

Curriculum Vitae for Benjamin W.Y. Hornsby

PERSONAL INFORMATION

Business Address:

Vanderbilt University Medical Center
Department of Hearing and Speech Sciences
Graduate Studies and Research
Room 8310 Medical Center East, South Tower
1215 21st Ave. South, Nashville, TN 37232-8242

Phone: (615) 936-5132

Fax: (615) 936-6914

Email: ben.hornsby@vanderbilt.edu

EDUCATIONAL BACKGROUND

Institution	Year	Degree
Maryville College, TN	1985	B.A.
Vanderbilt University	1995	M.S.
Vanderbilt University	2002	Ph.D.

LICENSURE AND CERTIFICATION

Certificate of Clinical Competence in Audiology, American Speech-Language- Hearing Association, 1996-present.

Tennessee State License in Audiology, 1996-2004.

ACADEMIC APPOINTMENTS/POSITIONS

Vanderbilt University School of Medicine: Assistant Professor, 2006-Present.

Vanderbilt University School of Medicine: Research Assistant Professor, 2002-2006.

Vanderbilt University, Kennedy Center Member, 2004-Present

EMPLOYMENT EXPERIENCE

Vanderbilt University School of Medicine, Department of Audiology and Speech Pathology, Nashville, TN, Associate Professor, 2014-present.

Vanderbilt University School of Medicine, Department of Audiology and Speech Pathology, Nashville, TN, Assistant Professor, 2006-2014.

Vanderbilt University School of Medicine, Department of Audiology and Speech Pathology, Nashville, TN, Research Assistant Professor, 2002-2006.

Vanderbilt University School of Medicine, Department of Audiology and Speech Pathology, Nashville, TN, Research Assistant, 1995-2002.

Clinical Audiologist, Vanderbilt Bill Wilkerson Center, Nashville, TN (8/95-9/97).

PROFESSIONAL ACTIVITIES

Intramural

Member, Vanderbilt University Institutional Review Board, Behavioral Science Committee, 2006-present

Member Delegate, Vanderbilt University Graduate Faculty Delegate Assembly, 2005-2010.

Member, Vanderbilt University Doctor of Audiology (AuD) Committee, 2004-present.

Extramural

Member, American Speech Language-Hearing Association, 1993-present.

Member, American Academy of Audiology, 1994-present.

Member, Research Presentation Review committee, 2004 Annual Meeting

Moderator, Research Presentations, 2004 Annual Meeting

Member, AAA Research Committee, 2008-2011

Member, Audiology Research Conference Organizing Committee, 2009-10

Member, AAA Educational Grants Review Committee, 2010-2012

Member, American Auditory Society, 2002-present.

Moderator, Technical Sessions, 2005 Annual Meeting

Member, Acoustical Society of America, 1997-2012.

Member planning committee for the 145th meeting of the Acoustical Society of America (Spring, 2003) in Nashville, TN

Member, International Society of Audiology, 2006-2011.

Member, ANSI S3.5 (1997) American National Standards Institute, Methods for Calculation of the Speech Intelligibility Index. 2009-present.

Technical Co-chair, 2010 International Hearing Aid Conference (IHCON).

Reviewer, U.S. Department of Veterans Affairs Office of Research and Development Rehabilitation Summer Merit Review (August, 2009-Present)

Senior Editor

Trends in Amplification, 2005-2008.

Guest Editor

Ear and Hearing, 2009-2011

Section Editor: Amplification

Ear and Hearing, 2012-Current

Ad-Hoc Reviewer

Journal of the American Academy of Audiology, 1997- present.

Journal of the Acoustical Society of America, 1997-present.

Ear and Hearing, 1997-present.

Journal of Speech Language Hearing Research, 2007- present.

International Journal of Audiology, 2007- present.

Editorial Advisory Board

Hearing Journal, 2003-2012

PROFESSIONAL AWARDS AND HONORS

2002	American Auditory Society Mentored Student Research Award recipient (Spring, 2002 meeting).
2000	Biennial International Hearing Aid Conference (IHCON 2000) student scholarship recipient.
1995	Jay W. Sanders 1995 Honors in Audiology Award presented by Vanderbilt University and The Bill Wilkerson Center.
1993-1995	1993-1995 Graduate Training Full Tuition Scholarship, Vanderbilt University.
1985	Cum Laude Graduation, Maryville College.

TEACHING ACTIVITIES

Graduate School Courses: As part of my teaching responsibilities the following courses were substantially revised (HRSP 217 and AUD 5328) or developed (AUD 5327).

Course Number	Title	Credit Hours	Years Taught
AUD 5327	Hearing Loss and Speech Understanding	3	2004-Present
AUD 5328	Psychoacoustics	3	2002-Present
Doctoral Seminar	Advanced Psychoacoustics	3	2008-present (offered bi-annually)
AUD 5310	Measurement of Hearing	3	2010-Present

RESEARCH PROGRAM

Title: Minimal Competing Masker: Distance and Hearing Loss Effects on Adaptive Directional Benefit

Funding Agency: Phonak, Inc

Amount of funding: \$38,700

Role: Co-Investigator

Funding period: 10/01/2003-09/30/2004

Percent Effort: 10%

Title: Effects of Volume Control Adjustment and Monaural/Binaural Directional Microphone Use on HA Benefit

Funding Agency: Siemens, Inc

Amount of funding: \$20,000

Role: Principal Investigator

Funding period: 2/1/04-5/31/05

Percent Effort: 30% (1/04-7/04)

Title: Bandwidth and Digital Feedback Reduction in Current Digital Hearing Aids

Funding Agency: GN Resound

Amount of funding: \$50,000

Role: Co-Investigator

Funding period: 02/01/04-12/31/05

Percent Effort: 13% (2/04-1/05)

Title: Factors Affecting Directional Hearing Aid Performance in Children
Funding Agency: Department of Education
Amount of funding: \$444,207
Role: Co-Investigator
Funding period: 09/01/02-08/31/06
Percent Effort: 15-35%

Title: Benefits of Digital Noise Reduction in Hearing Aids
Funding Agency: Siemens, Inc
Amount of funding: \$11,200
Role: Principal Investigator
Funding period: 2/1/06-1/31/08
Percent Effort: 5%

Title: Hearing Loss and the Utility of Speech Information
Funding Agency: NIH/NIDCD R03-DC006576-01A1
Amount of funding: \$224,726
Role: Principal Investigator
Funding period: 8/1/2004- 7/31/08
Percent Effort: 25%

Title: Hearing Loss, Cognitive Processing and Listening Effort Throughout the Day
Funding Agency: Starkey, Inc
Amount of funding: \$35,000
Role: Principal Investigator
Funding period: 11/1/07-12/31/08
Percent Effort: 12%

Title: Variability Among Hearing Aid Users: Speech Recognition in Noise and Benefits from Amplification
Funding Agency: Starkey, Inc
Amount of funding: \$35,400
Role: Principal Investigator
Funding period: 03/01/08-05/31/09
Percent Effort: 15%

Title: Appropriate Directional Hearing Aid Switching in School Aged Children
Funding Agency: Department of Education
Amount of funding: \$447,564
Role: Co-Investigator
Funding Period: 11/1/06-4/30/10
Effort: 7% (11/06-7/09)

Title: Open Canal Verification & Examination of Listening Effort
Funding Agency: Phonak, Inc
Amount of funding: \$119,325

Role: Co- Investigator
Funding period: 01/1/08-6/30/10
Percent Effort: 12%

Title: Hearing loss, hearing aids and mental fatigue
Funding Agency: Starkey, Inc
Amount of funding: \$57,738
Role: Principal Investigator
Funding period: 10/25/10-5/31/13
Percent Effort: 7%

Title: Vehicle Sound Level Study
Funding Agency: Nissan Technical Center of North America
Amount of funding: \$44,326
Role: Co- Investigator
Funding period: 2/1/02-6/30/13
Percent Effort: 10% (2/12-8/12)

Title: Blind Pedestrians' Access to Complex Intersections
Funding Agency: NIH/NEI/Sub with Western Michigan University 5R01EY012894
Amount of funding: \$624,866
Role: Consultant
Funding Period: 7/1/07-6/30/13
Effort: 4% (9/12-6/30/13)

Title: Fatigue and Listening: Quantifying the Relationship between Speech Processing and Mental Fatigue.
Funding Agency: ASHFoundation
Amount of Funding: \$10,000
Role: Principal Investigator
Funding period: 11/01/12-11/01/13
Percent Effort: 0%

Title: A Taxonomy of fatigue: Relations to hearing loss
Funding Agency: Oticon, Inc
Amount of Funding: \$7,220
Role: Principal Investigator
Funding period: 05/01/13-06/30/13
Percent Effort: 20%

Title: A comparison of subjective preference for Siemens Micon first fit and NAL-NL2 prescriptive fitting algorithms.
Funding Agency: Siemens, Inc
Amount of Funding: \$19,404
Role: Principal Investigator
Funding period: 07/01/13-06/30/14
Percent Effort: 20% (7/01/13-10/30/13)

Title: Fatigue and Listening effort in school-aged children with hearing loss
Funding Agency: IES
Amount of funding: \$1,495,212
Role: Co- Investigator
Funding period: 07/01/11-06/30/15
Percent Effort: 5% (11/1/11 – 6/30/16)

Title: Development of a Monitor for Circadian Regulation of Human Thermogenesis and Metabolism
Funding Agency: Vanderbilt Discovery Grant
Amount of Funding: \$100,000
Role: Co- Investigator
Funding period: 06/01/13-05/15/15
Percent Effort: 0%

Title: Quantifying the "Fatigue Factor": Hearing Loss, Speech Processing and Fatigue
Funding Agency: NIH/NIDCD 1R21DC012865-01A1
Amount of funding: \$412,593
Role: Principal Investigator
Funding period: 8/1/13- 7/31/16
Percent Effort: 35%

Title: Development of a Hearing Loss Related Fatigue Scale (FS-HL)
Funding Agency: Starkey, Inc
Amount of funding: \$32,240
Role: Principal Investigator
Funding period: 8/1/14- 10/31/15
Percent Effort: 10%

Title: Measurement of Listening Fatigue in School-Age Children with Disabilities
Funding Agency: IES
Amount of funding: \$1,600,000
Role: Co- Investigator
Funding period: 07/01/15-06/30/19
Percent Effort: 15%

PUBLICATIONS

Refereed Journal Articles

Hornsby, B. and Ricketts, T. (2001). The effects of compression ratio, presentation level, and signal-to-noise ratio on speech recognition in normal-hearing subjects. The Journal of the Acoustical Society of America, 109(6), 2964-2973.

- Hornsby, B., and Ricketts, T. (2003). The effects of hearing loss on the contribution of high- and low- frequency speech information to speech understanding. The Journal of the Acoustical Society of America, 113(3), 1706-1717.
- Grantham, D., Hornsby, B., and Erpenbeck, E. (2003). Auditory spatial resolution in horizontal, vertical, and diagonal planes. The Journal of the Acoustical Society of America, 114(2), 1009-1022.
- Ricketts, T., and Hornsby, B. (2003). Distance and reverberation effects on directional benefit. Ear and Hearing, 24(6), 472-483.
- Ricketts T., Hornsby B., & Johnson, E. (2005). Adaptive Directional benefit in the near field: Competing sound angle and level effects. Seminars in Hearing, 26(2), 59-69.
- Ricketts T. and Hornsby B. (2005). Sound quality measures for speech in noise through a commercial hearing aid implementing “digital noise reduction”. Journal of the American Academy of Audiology, 16, 272-279.
- Hornsby, B., Trine, T. and Ohde, R. (2005). The Effects of High Presentation Levels on Consonant Feature Transmission in Normal-Hearing Subjects. The Journal of the Acoustical Society of America, 118(3), 1719-1729.
- Ricketts T., Henry P., and Hornsby B. (2005). Application of Frequency Importance Functions to Directivity for Prediction of Benefit in Uniform Fields. Ear and Hearing, 26(5), 473-486.
- Hornsby, B., and Ricketts, T. (2006). The effects of hearing loss on the contribution of high- and low- frequency speech information to speech understanding II. Sloping Hearing Losses. The Journal of the Acoustical Society of America, 119(3), 1752-1763.
- Ricketts T. and Hornsby B. (2006). Directional Hearing Aid Benefit in Listeners with Severe to Profound Hearing Loss. International Journal of Audiology, 45(3), 190-197.
- Hornsby, B., Ricketts, T. and Johnson, E. (2006). The Effects of Speech and Speech-like Maskers on Unaided and Aided Speech Recognition in Persons with Hearing Loss. Journal of the American Academy of Audiology, 17(6), 432-447.
- Mueller, H.G., Weber, J., and Hornsby, B. (2006). The effects of digital noise reduction on the acceptable noise level. Trends in Amplification, 10(2), 83-94.
- Hornsby, B. and Ricketts, T. (2007). Directional Benefit in the presence of speech and speech-like maskers. Journal of the American Academy of Audiology 18(1), 5-16.

- Hornsby, B. and Ricketts, T. (2007). Effects of noise source configuration on directional benefit using symmetric and asymmetric directional hearing aid fittings. *Ear and Hearing*, 28(2),177-186.
- Johnson, E., Ricketts, T. and Hornsby, B. (2007). The Effect of Digital Phase Cancellation Feedback Reduction Systems on Amplified Sound Quality. *Journal of the American Academy of Audiology* 18(5):404-16.
- Ricketts, T. and Hornsby, B. (2007). Estimation of Directional Benefit in Real Rooms: A Clinically Viable Method. In R.C. Seewald (ed.) *Hearing Care for Adults 2006: Proceedings of the First International Conference*, Phonak, Chicago.
- Hornsby, B. and Mueller, H.G. (2008). User preference and reliability of bilateral hearing aid gain adjustments. *Journal of the American Academy of Audiology* 19(2): 158-170.
- Mueller, H.G., Hornsby, B., and Weber, J. (2008). Using trainable hearing aids to examine real-world preferred gain. *Journal of the American Academy of Audiology* 19(10): 758-773.
- Hornsby, B. and Dundas, A. (2009). Factors Affecting Prevalence Estimates of Dead Regions in Adults with Hearing Loss. *Journal of the American Academy of Audiology* 20(4): 251-263.
- Stach., B., Hornsby, B., Rosenfeld, M., and DeChicchis, A. (2009). The Complexity of Auditory Aging. *Seminars in Hearing* 30(2): 94-111.
- Johnson, E., Ricketts, T. and Hornsby, B. (2009). The effect of extending high-frequency bandwidth on the Acceptable Noise Level (ANL) of hearing-impaired listeners. *International Journal of Audiology* 48(6): 353 – 362.
- Hornsby, B., Johnson, E. and Picou, E. (2011). Effects of degree and configuration of hearing loss on the contribution of high- and low- frequency speech information to bilateral speech understanding. *Ear and Hearing* 32(5): 543-555.
- Picou, E., Ricketts, T., and Hornsby, B. (2011). Visual cues and listening effort: Individual variability. *Journal of Speech, Language and Hearing Research* 54(5): 1416-1430.
- Grantham, D.W., Ashmead, D., Haynes, D., Hornsby, B., Labadie, R. and Ricketts, T. (2012). Horizontal-plane localization in single-sided deaf adults fitted with a bone-anchored hearing aid (Baha). *Ear and Hearing* 33(5), 595-603.
- Ashmead, D., Grantham, D.W., Maloff, E.S., Hornsby, B., Nakamura, T., Davis, R., Pampel, F., and Rushing, E.G. (2012). Auditory Perception of Motor Vehicle Travel Paths. *Human Factors* 54(3): 437-453.

- Hornsby, B. (2013). The Effects of Hearing Aid Use on Listening Effort and Mental Fatigue Associated With Sustained Speech Processing Demands. Ear and Hearing, 34(5), 523-534. doi: 10.1097/AUD.0b013e31828003d8
- Picou, E., Ricketts, T., and Hornsby, B. (2013). How Hearing Aids, Background Noise, and Visual Cues Influence Objective Listening Effort. Ear and Hearing 34(5), e52-e64.
- Hornsby, B. W. Y., Werfel, K., Camarata, S., & Bess, F. H. (2014). Subjective Fatigue in Children With Hearing Loss: Some Preliminary Findings. American Journal of Audiology, 23(1), 129-134. doi: 10.1044/1059-0889(2013/13-0017)
- Moore, T., Hood, L., and Hornsby, B. (2014). Estimates of cochlear compression using distortion product otoacoustic emissions and growth of forward masking. Ear and Hearing, 35(6), 711-714.
- Bess, F.H. & Hornsby, B. (2014). Listening Can Be Exhausting: Fatigue in Children and Adults with Hearing Loss. Ear and Hearing. 35(6), 592-599.
- Bess, F. H., Gustafson, S. J., & Hornsby, B. W. (2014). How Hard Can It Be To Listen? Fatigue in School-Age Children with Hearing Loss. Journal of Educational Audiology, 20, 1-14.
- Hornsby, B.W.Y. and Kipp, A.M. (2016). Subjective ratings of fatigue and vigor in adults with hearing loss are driven by perceived hearing difficulties not degree of hearing loss. Ear and Hearing, 37(1), e1-e10. doi: 10.1097/aud.0000000000000203
- Gustafson, S. J., Davis, H., Hornsby, B. W. Y., & Bess, F. H. (2015). Factors Influencing Hearing Aid Use in the Classroom: A Pilot Study. American Journal of Audiology, [Advance online publication], 1-6.
- Bess, F.H., Gustafson, S.J., Corbett, B., Lambert, W., Camarata, S., & Hornsby, B. (2015). Salivary Cortisol Profiles of Children with Hearing Loss. Ear and Hearing. E-pub ahead of print. doi:10.1097/aud.0000000000000256
- Hornsby, B., Bess, F.H., & Naylor., G. (2016, in press). Hearing Loss and Fatigue- A Taxonomy of fatigue concepts. Ear and Hearing.
- Bess, F.H., Key, A. S., Gustafson, S.J., & Hornsby, B. (2016, in review). Auditory P300 as a measure of listening fatigue in children. Journal of Speech, Language and Hearing Research.
- Pichora-Fuller, K., Kramer, S. Eckert, M., Edwards, B., Hornsby, B., Humes, L., ... Windgfield, A. (2016, in review). Hearing impairment and cognitive energy: The Framework for Understanding Effortful Listening (FUEL). Ear and Hearing.

Hornsby, B.W.Y., Ashmead, D., and Bess, F.H. (in preparation). Perceived Effort, Not Performance, Modulates Subjective Fatigue Due to Sustained Speech Processing Demands in Adults with Hearing Loss.

Hornsby, B., Doss, Z., and Smith, A. (in preparation). The relationship between listening effort and mental fatigue.

Hornsby, B., and Rokuson, J. (in preparation). MP3 and beyond: Word recognition testing without the compact disc player.

Hornsby, B. and Picou, E. (in preparation). The effect of hearing aid use on cognitive processing throughout the day.

Hornsby, B. (in preparation). Effect of visual cues on the contribution of high- and low-frequency speech information to persons with flat and sloping hearing losses.

Hornsby, B., Rosenfeld, M., Gudlewski, K. and Bratt, G. (in preparation). Using the SII to predict Hearing Aid Benefit.

Hornsby, B. (in preparation). Effects of DNR on speech understanding at high presentation levels.

Non- Refereed Journal Articles

Hornsby, B., Kelly, T., and Hall, J.W. III. (1996). Normative data for five FDA-approved distortion product OAE systems. The Hearing Journal, 49(9), 39-46.

Hornsby, B. (2004). The Speech Intelligibility Index: What is it and what's it good for? The Hearing Journal, 57(10), 10, 12, 14, 16-17.

Hornsby, B. (2004). Amplification Issues and Considerations in the Teenage Population. Perspectives on Hearing and Hearing Disorders in Childhood, ASHA Special Interest Division 9- Newsletter, 14(2), 8-12.

Nelson, P., Hornsby, B., Moore, B.C. and Trine, T. (2007). Understanding Individual Differences in Aided Speech Recognition and Hearing Aid Success. The Hearing Review, 14(6), 30, 32-33.

Bentler, R., Eiler, C., Hornsby, B., Moodie, S., Olson, L., and Valente, M. (2007). Practical Approaches to Evidence-based Practice. The Hearing Review, 14(6), 36, 40-41.

Hornsby, B. (2010). Hearing Loss & Listening Effort: New Benefits from Hearing Aids. Minnesota Academy of Audiology Newsletter, Summer, 2010. Retrieved from <http://www.minnesotaudiology.org/newsletter/printpage.php?page=sum10/scitech.php>[7/1/2010 7:52:54 AM].

Hornsby, B. (2010). Understanding the Problems with Aided Speech Understanding. Starkey Audiology Series. Vol.2 (3). Retrieved from http://www.starkeypro.com/public/pdfs/sas/SAS_2010_v2i3.pdf [9/16/2010]

Bess, F. H., & Hornsby, B. W. (2014). The Complexities of Fatigue in Children with Hearing Loss. SIG 9 Perspectives on Hearing and Hearing Disorders in Childhood, 24(2), 25-39.

Book Chapters

Mueller, H. G. and Hornsby, B. (2002). Selection and verification of maximum output. In: Valente M, ed. Strategies for selecting and verifying hearing aid fittings (2nd edition). New York: Thieme Medical Publishers, Inc.

CONTRIBUTED PRESENTATIONS

Kelly, T., Hornsby, B., Kang, J. and Hall, J.W. III. (1995, April). Distortion product otoacoustic emissions (DPOAE): Comparative normative data for five commercially available instruments. Poster session presented at the American Academy of Audiology 7th Annual Convention, Dallas, TX.

Hall, J.W. III, Hornsby, B. and Kelly, T. (1996, February). Similarities and differences in distortion product otoacoustic emissions (DPOAE) among five commercially-available devices. Poster session presented at The Association for Research in Otolaryngology, ST. Petersburg Beach, FL.

Trine, T.D., and Hornsby, B. (1997, April). Loudness growth measures: Are they worth the time? Poster session presented at the American Academy of Audiology 8th Annual Convention, Fort Lauderdale, FL.

Trine, T.D. and Hornsby, B. (1997, September). Measurement vs prediction of loudness growth function for the selection of hearing aid characteristics. Poster session presented at the NIDCD/VA 2nd Biennial Hearing aid Research and Development Conference, Bethesda, MD.

Grantham, D. W. and Hornsby, B. (1999). "Minimum audible movement angle in vertical, horizontal, and oblique planes: Effects of velocity and frequency content," J. Acoust. Soc. Am. 105, 1344.

Hornsby, B., Trine, T.D., Grantham, D.W., Ohde, R.N., and Ashmead, D.H. (1999, November). The effects of high-intensity speech on consonant feature transmission in normal hearing subjects. Poster session presented at the 138th meeting of the Acoustical Society of America, Columbus, Ohio.

Hornsby, B. and Ricketts, T. (2000, August). The effects of multichannel compression, presentation level, and signal-to-noise ratio on speech recognition in normal-

- hearing subjects. Paper presented at the International Hearing Aid Conference, Lake Tahoe, CA.
- Hornsby, B., and Ricketts, T. (2001, November). Factors affecting the benefits of amplified high- and low-frequency speech. Paper presented at the American Speech-Language-Hearing Association, New Orleans, LA.
- Hornsby, B., and Ricketts, T. (2002, March). The usability of high-frequency information: Hearing loss effects. Poster session presented at the spring meeting of the American Auditory Society, Scottsdale, AZ.
- Ricketts, T.A., Henry, P and Hornsby, B. (2002, August). Frequency effects and directional hearing aid benefit. Paper presented at the International Hearing Aid Research Conference, Lake Tahoe, CA.
- Hornsby, B. and Ricketts, T. (2002, August). Distance and reverberation effects on directional benefit. Poster presented at the International Hearing Aid Conference, Lake Tahoe, CA.
- Ricketts, T.A. and Hornsby B. (2003, March). Adaptive Directional Hearing Aids: Benefits and Limitations. Paper presented at the American Auditory Society Annual Meeting, Scottsdale, AZ.
- Hornsby, B. and Ricketts, T. (2004, April). High-frequency hearing loss and frequency importance. Paper presented at the American Academy of Audiology 16th Annual Convention, Salt Lake City, UT.
- Hornsby, B. and Ricketts, T. (2004, March). High-frequency Hearing loss: The Utility of High and Low-frequency Information. Paper presented at the American Auditory Society Annual Meeting, Scottsdale, AZ.
- Hornsby, B. and Ricketts, T. (2005, March). Benefits of Bilateral Use of Directional Microphones. Paper presented at the American Auditory Society Annual Meeting, Scottsdale, AZ.
- Hornsby, B. and Ricketts, T. (2005, April). Consistency and impact of user volume control adjustments. Paper presented at the American Academy of Audiology 17th Annual Convention, Washington, D.C.
- Hornsby, B. and Ricketts, T. (2006, March). Directional benefit in the presence of speech and speech-like maskers. Paper presented at the American Auditory Society Annual Meeting, Scottsdale, AZ.
- Hornsby, B. and Ricketts, T. (2006, August). Factors affecting the benefit of asymmetric directional fittings. Paper presented at the International Hearing Aid Conference, Lake Tahoe, CA.

Johnson, E., Ricketts, T.A., Hornsby B., and Federman, J. (2008, June). Modern Digital Hearing Aid Feedback Suppression Systems: Measures of Gain Margin and Effect on Amplified Sound Quality. Poster presented at the XXIX International Congress of Audiology Annual Meeting, Hong Kong.

Hornsby, B. and Picou, E. (2008, August). Effect of hearing aid use on cognitive processing and listening effort in everyday settings. Poster presented at the International Hearing Aid Conference (IHCON), Lake Tahoe, CA.

Hornsby, B. and Picou, E. (2009, March). Hearing loss, hearing aids and cognitive processing throughout the day. Paper presented at the American Auditory Society Annual Meeting, Scottsdale, AZ.

Pollman, M., Hornsby, B. and Hood, L., (2010, March). Efferent effects and speech understanding. Poster presented at the American Auditory Society Annual Meeting, Scottsdale, AZ.

Amornpongchai, G., Ohde, R., Ricketts, T., and Hornsby, B. (2010, April). The Effect of Visual Cues on Speech Recognition Performance in Noise at High Presentation Levels. Poster presented at the American Academy of Audiology Annual Convention, San Diego, CA.

Lim, S., Grantham, D.W., Ricketts, T., and Hornsby, B. (2010, April). The Effect of Asymmetric Microphones on Localization Ability in Open-Fit Hearing Aids. Poster presented at the American Academy of Audiology Annual Convention, San Diego, CA.

Hornsby, B. (2011, March). Effect of hearing aid use on mental fatigue. Paper presented at the American Auditory Society Annual Meeting, Scottsdale, AZ.

Moore, T., and Hornsby, B. (2011, March). Predicting Hearing Aid Benefit from Speech Recognition Measures. Poster presented at the American Auditory Society Annual Meeting, Scottsdale, AZ.

Kim, H., Ricketts, T., Tharpe, A. and Hornsby, B (2011, April). Test-Retest Reliability of Open Hearing Aid Fittings in Children. Poster presented at the American Academy of Audiology Annual Convention, Chicago, IL.

Hornsby, B. (2012, August). Tired of Listening: Subjective and Objective Measures of Hearing Related Fatigue. Paper presented at the International Hearing Aid Conference (IHCON), Lake Tahoe, CA.

Moore, T., Hornsby, B. and Hood, L. (2013, March). Psychophysical and Otoacoustic Emission Estimates of Cochlear Compression. Poster presented at the American Auditory Society Annual Meeting, Scottsdale, AZ.

Doss, Z., and Hornsby, B. (2013, March). Fatigue and Listening. Poster presented at the American Auditory Society Annual Meeting, Scottsdale, AZ.

Hornsby, B. and Kipp, A. (2013, March). Hearing Loss, Hearing Handicap, and Subjective Fatigue. Poster presented at the American Auditory Society Annual Meeting, Scottsdale, AZ.

Rentmeester, L., Shuster, A., Hornsby, B., and Bess, F.H. (2013, November). Measures of Fatigue in Children With and Without Hearing Loss. Poster presented at the American Speech-Language-Hearing Association convention, Chicago, IL.

Bess, F.H., Hornsby, B., Camarata, S. and Werfel, K. (2013, November). Measuring Fatigue in School-Age Children with Hearing loss. Paper presented at the American Speech-Language-Hearing Association convention, Chicago, IL.

Rentmeester, L., Shuster, A., Key, A., Hornsby, B., and Bess, F.H. (2014, March). Objective Measures of Fatigue in Children With and Without Hearing Loss. Poster presented at the American Academy of Audiology convention, Orlando, FL.

Stangl, S., Tharpe, A., and Hornsby, B. (2014, March). Accuracy of Audiometry Conducted Outside of a Sound-Treated Booth: An Assessment of the KUDUwave. Poster presented at the American Academy of Audiology convention, Orlando, FL.

Hornsby, B. (2014, August). Hearing Loss, Effort and Speech-Processing Related Fatigue. Poster presented at the International Hearing Aid Conference, Lake Tahoe, CA.

Gustafson, S., Key, A., Hornsby, B., & Bess, F.H. (2014, August). Objective Assessment of Speech in Noise Abilities & the Effect of Amplification in Children with Hearing Loss. Poster presented at the International Hearing Aid Conference, Lake Tahoe, CA.

Headley, A., Fustos, E., Gustafson, S.J., Hornsby, B.W., & Bess, F.H. (2015). Profiling Hearing Aid Use in School-Age Children with Mild-to-Moderate Hearing Loss. Poster presented at the Early Hearing, Detection & Intervention (EHDI) Meeting, Louisville, KY.

Headley, A., Gustafson, S., Hornsby, B., and Bess, F.H. (2014, November). A Comparison of Parent Proxy & Self-Reports of Fatigue in Children with Hearing Loss. Poster presented at the American Speech-Language-Hearing Association convention, Orlando, FL.

Davis, H., Gustafson, S. Hornsby, B., and Bess, F.H. (2015, November). Beyond the Fitting Appointment: Patterns of Hearing Aid and FM System Use in the Classroom. Poster presented at the American Academy of Audiology convention,

San Antonio, TX.

Headley, A., Fustos, E., Gustafson, S.J., Hornsby, B.W.Y., & Bess, F.H. (2015). Profiling Hearing Aid Use in School-Age Children with Mild-to-Moderate Hearing Loss. Poster presented at the Early Hearing, Detection & Intervention (EHDI) Meeting, Louisville, KY.

Hornsby, B. and Moore, T. (2015, March). Hearing Loss, Mental Effort and Fatigue. Poster presented at the American Auditory Society Annual Meeting, Scottsdale, AZ.

Schwarcz, S. and Hornsby, B. (2015, March). Cognitive Complexity, Cognitive Effort and Mental Fatigue. Poster presented at the American Auditory Society Annual Meeting, Scottsdale, AZ.

INVITED PRESENTATIONS

Hornsby, B. (1997, April) Loudness growth measures: Clinical benefits vs clinical efficiency. Invited paper presented at the Tennessee Association of Audiologists and Speech Language Pathologists State Convention, Chattanooga, TN.

Hornsby, B. (2002, October). High-frequency Speech Information: To Amplify or Not To Amplify. That is the Question. Invited paper presented at the Tennessee Association of Audiologists and Speech Language Pathologists (TAASLP) Fall 2002 meeting, Franklin, TN.

Hornsby, B. and Ricketts, T. (2004, August). Effects of Informational Masking on Hearing Aid Benefit. Invited paper presented at the International Hearing Aid Conference, Lake Tahoe, CA.

Hornsby, B. (2006, March). Factors Affecting the Benefit of Amplified Speech for Persons with Hearing Loss. Invited paper presented at the National Center for Rehabilitative Auditory Research (NCRAR) Research Seminar. Portland, OR.

Hornsby, B. (2006, April). Factors Affecting the Speech Understanding of Older Adults with Hearing Loss. Invited paper presented at the California Speech Language and Hearing Association (CSHA) Annual meeting, San Francisco, CA.

Hornsby, B., Ricketts, T. and Armstrong, S. (2007, April). Extending Hearing Aid Bandwidth: Benefits and challenges. Invited paper presented at the American Academy of Audiology 19th Annual Convention, Denver, CO.

Hornsby, B. (2008, June). Effects of noise configuration and type on binaural benefit with asymmetric directional fittings. Invited paper presented at the 155th Meeting of the Acoustical Society of America, Paris, France.

Hornsby, B. (2008, November). [Hearing Loss, Hearing Aids and Listening Effort](#). Invited paper presented at the Berkley University Ear Club meeting, Berkley, CA.

Hornsby, B. (2009, May). [The relationship between hearing loss and listening effort: Consequences and potential remediation](#). Invited paper presented at the 2nd Biennial Modern Developments in Audiology Conference, Nashville, TN.

Hornsby, B. (2009, June). [Open Canal \(OC\) Fittings: Potential Impact of Cochlear Dead Regions on OC Candidacy](#). Invited online presentation through AudiologyOnline. http://www.audiologyonline.com/ceus/recordedcoursedetails.asp?class_id=13851

Hornsby, B. (2010, August). [Recent Research on Factors that Can Influence Speech Processing](#). Invited presentation via Audiology Online Continuing Education (CEU) Course. http://www.audiologyonline.com/ceus/recordedcoursedetails.asp?class_id=16788

Hornsby, B. (2010, August). [Hearing Loss and Listening Effort](#). Invited presentation at the National Center for Rehabilitative Auditory Research (NCRAR) Research Seminar. Portland, OR.

Hornsby, B. (2011, May). [Amplification and Listening Fatigue: A Hearing Aid “Pick me up”?](#) Invited paper presented at the 3rd Biennial Modern Developments in Audiology Conference, Nashville, TN.

Hornsby, B. (2012, November). [Hearing Loss and Mental Fatigue: Tired from Listening](#). Invited presentation at the National Centre for Audiology (NCA), University of Western Ontario, London, Ontario.

Hornsby, B. (2013, February). [Word Recognition Testing: The Puzzling Clinical Disconnect from Best Practice](#). Invited presentation via Audiology Online Continuing Education (CEU) Course. <http://www.audiologyonline.com/audiology-ceus/course/vanderbilt-audiology-s-journal-club-22139>

Hornsby, B. (2013, April). [Hearing loss and fatigue: Assessment and interventions](#). Invited paper presented at the 4th Biennial Modern Developments in Audiology Conference, Nashville, TN.

Hornsby, B. (2013, November). [Assessment and Interventions for Hearing Loss-Related Fatigue](#). Invited paper presented at the UCSF Audiology Amplification Update XI, San Francisco, CA.

Hornsby, B. (2014, October). [Too Tired to Listen? Assessing Fatigue Children with Hearing Loss](#). Invited paper presented at the Knowles Hearing Center Research Symposium, Northwestern University, Evanston, IL.

Hornsby, B. (2014, November). Auditory Fatigue in Children with Hearing Loss. Invited paper presented at the Oticon Pediatrics Clinical Update conference, Chicago, IL

Hornsby, B., Naylor, G. and Bess, F.H. (2015, June). A taxonomy of fatigue concepts and relations to hearing impairment. Invited paper presented at the Fifth Eriksholm Workshop on “Hearing impairment and Cognitive Energy”, Snekkersten, Denmark.