presented at annual conference of National Hearing Conservation Association (NHCA), Tampa, FL.
- Atienza, H., Bhagwan, S., Kramer, A., Morris, A., Pabst, D., Warren, A., Williams, N., Punch, J.L., & Elfenbein, J.L. (April 2-5, 2008). Preferred MP3 listening levels: Earphones and environments. Poster presented at annual conference of American Academy of Audiology, Charlotte, NC.
- Callaway, S.L. & Punch, J.L. (April 2-5, 2008). Prescriptive fitting of over-the-counter hearing aids. Poster presented at annual conference of American Academy of Audiology, Charlotte, NC.



- Punch, J.L., James, R., & Pabst, D. (November 19-21, 2009). Wind turbines: What you can't hear can hurt you. Paper presented at annual convention of American Speech-Language-Hearing Association, New Orleans, LA.
- Alkhamra, R.A., Rakerd, B., Punch, J., Zwolan, T., & Elfenbein, J. (July 24 - 29, 2011). Cognitive effort and the perception of speech by adult cochlear implant users: A survey. Poster presented at Conference on Implantable Auditory Prostheses 2011, Pacific Grove, CA.
- Rakerd, B., Alkhamra, R., Zwolan, T., Punch, J., & Elfenbein, J. (November 17-19, 2011). Cognitive effort and perception of speech by cochlear implant users. Paper presented at annual convention of American Speech-Language-Hearing Association, San Diego, CA.
- Schutte, D., Rivard, J., Dykstra Goris, E., Schmidt, S., Punch, J., & Schutte, B. (March 7-10, 2013). Examining hearing as a potential predictor of agitation in persons with dementia: feasibility of a comprehensive hearing assessment in persons with cognitive impairment, Paper to be presented at annual meeting of Midwest Nursing Research Society, Chicago, IL.
- Hitt, R., Punch, J., & Smith, S.W., Effects of hearing impairment on quality of life. (March 28-30, 2013). Poster presented at D.C. Health Communication Conference, Fairfax, VA.

## **REGIONAL/STATE/LOCAL LEVEL**

- Miyamoto, R.T., and other members of the Cochlear Implant Team (April 17, 1986). Cochlear implants as sensory aids for deaf children. Session presented at meeting of Indiana Speech and Hearing Association, Nashville, TN.
- Robinson, D.O., Punch, J.L., & Katt, D.F. (March 1992). Michigan Law Enforcement Officers Training Council's hearing performance standard: Aided and unaided. Poster presented at Conference of Michigan Speech-Language-Hearing Association, Kalamazoo, MI.
- Punch, J.L., & Jarrett, A.M. (March 25-27, 1993). State hearing aid licensing statutes and the audiologist. Poster presented at Conference of Michigan Speech-Language-Hearing Association, Shanty Creek Resort, Bellaire, MI.
- Weinstein, B., & Punch, J. (May 2-5, 1996). A multimedia approach to marketing hearing health care services for older adults. Presented at convention of New York State Speech-Language-Hearing Association, Albany, NY.
- Punch, J., & Weinstein, B. (March 13-15, 1997). Hearing Handicap Inventory: From milk carton to multimedia. Presented at convention of Michigan Speech-Language-Hearing Association, Kalamazoo, MI.
- Artymovich, A., Frost, T., Jeong, M., Lin, F., Patel, N., & Sweet, E. (Mentors: J. L. Elfenbein & J. Punch) (April 13, 2007). Listening to music: University students' device preferences. Poster presented at University Undergraduate Research and Arts Forum, Michigan State University.
- Artymovich, A., Frost, T., Jeong, M., Lin, F., Patel, N., & Sweet, E. (Mentors: J. L. Elfenbein & J. Punch) (April 13, 2007). University students' patterns of MP3 player use: Is there hearing health risk? Poster presented at University Undergraduate Research and Arts Forum, Michigan State University.
- Atienza, H., Bhagwan, S., Kramer, A., Morris, A., Pabst, D., Warren, A., & Williams, N. (Mentors: J. Punch & J. L. Elfenbein) (March 9, 2007). Output levels of the Apple iPod®

- for three types of earphones. Poster presented at convention of Michigan Speech-Language-Hearing Association, Ypsilanti, MI.
- Atienza, H., Bhagwan, S., Kramer, A., Morris, A., Pabst, D., Warren, A., & Williams, N. (Mentors: J. Punch & J. L. Elfenbein) (April 13, 2007). Output levels of the Apple iPod® for three types of earphones. Poster presented at University Undergraduate Research and Arts Forum, Michigan State University.
- Atienza, H., Bhagwan, S., Kramer, A., Morris, A., Pabst, D., Warren, A., & Williams, N. (Mentors: J. Punch & J. L. Elfenbein) (April 13, 2007). Preferred listening levels of MP3 music with three types of earphones. Poster presented at University Undergraduate Research and Arts Forum, Michigan State University.
- Atienza, H., Bhagwan, S., Kramer, A., Morris, A., Pabst, D., Warren, A., & Williams, N. (Mentors: J. Punch & J. L. Elfenbein) (April 20, 2007). Output levels of the Apple iPod® for three types of earphones. Poster presented at Pediatric and Human Development Research Day, Michigan State University.
- Atienza, H., Bhagwan, S., Kramer, A., Morris, A., Pabst, D., Warren, A., & Williams, N. (Mentors: J. Punch & J. L. Elfenbein) (April 20, 2007). Preferred listening levels of MP3 music with three types of earphones. Poster presented at Pediatric and Human Development Research Day, Michigan State University.
- Punch, J. (February 7, 2014). Wind turbine noise: Can sounds we can't hear hurt us? Lecture presented at Research Colloquium, Department of Communicative Sciences and Disorders, Michigan State University.

### **MASTER'S THESES DIRECTED**

- D'Agostino, A.D. (1972). Effect of word number on spondee threshold in normal listeners (Master's thesis, University of Mississippi, 1972).
- Guckert, S.A. (1973). The development and evaluation of a filtered speech test for use in hearing screening. (Master's thesis, University of Mississippi, 1973).
- Rushing, C. (1973). The effects of single ear occlusion on sound field speech discrimination scores (Master's thesis, University of Mississippi, 1973).
- Shogren, S. (1999). Test-retest reliability and clinical utility of the Multimedia Hearing Handicap Inventory (Master's thesis, Michigan State University, 1999).
- Callaway, S.L. (2007). How well do over-the-counter hearing aids benefit the hearing impaired? (Master's thesis, Copenhagen University, Denmark, 2007). Thesis co-adviser, Copenhagen University: Niels Reinholt Petersen, Ph.D.

### **Ph.D. DISSERTATIONS DIRECTED**

- Amlani, A. (2003). Paired-comparison preferences for polar directivity patterns in different listening environments (Doctoral dissertation, Michigan State University, 2003).

Joseph, A. (2004). Attenuation of passive hearing protection devices as a function of group versus individual training. (Doctoral dissertation, Michigan State University, 2004).

## **HONORS AND AWARDS**

Fellow, American Speech-Language-Hearing Association

American Men and Women of Science

Dedicated Service Award, Michigan Law Enforcement Officers Training Council, January 1993

Editor's Award, American Auditory Society, September 1987. Relative effects of low-frequency amplification on syllable recognition and speech quality, *Ear and Hearing*, 7, 57-62 (1986), with Lucille B. Beck

Who's Who in America

The National Distinguished Service Registry: Speech, Language and Hearing

Student Research Forum Award for submission to convention of American Academy of Audiology. Sara Shogren & Jerry Punch, Test-retest reliability of the Multimedia Hearing Handicap Inventory, March 17, 2000, Chicago, IL.

Merit Recognition Award for poster presented at University Undergraduate Research and Arts Forum, Michigan State University (Authors: Atienza, H., Bhagwan, S., Kramer, A., Morris, A., Pabst, D., Warren, A., & Williams, N.; Mentors: J. Punch & J. Elfenbein), April 13, 2007. Output levels of the Apple iPod® for three types of earphones.

James Jerger Award for Excellence in Student Research for poster presented at convention of American Academy of Audiology. Susanna L. Callaway & Jerry L. Punch, Prescriptive fitting of over-the-counter hearing aids, April 2-5, 2008, Charlotte, NC.

## **PROFESSIONAL MEMBERSHIPS/CREDENTIALS/AFFILIATIONS**

### **INTERNATIONAL ORGANIZATIONS**

Member, Editorial Board, *Iranian Audiology*; October 2003-present.

### **NATIONAL ORGANIZATIONS**

Member, American Speech-Language-Hearing Association (ASHA)

Certificate of Clinical Competence (CCC) in Audiology, ASHA

Member, American Auditory Society

Fellow, American Academy of Audiology

Member, Acoustical Society of America, 1976-1991; 2000-present

### **STATE ORGANIZATIONS**

Member, Michigan Speech-Language-Hearing Association (MSHA); early 1990s; currently a non-member

Hearing Aid Dealers License (#17000751A), State of Indiana, May 16, 1985-June 30, 1988

Hearing Aid Dealers License (#3501003452), State of Michigan, November 2001-November 2005

Audiologist License (#1601000461), State of Michigan, May 2007-December 2009

## **COMMITTEE APPOINTMENTS, CONSULTANTSHIPS, AND RELATED PROFESSIONAL SERVICE ACTIVITIES**

### **INTERNATIONAL LEVEL**

Member, Hearing International, September 2000-2007; Member, Committee on Management and Rehabilitation of Hearing Loss, Hearing International, September 2000-2007; Chair, Subcommittee on High-Quality, Low-Cost Hearing Aids  
Invited reviewer of promotional materials of Dr. Wahab Owolawi Owolawi, King Saud University, Saudi Arabia, June 2007

### **NATIONAL LEVEL**

Congressional Action Contact (CAC) of ASHA, July 1972-June 1973  
ASHA Committee on Audiometric Evaluation, January 1978-June 1980  
Chair, ASHA Task Force on Information Services, 1982-83  
Ex-officio Member: ASHA Committee on Scientific Affairs, ASHA Committee on Personnel and Service Needs in Communication Disorders, ASHA Committee on Educational Technology, July 1982-July 1984  
Consultant to Deafness, Speech and Hearing Publications (DSHP) Board, ASHA, October 1982-July 1984  
Chair, ASHA Task Force on Personnel Supply, Demand and Utilization, 1983-1984  
Chair, Forum on Allied Health Data, Spring 1983-Spring 1984  
Steering Committee, American Speech-Language-Hearing Foundation Conference, "The Personal Computer as a Professional Tool," 1983-1984  
Member, ASHA Task Force on Personnel Supply, Demand and Utilization, July 1984-April 1986  
Editorial Consultant, *Journal of the Acoustical Society of America*, 1987-1989, June 2014-present  
Reviewer of NIH-SBIR research grant proposals, Washington, DC, March 14-15, 1995  
Reviewer of House Ear Institute research proposal, March 1997  
Editorial Consultant, *Journal of Speech-Language-Hearing Research* (periodic)  
Editorial Consultant, *Ear and Hearing* (periodic)  
Editorial Consultant, *American Journal of Audiology* (periodic)  
Editorial Consultant, *Iranian Audiology* (periodic)  
Editorial Consultant, *International Journal of Audiology* (March 2006-present)  
Editorial Consultant, *Pediatrics*, February 2013  
Editorial Consultant, *International Journal of Environmental Research and Public Health*, June 2014-present

## **STATE LEVEL**

Member, Clinic, Hospital, and Private Practice Ad Hoc Committee, Indiana Speech and Hearing Association, September 1986-October 1987

Member, Program Committee, Indiana Speech and Hearing Association, 1986-1987, 1987-1988

Member, Michigan Speech-Language-Hearing Association, 1991-1997

Member, Audiology Committee, Michigan Speech-Language-Hearing Association, 1991

Vice-President for Membership, Executive Council, Michigan Speech-Language-Hearing Association, January 1991-December 1992

Consultant, Michigan Law Enforcement Officers Training Council re hearing standards, 1991-1992; 2003.

Michigan representative for Membership Recruitment Network, American Academy of Audiology, 1992

Consultant to Department of Veterans Affairs (DVA), Audiology Section, Ann Arbor, Michigan, 1992

Consultant to Michigan Department of Social Services, Hearing and Hearing Aid Reimbursement Program, Lansing, Michigan, 1993-1995

Reviewer, Sertoma Communicative Disorders Scholarship Applications, Michigan Region, Sertoma International, 1994-95, April 1994

Participant in first MSHA-sponsored Legislative Day, May 4, 1994, contacting offices of Senators Debbie Stabenow and Fred Dillingham and Representative Lynn Jondahl

Member, Advisory Board for Occupational Noise-Induced Hearing Loss, State of Michigan, 1995-present

Member, Audiology Advisory Panel, Michigan Department of Community Services, 1995-1996

Participant, with Nigel Paneth, M.D., in gaining approval of Michigan Chapter of American Academy of Pediatrics to implement resolution that pediatricians refer all children to audiologists for audiological and hearing aid evaluations, 1997

Consultant to Pyle, Rome, Lichten, & Eurenberg, P.C., Attorneys at Law, Boston, MA, re cases of occupational hearing loss in law enforcement officers and firefighters, January 1999-January 2002.

Consultant, SHL, Contractor with Commonwealth of Massachusetts, Evaluation of hearing standards for police officers and firefighters, May 28, 2002

Member and Chair, Wind and Health Technical Work Group, Bureau of Energy Systems, Department of Energy, Labor, and Economic Growth (DELEG), State of Michigan, March 2010-June 2011

## **UNIVERSITY LEVEL**

Participant in CIC Predoctoral Fellows Conference, Michigan State University, November 1993

Participant in Focus Group meeting of Committee on Improving, Evaluating and Rewarding Teaching (CIERT), Michigan State University, December 1993

Member, Ad Hoc Committee on University-Wide Performance Indicators, Michigan State University, May-June 1995

Member, Clinical Services Group, Evaluating Quality Outreach Working Group, Michigan State University, February-May 1999

Faculty Tenure Committee, Michigan State University, 1993-1995  
University Committee on Research in Human Subjects (UCRIHS), Fall Semester 2000, January 2011-present  
Member, Ad Hoc Working Group on Institutional Indicators for Evaluating Quality Outreach, Michigan State University, February-May, 1999  
Faculty Participant in Freshman Orientation Program, Michigan State University, June 29, 1999  
Member (interim), Faculty Council, Michigan State University, January-May 2005  
Member (interim proxy), Academic Council, Michigan State University, January-May 2005  
Member, University Committee on Academic Policy (UCAP), May 2007-May 2009  
Representative, Academic Council (from University Committee on Academic Policy), August 2007-May 2008

## **COLLEGE/DEPARTMENTAL LEVEL**

Departmental committees (Michigan State University): Audiology Faculty Position Search Committee (1993-94); Clinical Affairs Committee (1990-94); Clinical Specialist Position Search Committee (1993); Curriculum Committee (1991-92); Faculty Advisory Committee (1990-91); Graduate Studies and Admissions Committee (1990-2010, periodically serving as Chair); Neuropathology Faculty Position Search Committee (1990-91)  
College committees (Michigan State University): Intracollegiate Planning Committee (1992-1994); CAS Technology Advisory Committee (2002-2003)  
Revised Departmental Handbook, Fall 2003  
College Reappointment, Tenure, and Promotion Committee (2006-2007)  
Member, Admissions Committee, Department of Communicative Sciences and Disorders, 2008  
Member, Committee to Review Health Communication Program, College of Communication Arts and Sciences, September 2008-January 2009  
Member and Chair, Admissions Committee, Department of Communicative Sciences and Disorders, 2009

## **MEDIA EVENTS**

Interview on WJLM-TV, Channel 6, Lansing, Michigan, Better Hearing and Speech Month, May 20, 1997.  
Interview on WLAN-TV, Channel 6, Lansing, Michigan, Segment on Hearing Loss, February 4, 1999.  
Interview with Broadcast/Photo Division of MSU's Office of University Relations, Dennis Krolik, February 5, 1999.  
*MSU State News*, Study Finds Hearing Loss in Youth, September 15, 2005.  
*Detroit News*, Hearing under Assault, January 3, 2006.  
*Wall Street Journal*, Behind the Music, iPods and Hearing Loss, January 10, 2006.  
Newstips provided to Melanie Lynne Trusty (via e-mail), MSU Journalism student, February 6, 2006, concerning Apple's iPod lawsuit.  
Interview with MSU Focal Point on Listening with iPods, Jamie Lauren Kandel, February 22, 2006.

Not All Hearing Aids Are Created Equal, article appearing in:

*MSU News*, <http://news.msu.edu/story/5621/>, August 13, 2008

*ScienceDaily*, <http://www.sciencedaily.com/releases/2008/08/080813164634.htm>, August 14, 2008

*CHINA ORG.CN*, [http://www.china.org.cn/health/2008-08/14/content\\_16223170.htm](http://www.china.org.cn/health/2008-08/14/content_16223170.htm), August 14, 2008

*Detroit Free Press*,

<http://www.freep.com/apps/pbcs.dll/article?AID=/20080815/NEWS06/808150346/1008/NEWS06>, August 15, 2008 (appearing under title, Drugstore Hearing Aids May Do Harm)

*Hearing Review Insider*, [http://www.hearingreview.com/insider/2008-08-28\\_08.asp](http://www.hearingreview.com/insider/2008-08-28_08.asp); August 28, 2008

(This article also appeared on numerous additional Web sites and blogs.)

Interview with Naomi Schalit, Executive Director and Senior Reporter, Maine Center for Public Interest Reporting, Hallowell, ME on topic of wind-turbine noise, July 27, 2010.

Interview with Bob Allen, Interlochen Public Radio, Interlochen, Michigan, on topic of health effects of wind-turbine noise, January 14, 2011.

Interview with Mark Bashore, Wind Turbines Pose Health Risks, Current State, WKAR, Michigan State University, February 11, 2014.

Interviews on WKAR-AM Radio Call-In Show, Michigan State University:

<u>Topic/Theme</u>	<u>Date</u>
Better Hearing and Speech Month	May 1991
Audiology Topics	September 3, 1992
Audiology Topics	March 31, 1993
Better Hearing and Speech Month	May 17, 1993
Hearing Topics: Children and Adults	July 9, 1993
Hearing Aids	September 27, 1993
Audiology Topics	January 10, 1994
Audiology Topics	March 2, 1994
Better Hearing and Speech Month	May 3, 1994
Hearing Loss and Hearing Aids	July 19, 1994
Auditory Perception Disorders and Hearing Aids	December 29, 1994
Hearing, Hearing Loss, Prevention of Hearing Loss	March 30, 1995
Better Hearing and Speech Month	May 1, 1997
Better Hearing and Speech Month	May 10, 1999
Better Hearing and Speech Month	May 16, 2000

## BOOK REVIEWS

*Probe Microphone Measurements: Hearing Aid Selection and Assessment* (1992), by H. Gustav Mueller, David B. Hawkins, & Jerry L. Northern, San Diego, CA: Singular Publishing Group, Inc. In (1992) *Ear and Hearing*, 13, 467-468.

## RESEARCH PROPOSALS, GRANTS, AND CONTRACTS

- Faculty Research Grant, "Investigation of Adequacy of Audiometric Calibration in Hearing Conservation Programs," University of Mississippi, 1971-72 (funded)
- Faculty Research Grant, "Development and Evaluation of a Filtered Speech Screening Test," University of Mississippi, 1972-73 (funded)
- Principal Investigator, Veterans Administration Contract, "The Clinical and Acoustic Parameters of Hearing Aid Effectiveness," University of Maryland, October 1976-June 1980 (funded)
- Project Director, "Speech-Language Pathology and Audiology: An Educational Perspective for the Future," American Speech-Language-Hearing Association, July 1980-June 1981 (funded \$222,433)
- Co-author of, and consultant to, project funded by Department of Education, "Leadership Training in Computer Technology: A Tri-Level Multidisciplinary Program for Special Educators and Speech-Language Pathologists and Audiologists," ASHA National Office, January 1983-June 1984 (funded \$122,875)
- Co-author of, and consultant to, project funded by Department of Education, "Validation of a Model to Evaluate Microcomputer Software for Communicatively Handicapped Students," ASHA National Office, December 1983-June 1984 (funded \$154,489)
- Primary writer of a grant proposal funded by NINCDS-NIH, "Comparison of Sensory Aids in Deaf Children," Indiana University School of Medicine, January 1987 (funded \$348,869)
- Principal Investigator of project funded by NIDCD-NIH, "A DSP-Based Approach to the Study of Hearing Aid Fitting," Michigan State University, January 1991-December 1992 (funded \$63,946)
- Project Director, "Development of a Multimedia-Based Version of the Hearing Handicap Inventory for the Elderly," All-University Outreach Grant, Michigan State University, July 1992-December 1993 (funded \$14,947)
- Project Director, "Accommodation of the Communicative Needs of Hearing-Impaired Students and Faculty at Michigan State University," Project funded (for support of Graduate Assistant) by Office of the Provost, Michigan State University, January 1995-August 1995 (funded)
- Member, Project Team, Strategic Partnership Grant to Fund Hearing Research Center, Michigan State University, July 1, 1996-June 1997 (funded ~\$210,000)
- Lead Investigator (with Brad Rakerd and Aryn Amlani), "Intelligibility Testing of Digitized Sound Files Provided by IC Tech," Contract with IC Tech, Inc., Okemos, MI, February 6-May 31, 2001 (funded)
- NIH-NIDCD Proposal, "Real-World Based Fitting of a Multimemory Hearing Aid," 2002 (unfunded)



Sponsor, NIH fellowship (1 F31 DC05429-01) to Michigan State University to support doctoral dissertation project of Aryn Amlani, "Predicting Speech Intelligibility from Directivity Index," February 2002-January 2003 (funded \$25,783)

NIH-STTR Fast-Track Proposal, "High-Quality, Affordable Hearing Aids for World Markets," 2003 (unfunded)

NIH-NINCD Proposal, "Development of a Quality-of-Life (QoL) Inventory for Hearing-Impaired Adults," 2009 (unfunded)

### **PROGRAM SITE VISITS**

Department of Audiology and Speech Sciences, Purdue University, October 19-21, 1994 (Invited by School of Liberal Arts)

Selected Audiology programs in state of Louisiana, commissioned by Louisiana Board of Regents (March 18-23, 2002; January 15, 2003); reviewed programs include Louisiana Tech University, Louisiana State University, and Louisiana State University Health Sciences Center

### **ACCOMPLISHMENTS AS STAFF MEMBER OF ASHA NATIONAL OFFICE (1980-84)**

Served as Project Director during first year of a federally funded three-year study of service and training needs in the profession of speech-language pathology and audiology

Conducted study of employment and salary trends in the profession, May 1982

Edited a comprehensive review of literature relative to incidence and prevalence of speech, language and hearing disorders entitled, "The Prevalence of Communicative Disorders: A Review of the Literature"

Co-compiled a comprehensive report on federal and private funding sources in speech, language, and hearing, "Profiles of Funding Sources"

Served as ASHA representative to Forum on Allied Health Data (FAHD), a consortium of federal, professional and private organizations devoted to establishing databases on manpower in medically related health professions; Chair of FAHD, May 1983-May 1984

Coordinated survey of graduate training programs for publication, *Guide to Graduate Education* 1983

Coordinated development of guidelines for conduct of ASHA surveys by committees, boards, councils, and National Office staff members

Developed proposal for comprehensive investigation of work force supply and demand in speech-language pathology and audiology profession (approved by ASHA Executive Board)

Instituted "Data Page" feature in *Asha*, a regular feature devoted to reporting data on ASHA membership, the speech-language pathology and audiology profession, and the communicatively impaired

Coordinated development, creation, publication, and distribution of *Research Bulletin*, newsletter for member and nonmember scientists

Conducted survey and completed co-authored report on consolidation of ASHA's scholarly publications, "National Office Report of Journals Survey"

Conducted survey and completed report on *dsh Abstracts*, Report of 1980 *dsh Abstracts* Survey  
Coordinated special issue of *Asha* on science theme (December 1984); participated in interview,  
"Asha Interviews: Janis Costello, Jerry Punch, Teris Schery, Lawrence Shriberg;" and co-  
authored "Data Page" feature on that issue  
Developed proposal for initiating computer-based information services for use of ASHA  
members, and coordinated ASHA Task Force on Information Services (1982-83)  
Coordinated effort to structure and initiate the Research Information Service (RIS), a  
computerized database containing information on research career opportunities, research  
technology resources, and research funding opportunities

### MISCELLANEOUS PROJECTS

Web site (<http://www.msu.edu/~asc/hhi>); originally developed in conjunction with Hearing  
Research Center, Michigan State University, September 1997; includes Web-based  
Hearing Handicap Inventory  
Hearing Handicap Inventory: Multimedia Version, developed in February 1998 by J.L. Punch  
and B.E. Weinstein. Interactive CD-ROM program designed to screen for hearing  
handicap, and as an outcomes-assessment measure, in young and elderly adult  
populations; available through MSU's Instructional Media Center  
Developed ASC 843C, Hearing Amplification I (<http://vu.msu.edu/preview/asc843c/>), online  
course offered for credit and non-credit, beginning summer 2002-fall 2006  
Developed ASC 843I, Hearing Amplification II (<http://vu.msu.edu/preview/asc843i/>), online  
course offered for credit and non-credit beginning summer 2002-spring 2006

### FORENSIC ACTIVITIES

Legal deposition, Dana Rowe v. North Reading Fire Department, Boston, MA, July 29, 1999  
Legal deposition, Boston Police Department v. Richard Dahill, Boston, MA, July 30, 1999  
Legal Consultant, Montana Advocacy Program, Phil Hohenlohe, Staff Attorney, Helena, MT,  
2004-2009 (no testimony given)  
Legal Consultant, Stephen J. Vujcevic v. Oglebay Norton Marine Services Company, LLC et al.,  
Eastern District of Michigan, Southern Division, May 2007-December 2008  
Legal Consultant, Bonfiglio v. Northridge Church, et al, Hohauser Law Firm, Rochester,  
Michigan, May 2008-December 2009  
Reviewed and commented on hearing standard proposed by American College of Occupational  
and Environmental Medicine (ACOEM), at invitation of Daniel G. Samo, MD, Medical  
Director, Health Promotion and Corporate Services, Northwestern Memorial Hospital,  
Northwestern University Feinberg School of Medicine, February-May 2009  
Legal testimony, Application of Highland Wind Farm, LLC, to construct a 102.5 MW wind  
electric generation facility and associated electric facilities, to be located in the Towns of  
Forest and Cylon, St. Croix County, Wisconsin; Hearing by Public Service Commission,  
Madison, Wisconsin, Docket 2535-CE-100, Towns of Forest and Cylon represented by  
Glenn Reynolds; Direct testimony, 8/30/12 (PSC Ref# 171133); Surrebuttal testimony,  
10/3/12 (PSC Ref# 173730); Testimony re Shirley Wind, 1/15/13 (PSC Ref# 17149),  
Rebuttal testimony, 1/22/13 (PSC Ref# 179627).

Legal testimony on behalf of Union Neighbors United, Inc., Robert and Diane McConnell, and Julia F. Johnson, In the Matter of the Application of Champaign Wind LLC to Install Electricity Generating Wind Turbines in Champaign County, Ohio, Hearing by Power Siting Board, Columbus, Ohio, Case No. 12-0160-EL-BGN, Union Neighbors United, Inc. represented by Jack A. Van Kley and Christopher A. Walker; Direct testimony, 10/31/12; Oral deposition, 11/7/12; Cross examination, 11/19/12.

Legal deposition, Michigan, 7/24/13, Charles and Debby Wiltzer, and Seager Wiltzer (represented by Chester E. Kasiborski, Jr., and Susan Hlywa Topp, vs. Heritage Sustainable Energy and Heritage Stoney Corners Wind Farm LLC (represented by Robert G. Chaklos, Jr., and Kurt M. Bowden).

Legal testimony, Michigan, 12/5/13, Daubert Hearing, Charles and Debby Wiltzer, and Seager Wiltzer (represented by Chester E. Kasiborski, Jr., and Susan Hlywa Topp) vs. Heritage Sustainable Energy and Heritage Stoney Corners Wind Farm LLC (represented by Robert G. Chaklos, Jr., and Kurt M. Bowden); qualified as expert witness, 12/16/13.

Retained as expert witness, Iowa, Reuters v. Osceola Windpower; Abby Walleck, attorney for plaintiff, 6/30/14; Steve Hamilton currently serves as plaintiff's attorney.

Legal testimony on behalf of United Citizens for Livingston County (represented by Phillip Luetkehans) vs. Pleasant Ridge Wind Farm (Invenergy represented by Michael S. Blazer), Livingston County Zoning Board of Appeals, Livingston County, Illinois; Direct testimony, 1/21/15; cross-examination 1/22/15; additional cross-examination, 2/23/15.

Legal deposition on behalf of Daniel Brian Williams (represented by James McCandlish) vs. Invenergy LLC, Portland, Oregon, 7/2/15.

Legal testimony on behalf of Town of Somerset, Niagara County, New York, 12/22/15-1/11/16 (represented by Mark Davis) vs. Lighthouse Wind LLC.

Presentation, Wind Turbines: What's the Noise All About? in Henry County, Indiana, October 15, 2016.

Letter to Board of Zoning Appeals, Warren County, Indiana, November 4, 2016.

### **CONTINUING EDUCATION ACTIVITIES**

**(Listed in chronological order, since 1990; does not include attendance at annual professional conventions or local hearing aid update meetings, at which attendance was regular prior to retirement)**

- ASHA Audio Teleconference, Amplification for Difficult to Fit Clients: A Case Study Exchange, July 20, 1990
- Van Riper Lectures in Speech Pathology and Audiology, Signal Processing Hearing Aids: Bridging the Clinical-Research Gap, Western Michigan University, Kalamazoo, MI, October 4-5, 1990
- Introduction to the IBM Mainframe Computing System, Michigan State University, Fall 1990
- International Hearing Aid Conference: Signal Processing, Fitting, and Efficacy, University of Iowa, Iowa City, IA, June 21-23, 1991
- MSUnet: An Introduction to Communications and Networking, Michigan State University, Summer 1991

- Using Multimedia for Instruction and Presentation, Michigan State University, Fall 1991
- Au.D. Audio Teleconference, Sponsored by Purdue University, October 30, 1991
- Middle Ear Disorders in Children: An Update on Treatment and Management, ASHA Teleconference, February 26, 1993
- Participant, Meet Michigan, guided tour of northeastern Michigan outreach programs receiving support from Michigan State University, May 10-13, 1993
- International Hearing Aid Conference II: Signal Processing, Fitting, and Efficacy, University of Iowa, Iowa City, IA, June 24-27, 1993
- Lilly Faculty Seminar Programs, Sheila Tobias, Conversations about Teaching and Learning: Testing Workshop, Michigan State University, January 21, 1994
- Lilly Faculty Seminar Programs, Ann Austin, Teaching for Understanding: Building on What Students Bring to the Classroom, Michigan State University, February 11, 1994
- Telecommunication and Community Health Care for Michigan, Conference sponsored by Michigan State University, June 17-18, 1994
- Student Information System Training Course, Michigan State University, August 16 & 18, 1994
- Leadership Workshop for Chairs and Directors, Sponsored by Office of the Provost, Michigan State University, September 16, 1994
- Leadership Workshop for Chairs and Directors, Sponsored by Office of the Provost, Michigan State University, October 14, 1994
- Facilitator, Faculty retreat in Department of Audiology and Speech Sciences, October 22, 1994
- Expanding Educational Opportunities Conference, Sponsored by ASHA, Bethesda, MD, January 28-29, 1995
- Leadership Workshop for Chairs and Directors, Sponsored by Office of the Provost, Michigan State University, February 3, 1995
- Leadership Workshop for Chairs and Deans, Peter Seldin and Linda Annis, Improving Teaching: What Works and What Doesn't, Sponsored by Office of the Provost, Michigan State University, February 3, 1995
- Workshop, Sponsored by National Consortium for Universal Newborn Screening, TEOAE-Based Universal Newborn Hearing Screening, Georgetown University Medical Center, Washington, DC, November 16-18, 1995
- Visited University College London, London, England, to establish Study Abroad semester program for MSU undergraduate students, June 24-July 6, 1996
- Leadership Workshop for Chairs and Deans, Lou Anna K. Simon, The Continuing Dialogue on Motivating Change, Sponsored by Office of the Provost, Michigan State University, August 29, 1996
- Leadership Workshop for Chairs and Deans, Jude West, Leadership Skills in a Changing Academic Environment, Sponsored by Office of the Provost, Michigan State University, October 2, 1996
- Leadership Workshop for Chairs and Deans, Robert Church, Enhancing the Teaching Mission with Technology: Issues and Challenges, Sponsored by Office of the Provost, Michigan State University, November 12, 1996

- Leadership Workshop for Chairs and Deans, Terry Curry, Faculty Performance Reviews, Sponsored by Office of the Provost, Michigan State University, February 19, 1997
- Seminar, Internet Tools for Distance Learning, Michigan State University, April 17, 1997
- Conference, Reaching for Cultural and Social Diversity in Speech Pathology and Audiology: Assessing Cultural and Social Values, Ronald Jones, Ph.D., Co-sponsored by Department of Audiology and Speech Sciences, Michigan State University, and Speech Pathology and Audiology Program, Norfolk State University, Michigan State University, April 21, 1997
- Conference, Preventive Ethics, Sponsored by Office of the Provost, Michigan State University, April 23, 1997
- Graduate Program Director Workshop on Financing Graduate Education, Sponsored by the Graduate School, Michigan State University, April 30, 1997
- Leadership Workshop for Chairs and Directors, Sponsored by Office of the Provost, Michigan State University, September 23, 1997
- Leadership Videoconference, The Nonprofit Leader of the Future: A Seminar in Social Sector Leadership, Peter Druker, Sponsored by Office of the Provost, Michigan State University, September 25, 1997
- Leadership Workshop for Chairs and Directors, Drug-Free Workplace, ADA, Sexual Harassment Prevention, and EAP Issues, Sponsored by Office of the Provost, Michigan State University, October 23, 1997
- Communication and Aging: Interdisciplinary Approaches to Keep Elders Communicating, Van Riper Lectures in Speech Pathology and Audiology, Western Michigan University, October 24, 1997
- Leadership Workshop for Chairs and Directors, Technology and Computing at the Unit Level: Issues and Opportunities, Paul Hunt, Sponsored by Office of the Provost, Michigan State University, November 11, 1997
- Instructional Videoconference, Putting Your Course Online, Sponsored by Office of the Provost, Michigan State University, November 13, 1997
- Workshop, Using Computers in Instruction, Sponsored by Office of the Provost, Michigan State University, November 18, 1997
- Workshop, Technology in the Classroom, Frank Tate, Sponsored by Instructional Media Center, Michigan State University, January 12, 1998
- Workshop, Effective Teaching, Sandi Smith, Sponsored by Office of the Provost, Michigan State University, January 29, 1998
- Workshop, Writing Faculty Performance Reviews, Terry Curry, Sponsored by Office of the Provost, Michigan State University, February 2, 1998
- Workshop, Getting Things Done: Delegating and Accountability, Michael Polzin and Tina Riley, Sponsored by Office of the Provost, Michigan State University, February 18, 1998
- Workshop, Getting New Faculty Started, Ann E. Austin, Sponsored by Office of the Provost, Michigan State University, October 23, 1998
- Workshop, Faculty Course Portfolios: From Teaching to Learning, Deborah M. Langsam, Sponsored by Office of the Provost, Michigan State University, October 26, 1998

- Workshop, Using Learning Theory to Inform Teaching Practice, Marilla Svinicki, Sponsored by Office of the Provost, Lilly Faculty Seminar Programs, Michigan State University, November 6, 1998
- Workshop, Writing Faculty Performance Review: What We Have Learned in One Year, Terry Curry, Sponsored by Office of the Provost, Michigan State University, February 9, 1999
- Workshop, The Chairs Plague: Dealing with Difficult People, George A. Lopez, Sponsored by Office of the Provost, Michigan State University, March 3, 1999
- Workshop, Survival Skills for Administrators, Kristina Gunsalus, Sponsored by Office of the Provost, Michigan State University, April 28, 1999
- Audiology Curriculum Conference, Wendell Johnson Speech and Hearing Center, University of Iowa, July 9-11, 1999
- Participant, Parent Panel for Parent Orientation Program (POP), Michigan State University, June 29, 1999
- Educational Seminar, Directional Microphone Usage in Hearing Aids, Unitron Industries, Inc., Grand Rapids, MI, July 8, 1999
- Academic Leaders Program, Presented by Faculty of the Wharton School of Business and Institute for Research on Higher Education, University of Pennsylvania, Grand Rapids, MI, August 19-21, 1999
- Leadership Workshop for Chairs and Deans, Lou Anna K. Simon, The Continuing Dialogue on Motivating Change, Sponsored by Office of the Provost, Michigan State University, September 28, 1999
- Sexual Harassment Workshop, Sponsored by Office of the Provost, Michigan State University, October 8, 1999
- Dreamweaver2, Levels 1 and 2 (Web Publishing Software), Seminars for Faculty on Instructional Technology, Libraries, Computing and Technology, Michigan State University, January 6, 2000
- Virtual Universities: Online and On Target?, Video Teleconference, Sponsored by Dallas County Community College District, February 3, 2000
- Fulbright Scholar Program, Sponsored by Michigan State University Office of International Studies and Programs, May 9, 2000
- Blackboard II (Advanced Features), Mary Longcore, Sponsored by Office of Libraries, Computing and Technology, Michigan State University, July 2000
- Creating a High Impact Classroom Climate, James Eison, Lilly Faculty Seminar Programs, Michigan State University, September 15, 2000
- Copyrights and Wrongs for the Web and the Classroom, Michael Seadle, Explorations in Instructional Technology Series, Michigan State University, September 22, 2000
- Blackboard I (October 26, 2000) & Blackboard II (November 15, 2000), Ben Goodsell, Sponsored by Office of Libraries, Computing and Technology, Michigan State University
- Cerumen-Related Hearing Aid Repairs, Offered by Michael Phillips, Phonak, Inc., East Lansing Marriott, November 10, 2000
- Teaching Online, One-week seminar offered by William A. Draves, LERN organization (<http://www.lern.org>), February 5-9, 2001

- Using Video to Enhance Lectures and Courses, WKAR Staff, Michigan State University, March 23, 2001
- Visited Singapore to attend meeting of *Hearing International*, March 2001
- Unison Digital Systems Training Seminar, Unitron Hearing, August 19, 2002
- Angel A and B, Anne Hunt, Sponsored by Office of Libraries, Computing and Technology, Michigan State University, May 6, 2003
- Web Page Design, Sponsored by Office of Libraries, Computing and Technology, Michigan State University, June 3 & 5, 2003
- Web Accessibility, Sponsored by Office of Libraries, Computing and Technology, Michigan State University, June 6, 2003
- Fireworks MX, Level 1, Sponsored by Office of Libraries, Computing and Technology, Michigan State University, June 16, 2003
- Dreamweaver MX, Level 1, Sponsored by Office of Libraries, Computing and Technology, Michigan State University, June 17 & 19, 2003
- Dreamweaver MX, Level 2, Sponsored by Office of Libraries, Computing and Technology, Michigan State University, July 24, 2003
- Socrates in Cyberspace, Cecil Mackey, Explorations in Instructional Technology Series, Michigan State University, October 3, 2003
- Grant-Writing Strategies in the Social Sciences and Education, Sponsored by The University Research Council and The Office of Faculty and Organizational Development, Kellogg Center, Michigan State University, March 30, 2004
- Three Proven Approaches to Web-Supported Teaching, MSU Virtual University Design and Technology (vuDAT) Breakfast Series, February 28, 2005
- Maintaining, Storing and Using Sensitive Data, Sponsored by MSU Libraries, Computing & Technology, October 25, 2005
- Human Participant Protections Education for Research Teams, Sponsored by the National Cancer Institute, NIH, Certification awarded December 19, 2005
- Output Levels of Personal Stereo Systems, and What Audiologists Need to Know, Brian Fligor, Live Online Videoconference Sponsored by Audiology Online eLearning, February 22, 2006
- Constructing Knowledge through Inquiry: Teaching Students the Art of Asking Questions in the Disciplines, Laura Greene, Sponsored by Office of the Provost, Michigan State University, May 16, 2006
- Grants.gov Workshop, Sponsored by Office of Contracts and Grants Administration, Michigan State University, August 16, 2006
- LSE Workshop, Sponsored by Department of Epidemiology, Michigan State University, July 10, 2007
- Developing and Operating an Online Course for Over 1000 Students per Year, Sponsored by Explorations in Instructional Technology Series, Michigan State University, November 9, 2007
- LSE Workshop, Sponsored by Department of Epidemiology, Michigan State University, November 29, 2007

- Hear the Difference: What Audiologists Need to Know about the Baha Implantable Hearing Solution. Workshop sponsored by Cochlear Americas, Lansing, Michigan, May 7, 2008
- Visited University of Dakar (UCAD) to assist in establishing a special-education program at the graduate level, March 23-June 2, 2008 (with Ida Stockman, Ph.D.)
- Completed continuing-education unit (CEU) requirements for continued certification by ASHA and licensing by state of Michigan as an audiologist (completed 3.5 CEUs; 3.0 CEUs required for certification and licensing), December 2008
- CITI Collaborative Institutional Training Initiative (most recent update), April 1, 2009
- Data Analysis Using SPSS, Sandra Herman, Sponsored by Center for Statistical Training & Consulting, Michigan State University, October 9, 2009
- Funding and Proposal Writing Resources, Jon Harrison, MSU Libraries, Michigan State University, September 18, 2009
- Workshop: The Grant Process, Maria Lapinski, College of Communication Arts and Sciences, Michigan State University, October 23, 2009
- Completed continuing-education unit (CEU) requirements for continued certification by ASHA as an audiologist, December 2011
- IRB Retreat, Michigan State University, June 8, 2013
- IRB Administrative Workshops, Kuali Coeus IRB Blueprint Sessions 1 and 2, Michigan State University, October 31 and November 4, 2013
- Audiology Online, Continuing-education credits completed toward renewal of ASHA Certificate of Clinical Competence through 2017, October 2014
- Hearing Technology: Stream On, Conference sponsored by Department of Otolaryngology, University of Michigan, East Lansing Marriott, East Lansing, Michigan, October 14, 2015