

Gabrielle Helena Saunders

Gabrielle Helena Saunders
National Center for Rehabilitative Auditory Research
3710 SW US Veterans Hospital Road, Portland OR 97207
gabrielle.saunders@med.va.gov

EDUCATION

- 1981-1985** University of London, Chelsea College, England
BSc. (Hons.) Human Biology with Psychology
- 1985-1989** MRC Institute of Hearing Research, University of Nottingham, England
Ph.D. Audiology/Psychology

EMPLOYMENT

- 2006-current: Deputy Director for Education, Dissemination & Outreach, NCRAR, Portland OR.** Responsibilities include overseeing content NCRAR website and website committee, publication of educational brochures for professionals and consumers, public relations for NCRAR, oversight of NCRAR biennial conferences, organization of NCRAR Externship program, Editor for of NCRAR newsletter and all other public relations and educational programs.
- 2003-current: Assistant Professor, Department of Otolaryngology, Oregon Health Sciences University, Portland, OR.**
- 2001-current: Research Investigator, National Center for Rehabilitative Auditory Research, Portland OR.** Duties include design of research studies in aural rehabilitation and hearing aid evaluation, with emphasis on outcome measurement and localization abilities. Additional responsibilities involve preparation and submission of merit-reviewed grant proposals, supervision of research audiologists, data analysis, preparation of manuscripts for publication, scientific presentations at local, national and international conferences and mentoring of post-doctoral staff.
- 1998-2000** **Manager of Clinical Research, Decibel Instruments Inc. Fremont, CA.** Duties included the design and organization of clinical trials of hearing aids and software, statistical analysis of data (SPSS). In-house research included studies comparing audiometric measurement in dB HL versus dB SPL and its implications for audiometry and hearing aid fittings.
- 1996-1998** **Research Scientist & Statistician, Scientific Learning, Berkeley, CA.** Carried out statistical analyses for a large-scale Beta trial of a computer-based training therapy (FastForWord I) for children with specific language impairment and language-based disabilities. Jointly developed an extensive battery of psychoacoustic measures for assessment of dyslexic children and adults, with the aim of understanding the underlying auditory processing deficits in dyslexia. Designed and carried out clinical trials of FastForWord I for special populations.

Gabrielle Helena Saunders

- 1995-1996** **Research Associate, Graduate Center of City University of New York, NY.** Evaluated multi-microphone arrays for potential use in hearing aids with measures of speech discrimination, paired-comparisons and sound quality ratings.
- 1993-1995** **Co-Principal Investigator, VA RR&D Grant, East Orange VA Medical Center, NJ.** Designed and directed a large field trial comparing the features of programmable and non-programmable hearing aids. Developed a questionnaire for comparing attitudes towards hearing loss and hearing aids. Measured individual differences in psychoacoustic and psychosocial profiles in order to understand and predict hearing aid benefit and satisfaction.
- 1991-1993** **Research Associate, Rehabilitation Engineering Research Center, Lexington Center, NY.** Studied the relationship between performance, hearing aid satisfaction and the articulation index.
- 1990-1991** **Post-doctoral visiting scholar, Graduate Center of City University of New York, NY.** Developed and evaluated True-False test procedures and response time measures for testing speech discrimination.

PROFESSIONAL POSITIONS

- 2009-current: Associate Editor, American Journal of Audiology.**
- 2007-2008: President, Academy of Rehabilitative Audiology**
- 2006 -current: Editor, Quarterly Newsletter of the National Center for Rehabilitative Auditory Research**
- 2005-current: Assistant Editor, Journal of the American Academy of Audiology**

OTHER PROFESSIONAL ACTIVITIES

- 2011: Conference Chair,** National Center of Rehabilitative Auditory Research-sponsored conference titled '*Expanding our Horizons: Medical Conditions and Audiology*', Portland Oregon, October 12-14 2011
- 2010: Member,** Research and Clinical Posters Committee, AAA Meeting 2011
- 2010: Chair,** Program Committee, ARA Institute September 12-14 2010
- 2010 & 2012: Member,** Steering Committee IHCON 2010 and 2012
- 2009: Conference Chair,** National Center of Rehabilitative Auditory Research-sponsored conference titled '*The Ear-Brain System: Approaches to the Study and Treatment of Hearing Loss*', Portland Oregon, October 7-9 2009
- 2008: Conference Chair,** ARA Institute September 10-12 2008
- 2008-2014: Alternate member,** R&D Committee, Portland VA Medical Center

Gabrielle Helena Saunders

2007: Conference Chair, National Center of Rehabilitative Auditory Research-sponsored conference titled '*Hearing Therapies for the Future*', Portland Oregon, September 27-29 2007

2005-2007: Member R&D Committee, Portland VA Medical Center

2005: Conference Chair, National Center of Rehabilitative Auditory Research-sponsored conference titled '*The Aging Auditory System: Considerations for Rehabilitation*', Portland Oregon, September 22-23 2005

2004-current: Member Executive Committee, National Center for Rehabilitative Auditory Research, Portland OR

2003: Conference Chair, National Center of Rehabilitative Auditory Research-sponsored conference titled '*Auditory Rehabilitation – A multidisciplinary Approach*', Portland Oregon, October 9-10 2003

2001: Member, Instructional Course Program Committee, AAA Convention 2002.

Grant reviewer for: The Retirement Research Foundation, UK; VA HSR&D; Royal National Institute for the Deaf, UK; VA RR&D, ZonMW 'InZicht fase 2', Netherlands; Medical Research Council Grants, UK, SBIR USAMRMC Military Operational Medicine Research Program.

Ad hoc reviewer for: American Journal of Audiology, American Journal of Industrial Medicine, Assistive Technology, Ear and Hearing, International Journal of Audiology, Journal of the American Academy of Audiology, Journal of the Academy of Rehabilitative Audiology, Journal of Rehabilitation Research and Development, Journal of Speech, Language and Hearing Research, Noise and Health.

Tenure Review for University of Louisville and University of Kentucky.

CURRENT RESEARCH INTERESTS

Psychosocial issues in hearing loss, development and evaluation of outcomes measures for hearing aids, effects of dual sensory impairment upon auditory function, education to prevent noise-induced hearing loss, auditory training, and interventions for auditory disorders associated with mild traumatic brain injury.

AWARDS

RESEARCH SUPPORT

Programmable Hearing Aids: Measurement and Prediction of Benefit, Principal Investigator, Department of Veterans Affairs Rehabilitation Research and Development Service, 1992-1995, \$588,816.

A Test to Measure Performance and Subjective Impressions of Auditory Ability, Principal Investigator, Department of Veterans Affairs Rehabilitation Research and Development Service, 2001-2004, \$423,100.

Gabrielle Helena Saunders

Effect of Individualized Counseling on Hearing Aid Acceptance, Principal Investigator, Department of Veterans Affairs Rehabilitation Research and Development Service, 2002-2005, \$387,500.

A Method for Improving Localization Abilities of Individuals with Visual and Auditory Impairment, Principal Investigator, Department of Veterans Affairs Rehabilitation Research and Development Service, 2002-2005, \$205,900.

Department of Veterans Affairs RR&D Disability Supplement for Mitchel Turbin, Department of Veterans Affairs Rehabilitation Research and Development Service, Principal Investigator, 2002-2005, \$236,100.

Long-term Follow-Up of Patients in the NIDCD/VA Hearing Aid Clinical Trial, Department of Veterans Affairs Cooperative Studies Service, Investigator, 2002-2005, \$586,946.

An Evaluation of the Efficacy of the Beltone AVE as a Pre-Fitting Counseling Tool, Beltone/GN Resound, Principal Investigator, 2004-2005, \$42,150.

The Impact of Hearing Aid Microphone Polar Patterns on Sound Localization, The National Organization for Hearing Research Foundation, Principal Investigator, 2004-2005, \$15,000.

The Impact of Hearing Aid Directional Microphones on Sound Localization, Principal Investigator, Department of Veterans Affairs Rehabilitation Research and Development Service, 2005-2008, \$484,800.

The Performance-Perceptual Test (PPT) as a Counseling Tool, Principal Investigator, Department of Veterans Affairs Rehabilitation Research and Development Service, 2005-2007, \$411,500.

Hearing Therapies for the Future Small Conference Grant, Principal Investigator, National Institutes of Health - National Institute on Deafness and other Communication Disorders, 2007-2008, \$20,800.

Supplementing Hearing Aids with Computerized Auditory Training, Department of Veterans Affairs Rehabilitation Research and Development Service, Investigator, 2008-2011, \$960,500.

The Ear-Brain System: Approaches to the Study and Treatment of Hearing Loss, Principal Investigator, National Institutes of Health - National Institute on Deafness and other Communication Disorders, 2009-2010, \$29,925.

Evaluation of Approaches to Auditory Rehabilitation for Mild TBI, Principal Investigator, Department of Veterans Affairs Rehabilitation Research and Development Service, 2009-2012, \$707,500.

A Hearing Loss Prevention Program for Veterans, Principal Investigator, Department of Veterans Affairs Rehabilitation Research and Development Service, 2010-2013, \$595,400.

PUBLICATIONS

Peer-reviewed

McMillan GP, **Saunders GH**, Hanson TE. A statistical model of horizontal auditory localization performance data. Journal of the Acoustical Society of America Express Letters, In Press.

Gabrielle Helena Saunders

Gladd D, **Saunders GH**. Ambient Noise Levels in the Chemotherapy Clinic. Submitted to Noise and Health.

Saunders GH, Echt KV. Blast Exposure and Dual Sensory Impairment. Invited article for Journal of Rehabilitation Research and Development Special Issue: Sensory and Communicative Disorders in Blast-Related Injuries, In Press.

Silverman S, Cates M, **Saunders GH**. Is measured hearing aid benefit impacted by seeing baseline outcome questionnaire responses? American Journal of Audiology, In Press.

Gallun FJ, **Saunders GH**. (2010) The ear-brain system: Approaches to the study and treatment of hearing loss. Journal of the American Academy of Audiology 21(9), doi: 10.3766/jaaa.21.9.1

Lawson N, Thompson K, **Saunders GH** et al. Sound Intensity and Noise Evaluation in a Critical Care Unit. (2010), American Journal of Critical Care 19: 88-98 doi: 10.4037/ajcc2010180.

Saunders GH, Lewis MS, Forsline A. (2009) Expectations, pre-fitting counseling and hearing aid outcome. Journal of the American Academy of Audiology 20(5), 320-334.

Saunders GH, Griest S. (2009) Hearing loss in veterans and the need for hearing loss prevention programs. Noise and Health 11 (42), 14-21.

Saunders GH, Griest S. (2007) A Multimedia Hearing Loss Prevention Program for older adults: Theoretical Basis and Development. Journal of the Academy of Rehabilitative Audiology 40, 47-61.

Saunders GH, Echt KV. (2007) An Overview of Dual Sensory Impairment in Older Adults: Perspectives for Rehabilitation. Trends in Amplification 11(4), 243-258.

Saunders GH, Forsline A, Jacobs P. (2007) Attitudes toward Loss of Hearing Questionnaire (ALHQ): A comparison of electronic and paper formats. Journal of the American Academy of Audiology 18(1), 66-77.

Saunders GH, Forsline A. (2006) The Performance-Perceptual Test (PPT) and its relationship to aided reported handicap and hearing aid satisfaction. Ear and Hearing 27(3) 229-242.

Saunders GH, Chisolm T, Abrams HB. (2005) Measuring Hearing Aid Outcomes – not as easy as it seems. Invited paper for special issue of Journal of Rehabilitation Research and Development 42(suppl. 2), 157-168.

Saunders GH, Cienkowski KM, Forsline A, Fausti SA. (2005) Normative data for the Attitudes towards Loss of Hearing Questionnaire. Journal of the American Academy of Audiology 16, 637-652.

Saunders GH, Forsline A, Fausti SA. (2004) The Performance-Perceptual Test (PPT) and its relationship to unaided reported handicap. Ear and Hearing 25, 117-126.

Saunders GH, Jutai JW. (2004) Hearing specific and generic measures of the psychosocial impact of hearing aids. Journal of the American Academy of Audiology 15, 238-248.

Saunders GH, Morgan DE. (2003) Impact of measuring threshold in dB HL versus dB SPL on hearing aid targets. International Journal of Audiology 6, 319-326.

Saunders GH, Cienkowski KM. (2002) A test to measure subjective and objective speech intelligibility. Journal of the American Academy of Audiology 13, 38-49.

Gabrielle Helena Saunders

Dronkers NF, Husted DA, Deutsch G, Taylor MK, **Saunders GH**, Merzenich MM. (1999). Lesion site as a predictor of improvement after “Fast ForWord” treatment in adult aphasic patients. *Brain & Language* 69, 450-452.

Saunders GH, Cienkowski KM. (1997) Acclimatization to hearing aids. *Ear & Hearing* 18, 129-139.

Saunders, GH, Kates J. (1997) Speech intelligibility enhancement using hearing aid array processing. *Journal of the Acoustic Society of America* 102, 1827-1837.

Saunders GH, Cienkowski KM. (1996) Refinement and psychometric evaluation of the Attitudes to Loss of hearing Questionnaire (ALHQ). *Ear and Hearing* 17, 505-519

Saunders GH, Cienkowski KM, Levitt H. (1994) The relationship between aided and unaided articulation indices, performance and subjective satisfaction with programmable hearing aids. *Journal of the Acoustical Society of America* 97, 3345 (A).

Saunders GH, Haggard MP. (1993) The influence of personality-related factors upon consultation for two different marginal organic pathologies with and without reports of auditory symptomatology. *Ear and Hearing* 14, 242-248.

Saunders GH, Haggard MP. (1992) The assessment of ‘Obscure Auditory Dysfunction’ (OAD) – 2: Case-control analysis of determining factors. *Ear and Hearing* 13, 241-254.

Saunders GH, Field DL, Haggard MP. (1992) A clinical test battery for ‘Obscure Auditory Dysfunction’ (OAD): development, selection and use of tests. *British Journal of Audiology* 26, 33-42.

Lutman ME, **Saunders GH**. (1992) Lack of association between otoacoustic emissions and hearing difficulty in subjects with normal hearing thresholds. *Journal of the Acoustical Society of America* 92, 1184-1185.

Saunders GH, Haggard MP. (1989) The assessment of ‘Obscure Auditory Dysfunction’ (OAD) – 1: Auditory and psychological factors. *Ear and Hearing* 10, 200-208.

Non-peer-reviewed

Saunders GH, Echt KV (2011) Dual Sensory Impairment (DSI) in an aging population. *The ASHA Leader* 16(3) 5, 7

Saunders GH, Folmer RL, Griest SE, Dann SM. (2010) Development of a computer-based, multi-media Hearing Loss Prevention Program. Invited article. *Noise and Vibration World Wide*, 41(4) 8-12.

Folmer RL, **Saunders GH**, Dann SM, Griest SE, Leek MR, Fausti SA. (2010) Development of a Computer-based, Multi-media Hearing Loss Prevention Education Program for Veterans and Military Personnel. *ASHA Perspectives*, 6(1), 9-19

Saunders GH. (2009) Understanding in noise: Perception vs. Performance. Page 10 Article. *The Hearing Journal* 62(5), 10-14

Saunders GH (2006) Considerations for selecting and fitting hearing aids for older adults in *Perspectives on Hearing and Hearing Disorders: Research and Diagnostics*. American Speech-Language-Hearing Association Division 6 10(2) 19-24

Gabrielle Helena Saunders

Saunders GH, Forsline A. (2006) The Performance-Perceptual Test (PPT) and its application to hearing aid counseling. *The Hearing Review* 13(13), 18-25

Cienkowski KM, **Saunders GH** (2000) Client-attitude questionnaire provides data that can help shape counseling strategies. *The Hearing Journal* 53, 42-49.

Book Chapters

Flores M, **Saunders GH**, Pickett BP. (2011) Aging and the Auditory System. In ML Albert and JE Knoefel (Eds.). *The Clinical Neurology of Aging*, Oxford University Press: Oxford Pp.363-372

Konrad Martin D, **Saunders GH**. (2010) Chapter 16: Auditory and Non-Auditory Barriers to Communication in Older Adults. In RH Hull (Ed.). *Introduction to Aural Rehabilitation*. Plural Publishing Inc.: San Diego Pp329-346.

Jutai J, **Saunders GH**. (2003) Psychosocial outcomes of hearing aids. In: GM Craddock, LP McCormack, RB Reilly, HTP Knops (Eds.), *Assistive technology – shaping the future*. Amsterdam Pp. 510-514.

Merzenich MM, **Saunders GH**, Jenkins WM, Miller S, Peterson B, Tallal P. (1999) Pervasive developmental disorders: Listening training and language abilities. In S H Broman & JM Fletcher (Eds.) *The changing nervous system: Neurobehavioral consequences of early brain disorders* (pp. 365-385). New York: Oxford University Press.

Merzenich MM, Miller S, Jenkins WM, **Saunders GH**, Protopapas A, Peterson B, Tallal P. (1998) Amelioration of the acoustic and speech reception deficits underlying language-based learning impairments. In C. von Euler, I. Lundberg, & R. Llinas (Eds.), *Basic mechanisms in cognition and language* (pp. 143-172). New York: Elsevier.

Saunders GH (1997) Other Evaluative Procedures in H. Tobin: Practical Hearing Aid Selection and Fitting. Rehabilitation Research and Development Service. Monograph 001, 103-119

Electronic Publications

Saunders GH. (2009) Performance Perceptual Test (PPT): Clinical Applications. Featured Article, AudiologyOnline:
http://www.audiologyonline.com/articles/article_detail.asp?article_id=2194

Reviews

Saunders, GH (2009). Book review 'Audiology: Treatment. *International Journal of Audiology* 48: 51

Abstracts

Saunders GH, Sowards JG, Forsline A. (2002) Normative data for the perceptual-performance test of speech in noise. 2002 Proceedings - 3rd National Meeting VA Rehabilitation Research and Development Service 87, 75.

Saunders GH, Protopapas A, Cangiano G, Salz T, Cerles L. (1998) Relation of backward masking and frequency discrimination to reading and language among 5- to 12-year-old children *Journal of the Acoustical Society of America* 104(3): 1800

Gabrielle Helena Saunders

Miller S, Merzenich MM, **Saunders GH**, Jenkins WM, Tallal P. (1997) Improvements in language abilities with training of children with both attentional and language impairments. Society for Neurosciences Abstracts, 23, 490.

Tallal P, **Saunders GH**, Miller S, Jenkins WM, Protopapas A, Merzenich MM. (1997) Rapid training-driven improvement in language ability in autistic and PPD-NOS children. Society for Neurosciences Abstracts, 23, 490.

Saunders GH, Cienkowski KM. (1997) The relationship between aided articulation indices, performance, and subjective satisfaction with programmable and conventional hearing aids. Journal of the Acoustical Society of America 97(5): 3345

Matthes RM, **Saunders GH**, Cienkowski KM, Levitt H. (1995) Programmable hearing aids: Evaluation and prediction of Benefit. Rehabilitation Research and Development Progress Reports 33, 226.

Saunders GH. (1992) A fully automated response time test of speech recognition. Journal of the Acoustical Society of America 92(4): 2385

Saunders GH, Haggard MP. (1988) A clinical assessment of 'Obscure Auditory Dysfunction' British Journal of Audiology 22(3) 224

Saunders GH, Haggard MP. (1988) Obscure auditory dysfunction in people with clinically "normal" hearing. Clinical Otolaryngology

Haggard MP, **Saunders GH**, Gatehouse S. (1987) Correlations among auditory functions in the 'normal' range. Journal of the Acoustical Society of America 82(S1):S4

Editorials

Saunders GH. (2008) Prevention: The Best Form of Rehabilitation? Invited 'Point of View' editorial. Advance for Audiologists 10(3) 18

Saunders GH, Fausti SA. (2005) Advanced Hearing Aid Features: Directional Microphones and Telecoils. Proceedings from the National Center for Rehabilitative Auditory Research (NCRAR) conference: Auditory rehabilitation: A multidisciplinary Approach. Guest Editors Saunders & Fausti. Seminars in Hearing 26(2).

Saunders GH, Fausti SA. (2005) Plasticity, Outcome Measures, and Evidence-based Practice. Proceedings from the National Center for Rehabilitative Auditory Research (NCRAR) conference: Auditory rehabilitation: A multidisciplinary Approach. Guest Editors Saunders & Fausti. Seminars in Hearing 26(3).

Other (lay articles):

Saunders GH. (2009) You and Your Audiologist: Maximizing the Use of hearing Aids. Invited article. DIALOGUE Magazine, July-August edition, 50-55

Saunders GH. (2008) Combined hearing loss and vision loss: current research and future rehabilitation. Invited short story for Deaf-Blind American Magazine 47 (2) 6-10

Caldwell M, **Saunders GH**, Lawson N, Thompson K, Brown D, Richardson J, Pope D, Gates N, Saiz J. (2008) Signal Intensity and Noise Evaluation (S.I.N.E) in a Critical Care Unit. Article in the NCRAR Quarterly Newsletter 8 (4), 1, 3

Gabrielle Helena Saunders

Gabrielle Saunders (2007) Dual Sensory Impairment - A Review. Article in the NCRAR Quarterly Newsletter 8(1) 1, 8.

INVITED PRESENTATIONS

Invited International and National

Saunders GH. (2011) Auditory rehabilitation and The Health Belief Model (2011). Invited presentation to be presented at the 6th international Adult aural rehabilitation conference. St. Pete Beach FL May 24-27.

Saunders GH. (2011). Rehabilitation of blast-related TBI. Invited presentation and panel discussion participant at Visual Function and its Management in mTBI, Smith Kettlewell Eye Research Institute, San Francisco CA March 4-5.

Saunders GH. (2011). Blast Exposure, mTBI and Impacts on Hearing. Invited presentation and panel discussion participant at Visual Function and its Management in mTBI, Smith Kettlewell Eye Research Institute, San Francisco CA March 4-5.

Saunders GH, Teahen M. (2011). Auditory Training for Veterans. Invited presentation for the National Center for Rehabilitative Auditory Research Monthly Seminar Series. January 21.

Myers PJ, **Saunders GH,** Abrams, HA, Chisolm T. (2010). Evaluation of Approaches to Auditory Rehabilitation for mild TBI. Invited presentation at Joint DoD/VA Audiology Conference, Orlando, Florida, February 23.

Fausti SA, Gallun F, **Saunders GH** (2009). NCRAR Research: Traumatic Brain Injury and Dual Sensory Impairment. National VHA/DoD Conference: Sensory Impairment Issues in Traumatic Brain Injury. Chicago, IL, December 8-10.

Fausti SA, Folmer R, **Saunders GH.** (2009) A VA perspective on hearing loss prevention. DARPA/MTO workshop: Bionic Ear-Enhancing Plug (BEEP). Arlington, VA, October 30.

Saunders GH. (2009) Auditory Rehabilitation Beyond Hearing Aids. Invited presentation at the UCSF Audiology-Amplification Update IX. San Francisco, CA, October 16-17.

Saunders GH. (2007) Research Overview. Invited presentation to students and faculty at San Diego State University. San Diego, CA, May 7.

Saunders GH. (2006) Impact of Dual-Sensory Loss on Technology Selection and Fitting. Invited presentation at the State of the Science on Hearing Enhancement. Gallaudet University, Washington, DC, September 18-20.

Saunders GH. (2006) Hearing Aids and Hearing Loss. Invited presentation at State of the Science Workshop: Assistive Technology Devices, Walter Reed Army Medical Center Washington DC April 21.

Invited Regional and Local

Saunders GH. (2010). Dual sensory impairment – whose responsibility is it and what do we know? Invited Optometry Grand Rounds Presentation. Portland VA Medical Center, October 12.

Diedesch A, Folmer R, **Saunders GH.** (2010) Auditory Processing: Evaluation and treatment. Latest Advanced in Concussion and Traumatic Brain Issues: A Collaborative Team Approach.

Gabrielle Helena Saunders

Sponsored by Advanced Healthcare Education. Portland, OR, September 24. This talk was also live-streamed and downloadable from: http://www.ahceducation.com/?page_id=4

Folmer RL, **Saunders GH**. (2009) Hearing Loss in Veterans Hearing Loss Prevention. Invited seminar at the Oregon Association of Audiology Winter Workshop, Salem, OR, February 7

Saunders GH. (2007) Auditory Rehabilitation: State of the Art Hearing Aids and Other Factors. Invited Grand Rounds presentation, Department of Otolaryngology Oregon Health and Sciences University, Portland, OR, July 27.

Saunders GH. (2005) Measured and Reported Hearing Difficulties. Invited speakers for Research Day Portland VA Medical Center, Portland, OR, April 7.

Saunders GH. (2002) Hearing Research topics. Department of Speech and Hearing Sciences, Portland State University, Portland OR.

Saunders GH (2001). Hearing aid use: the Individual and the Technology. Hearing Tonight Series, Portland, OR, October 18.

Saunders GH, Morgan DE, Cienkowski KM. (2000) Satisfying the hearing aid user: Accurate audiometric measurement, counseling or both? Invited presentation at National Center for Rehabilitative Auditory Research open house, August 3.

Saunders GH. (1996) Audiology Study Group of New York (1996)

Saunders GH. (1991) New Jersey Speech & Hearing Association

Invited Web-based:

Sweetow RW, Clark JG, Preminger JE, **Saunders GH**, Thibodeau L. (2010) Current Topics in Audiologic Rehabilitation - Panel Discussion. February 12, 1:30 pm EST. Course accessible at http://www.audiologyonline.com/ceus/recordedcoursedetails.asp?class_id=15563

Saunders GH. (2010) Dual Sensory Impairment: Where are we now? Where must we go from here?. Invited Audiology Online e-Seminar. February 11, 12 pm EST. Course accessible at http://www.audiologyonline.com/ceus/recordedcoursedetails.asp?class_id=15564

Saunders GH. (2008) Clinical Applications of the Performance Perceptual Test (PPT). Invited Audiology Online e-Seminar. October 15, 12pm EST and 12pm PST. Course accessible at http://www.audiologyonline.com/ceus/recordedcoursedetails.asp?class_id=12287

Abrams HB, Chisolm T, **Saunders GH**. (2005) Measuring Hearing Aid Outcomes – not as easy as it seems Part 4: Some complicating issues or ‘Why is Life never Simple?’ VA Employee Education System satellite broadcast St. Louis, MO, September 8.

All other conference presentations:

Dams-O’Connor K, **Saunders GH**, Mahncke H (2011) Plasticity-Based Computerized Training: A Novel Approach To Cognitive Rehabilitation For Traumatic Brain Injury. Symposium to be presented at the Federal interagency Conference on Traumatic Brain Injury. Washington DC, June

Gabrielle Helena Saunders

- Saunders GH**, McArdle R, Chisolm TH, Smith S, Wilson R. (2011) Auditory training and hearing aid outcome. Paper to be presented at the 6th international Adult aural rehabilitation conference. St. Pete Beach FL May
- Arnold M, **Saunders GH**, Myers PJ, Chisolm TH, Teahen M. (2011) Evaluation of approaches to auditory rehabilitation for mild Traumatic Brain Injury (mTBI) Paper to be presented at the 6th international Adult aural rehabilitation conference. St. Pete Beach FL May
- Myers PJ, **Saunders GH**, Chisolm T, Arnold, M. (2011). Evaluation of Approaches to Auditory Rehabilitation for Mild TBI. Poster presented at VA Research Day, Tampa, FL, April 2011
- Saunders GH**, Dann S, Vachhani J, Folmer RL, Griest S. (2011). A Multimedia Hearing Loss Prevention Program. Learning module presented at AudiologyNow, Chicago IL, April 2011
- Saunders GH (Moderator)**, Cienkowski KM, Montano J, Preminger J, Sweetow R. Grand Rounds in Audiologic Rehabilitation: Featured Session presented at AudiologyNow, Chicago IL, April 2011
- Havard J, Teahen M, **Saunders GH**. (2011). The QuickSIN and the HINT as Stimuli for the PPT. Poster presented at the American Auditory Society Annual Meeting, Scottsdale, Arizona, March 2011.
- Dann S, **Saunders GH**, Griest S, Galvez G, Shannon J. (2011). Development of the Hearing Conservation Knowledge, Attitudes, and Behaviors (KAB) Questionnaire. Poster to be presented at the National Hearing Conservation Association Meeting, February 2011.
- Myers PJ, **Saunders GH**, Chisolm T, Arnold, M. (2010) Evaluation of Approaches to Auditory Rehabilitation for Mild TBI. Poster presented at the Sixth Annual VA Blast Injury Conference, Tampa, Florida, December 17.
- Saunders GH**, Dann S, Griest S. (2010) Development a questionnaire to assess Knowledge, Attitudes and Behaviors toward hearing loss prevention. Poster presented at the Institute of the Academy of Rehabilitative Audiology, San Francisco CA, September 13-14.
- Teahen M, **Saunders GH**, Chisolm TH, Smith S, McArdle R, Wilson R, Silverman S, Boyle C, Hatcher M, Vachhani JJ. (2010). Training Habits and Outcomes from a Computerized Auditory Training Program. Poster presented at the Institute of the Academy of Rehabilitative Audiology, San Francisco CA, September 12-14.
- Saunders GH**, Chisolm TH, McArdle R, Smith S, Wilson R. (2010) Evaluation of Auditory training with Veterans: Preliminary Results. Paper presented at the International Hearing Aid Conference (IHCON). Lake Tahoe CA, August 11-15.
- Chisolm TH, McArdle R, **Saunders GH**, Smith S, Wilson R. (2010) Efficacy of Auditory Training for Adults: Preliminary Results. Paper presented at the International Conference on Adult Hearing Screening AHS 2010. Cernobbio (Como Lake), Italy, June 10-12.
- Saunders GH**, Fausti SA, Helt P, Leek MR. (2010) National Center for Rehabilitative Auditory Research: A National Resource. Poster presented at the Annual VA Rehabilitation Research and Development Centers of Excellence Directors' and Administrative Officers' Meeting Pittsburgh, PA, May 25-26.
- Gallun FJ, Leek, MR, Diedesch AC, Henry JA, **Saunders GH**, Fausti SA, Folmer RL. (2010) Understanding and addressing the effects of blast exposure on the auditory system. Ongoing studies at the National Center for Rehabilitative Auditory Research. Poster presented at the

Gabrielle Helena Saunders

Annual VA Rehabilitation Research and Development Centers of Excellence Directors' and Administrative Officers' Meeting, Pittsburgh, PA, May 25-26.

Saunders GH, Gladd D, Richardson J, Silen R, Caldwell M. (2010) Noise in a VA Hospital. Poster presented at AudiologyNow, San Diego, CA, April 15-17.

Sweetow R, Thibideau L, Clark JG, **Saunders GH**. (2010) Removing Barriers from Comprehensive Audiologic Rehabilitation. Special Session at AudiologyNow, San Diego, CA, April 15-17.

Gladd D, **Saunders GH**, Pulliam P. (2010) Ambient Noise Levels in the Chemotherapy Clinic. Student poster presented at the American Auditory Society, Scottsdale, AZ, March 4-6.

Folmer RL, **Saunders GH**, Dann S, Leek MR, Fausti SA. (2010) Development of a computer-based HLP education program for veterans & military personnel. Paper presented at the NHCA 35th Annual Hearing Conservation Conference, Orlando, FL, February 25-27.

Saunders GH, Fausti SA, Folmer RL, Gallun FJ, Henry JA, Myers PJ, Leek MR, Wilmington DJ. (2010) Ongoing Research at the National Center for Rehabilitative Auditory Research: VA-DoD Collaborations and Other Studies. Poster presented at the Joint Defense/Veterans Audiology Conference, Orlando, FL, February 22-24.

Folmer RL, **Saunders GH**, Dann SM, Griest SE, Leek MR, Fausti SA. (2010) Development of a Computer-based Hearing Loss Prevention Education Program for Veterans and Military Personnel. Joint Defense Veteran Audiology Conference, Orlando, FL, February 23.

Gladd D, **Saunders GH**, Pulliam P. (2009) Ambient Noise Levels in the Chemotherapy Clinic. Poster presented at the National Center for Rehabilitative Auditory Research biennial conference The Ear Brain-System: Approaches to the Study and Treatment of Hearing Loss. Portland, OR, October 8-9.

Saunders GH. (2009) Evaluation of Approaches to Auditory Rehabilitation of mTBI. Presentation at the NCRAR Pre-conference workshop: Current directions and interdisciplinary approaches to mTBI. Portland, OR, October 7.

Saunders GH, Forsline A, Caldwell M. (2009) The impact of counseling based on Performance-Perceptual Test scores on self-reported hearing aid outcome. Poster presented at the 5th International Adult Aural Rehabilitation, Conference, Tampa FL, March 16-19 .

Anders M, **Saunders GH**, Silverman S. (2009) Questionnaire Completion and Hearing Aid Benefit – T35 Trainee Project. Student poster presented at the American Auditory Society, Scottsdale, AZ, March 5-7.

Folmer RL, **Saunders GH**, Griest SE, Dann S, Leek MR & Fausti SA. (2009) Development of a Joint Department of Defense-VA Hearing Loss Prevention Program. Poster presented at the National Hearing Conservation Association Annual Conference, Atlanta, GA, February 12 – 14.

Lawson N, Thompson K, Brown D, Richardson J, Pope D, Gates N, **Saunders GH**, Caldwell M, Saiz J. (2009) Sound Intensity and Noise Evaluation in a Critical Care Unit. Paper presented at the Seattle Nursing Research Consortium, January 27.

Gabrielle Helena Saunders

Saunders GH, Lewis MS, Forsline A. (2008) Expectations, pre-fitting counseling and hearing aid outcome. Poster presented at the Academy of Rehabilitative Audiology Conference, Portland, OR, September 10-13.

Saunders GH. (2008) Performance Perceptual Test (PPT) and the Acceptable Noise Level (ANL): What do they measure? Paper presented at the International Hearing Aid Research Conference (IHCON), Lake Tahoe, CA, August 13-17.

Saunders GH, Lewis MS, Forsline A. (2008) Expectations, pre-fitting counseling and hearing aid outcome. Poster presented at the International Hearing Aid Research Conference (IHCON) , Lake Tahoe, CA, August 13-17.

Kricos PB, **Saunders GH,** Clark J. (2008) Wheel of Communication: Strategies for more effective communication. Presentation at the Hearing Loss Association of America Convention Reno NV, June 12-15.

Saunders GH, Folmer R. (2008) Prevention of hearing Loss: It is NEVER too late. National Center for Rehabilitative Auditory Research Community Seminar, Portland VA Medical Center, Portland, OR, May 15.

Howell J, **Saunders GH.** (2008) Directional Microphones: Are They Functioning Properly When Issued? T35 poster presentation at the American Auditory Society, Scottsdale, AZ, March 6-8.

Saunders, GH, Griest S. (2008) Hearing Loss in Veterans and the Need for Hearing Loss Prevention Programs. Paper presented at the National Hearing Conservation Association Annual Conference, Portland, OR, February 21-23.

Saunders GH, Griest S. (2007) A Multimedia Hearing Loss Prevention Program for Adults. Paper presented at the Institute of the Academy of Rehabilitative Audiology, St. Louis, MO, October 18-20.

Fausti SA, **Saunders GH.** (2007) National Center for Rehabilitative Auditory Research (NCRAR) and VA Audiology: Communication, Collaboration, Mentoring and Education. Paper presented at the 7th Annual Meeting of the Association of VA Audiologists, Denver, CO, April 18.

Forsline A, **Saunders GH.** (2007) The Performance-Perceptual Test (PPT) as a counseling tool – An Update. Poster presented at the American Academy of Audiology convention Denver, CO, April 19-21.

Saunders GH. (2006) Considerations for rehabilitation of individuals with dual sensory impairment. Paper presented at the Academy of Rehabilitative Audiology Institute, Louisville, KY October 19-22.

Saunders GH, Forsline A. (2006) The Performance-Perceptual Test as a Counseling Tool. Poster presented at the International Hearing Aid Research Conference (IHCON), Lake Tahoe, CA, August 16-20.

Forsline A, **Saunders GH.** (2006) Performance-Perceptual Test (PPT) and hearing aid outcome. Paper presented at the American Academy of Audiology convention, Minneapolis, MN, April 5-9.

Gabrielle Helena Saunders

Saunders GH, Forsline A. (2005) The Performance-Perceptual Test (PPT): Its relationship to unaided and aided hearing ability, and its use as a hearing aid counseling tool. Paper presented at the Academy of Rehabilitative Audiology Institute, Salt Lake City, UT, September 30- October 2.

Cienkowski KM, **Saunders GH**. (2005) An Evaluation of Counseling Strategies Implemented by Audiologists. Paper presented at the Academy of Rehabilitative Audiology Institute, Salt Lake City, UT, September 30- October 2.

Lewis MS, **Saunders GH**, Gordon J, Kusumoto A, Jacobs P, Fausti SA. (2005) The impact of hearing aid microphone polar patterns on speech perception in noise. Paper presented at the American Auditory Society Annual Meeting, Phoenix, AZ, March 20-22.

Saunders GH, Lewis MS, Rheinsburg B, Kusumoto A. (2004) Impact of hearing loss, age and signal frequency upon sound localization ability. Paper presented at the International Hearing Aid Research Conference (IHCON), Lake Tahoe, CA, August 25-29.

Saunders GH, Jutai JW. (2004) The relationship between pre-use hearing aid expectations and generic vs. hearing aid-specific measures of outcome. Poster presented at the International Hearing Aid Research Conference (IHCON), Lake Tahoe, CA, August 25-29.

Kusumoto A, Jacobs P, **Saunders GH**, Lewis MS. (2004) Development of a 24-speaker sound localization test system. Poster presented at the International Hearing Aid Research Conference (IHCON), Lake Tahoe, CA, August 25-29.

Forsline A, **Saunders GH**. (2004) The Performance-Perceptual Test as an Indicator of Hearing Aid Satisfaction. Poster presented at the International Hearing Aid Research Conference (IHCON), Lake Tahoe, CA, CA, August 25-29.

Cienkowski KM, **Saunders GH**. (2004) The Relationship between client attitudes to hearing loss, hearing aids and hearing aid outcomes. Paper presented at the Academy of Rehabilitative Audiology Summer Institute, Saratoga Springs, New York.

Saunders GH, Jutai JW. (2003) Psychosocial impact of hearing aids: hearing specific and generic measures. RESNA, Atlanta, GA, June 19-23

Jutai JW, **Saunders GH**. (2003) Psychosocial Outcomes of Hearing Aids. 7th European (AAATE) Conference for the Advancement of Assistive Technology, Dublin, Ireland, August 31-September 3.

Saunders GH, Forsline A, Sowards J. (2002) The Performance-Perceptual Test of comparison of perceived versus measured performance. Poster presented at the International Hearing Aid Research Conference (IHCON), Lake Tahoe, CA, August 21-25.

Saunders GH, Cienkowski KM. (2002) A measure of subjective and objective speech intelligibility. Poster presented at the 14th annual convention of the American Academy of Audiology, Philadelphia PA, April 17-20.

Saunders GH, Forsline A, Sowards J. (2002) Reconciling discrepancies between perceived and measured speech understanding ability. Paper presented at the American Auditory Society, Scottsdale, AZ, March.

Gabrielle Helena Saunders

Saunders GH, Sowards J, Forsline A. (2002) Normative data for the perceptual-performance test of speech in noise. Poster presented at the 3rd Rehabilitation Research and Development Meeting, Arlington VA, February 10-12.

Jutai J, **Saunders GH**. (2001) Psychosocial impact of hearing aids. International Conference on Technology & Aging, Toronto, Canada, September 12-14.

Saunders GH, Cienkowski KM. (2001) Revised Attitudes to Loss of Hearing Questionnaire (R-ALHQ). Podium presentation at the 13th annual convention of the American Academy of Audiology, San Diego CA, April 19-21.

Saunders GH, Morgan DE. (2001) Comparison of fitting targets from dB SPL and dB HL data. Podium presentation at the 13th annual convention of the American Academy of Audiology, San Diego CA, April 19-21.

Morgan DE, **Saunders GH**. (2001) Real-ear-to-coupler difference variation across adult ears. Podium presentation at the 13th annual convention of the American Academy of Audiology, San Diego CA, April 19-21.

Saunders GH, Jutai JW. (2001) Psychosocial impact of hearing aids with a generic scale. Podium presentation at the 13th annual convention of the American Academy of Audiology, San Diego CA, April 19-21.

Cienkowski KM, **Saunders GH**. (2000) Client attitudes to hearing loss and hearing aids. Instructional course at the 12th Annual Convention of the American Academy of Audiology, Chicago, IL, March 16-19.

Saunders GH, Morgan DE. (1999) Prediction vs. measurement of TM SPL. Presentation at Hearing aid amplification for the new millennium, Sydney, Australia, November 15-19.

Miller S, Merzenich MM, **Saunders GH**, Jenkins WM, Tallal P. (1997) Improvements in language abilities with training of children with both attentional and language impairments. Paper presented at the 1997 Annual Meeting of Society for Neuroscience, New Orleans, LA, October 26.

Tallal P, **Saunders GH**, Miller S, Jenkins WM, Protopapas A, Merzenich MM. (1997) Rapid training-driven improvement in language ability in autistic and other PDD children. Paper presented at the 1997 Annual Meeting of Society for Neuroscience, New Orleans, LA, October 26.

Saunders GH, Cienkowski KM. (1996) Patient attitudes and self-evaluations for counseling hearing aid users. Instructional course at the 8th Annual Convention of the American Academy of Audiology, Salt Lake City, UT,

Saunders GH, Cienkowski KM, D'Arco-Duskowitz S. (1995) Attitudinal factors in hearing aid satisfaction. Poster presented at the 1st Biennial Conference: Hearing Aid Research and Development, NIDCD/DVA, Bethesda, Maryland.

Saunders GH, Cienkowski KM, Levitt H. (1995) A field evaluation of programmable hearing aids. Poster presented at the 1st Biennial Conference: Hearing Aid Research and Development, NIDCD/DVA, Bethesda, Maryland.

Gabrielle Helena Saunders

Saunders GH, Cienkowski KM. (1995) The relationship between aided articulation indices, performance, and subjective satisfaction with programmable and conventional hearing aids. Contributed paper at the Acoustical Society of American, Washington D.C.

Saunders GH, Cienkowski KM, Matthes RW, Levitt H. (1994) The relationship between subjective performance and satisfaction, and the articulation index for programmable and conventional hearing aids. Poster presented at the XXII International Congress of Audiology, Halifax, Nova Scotia, Canada, July 3-7.

Saunders GH, Cienkowski KM, Matthes RW. (1994) The relationship between patient attitudes to hearing and hearing handicap. Technical Session presented at ASHA Convention. New Orleans, Louisiana, November 21.

Saunders GH, Levitt H. (1991) An automated True-False Reaction-Time test for evaluating noise reduction systems. Paper presented at the 1991 American Speech and Hearing association Convention, Atlanta, GA, November 23.

Saunders GH, Haggard MP, Field D. (1989) Clinical diagnosis and management of Obscure Auditory Dysfunction (OAD). Presentation at the British Society of Audiology Clinical Short Papers Meeting, London, England, March 17-18.

Saunders GH, Haggard MP. (1988) A clinical assessment of 'Obscure Auditory Dysfunction'. Presentation at the British Society of Audiology Clinical Short Papers Meeting, London, England, March 17-18.

Saunders GH, Haggard MP. (1988) Obscure Auditory Dysfunction: Assessment and Management. Presentation at the 19th International Congress of Audiology, Israel June 5-9

Saunders GH, Haggard MP. (1987) Obscure Auditory Dysfunction in people with clinically 'normal' hearing. Presentation at the Otorhinolaryngological Research Society, Bradford England, April.

PATIENT MATERIALS AND OTHER PUBLICATIONS

Editor and co-author of NCRAR VA-Approved patient education brochures.:

- How Does the Brain Help Us Hear? by Erick Gallun & Gabrielle Saunders
- Hearing Aids: Wireless Compatibility by Keri O'Connell & Gabrielle Saunders
- Tips for Improving Your Listening Experience by Samantha Lewis & Gabrielle Saunders
- Hearing Conservation by Serena Dann & Gabrielle Saunders
- Why Can't I Understand Speech by Nancy Vaughan & Gabrielle Saunders
- Ototoxicity: Medications and hearing Loss by Dawn Konrad-Martin and Gabrielle Saunders
- Hearing Aids: The Basics by Keri O'Connell Bennett & Gabrielle Saunders

HONORS

"The Best of Audiology '07: Audiologic Rehabilitation", The Hearing Journal for **Saunders, GH** & Echt KE (2007) An Overview of Dual Sensory Impairment in Older Adults: Perspectives for Rehabilitation. Trends in Amplification 11(4), 243-258.

Gabrielle Helena Saunders

“The Best of Audiology ‘06: Hearing Aids”, The Hearing Journal For **Saunders, GH**, Forsline A. (2006) The Performance-Perceptual Test (PPT) and its relationship to aided reported handicap and hearing aid satisfaction. *Ear and Hearing* 27(3) 229-242.

“The Best of Audiology ‘03: Hearing Aids”, The Hearing Journal For **Saunders, GH** & Morgan DE (2003) Impact of measuring threshold in dB HL versus dB SPL on hearing aid targets. *International Journal of Audiology* 6, 319-326

MENTORING

Name	Year	Role when mentored	Current position
Kathleen Cienkowski Ph.D.	1992-1995	Research Audiologist	Assistant Professor
Anna Forsline M.S.	2002-2005	Research Audiologist	Clinical Audiologist
Jennifer Sowards Au.D.	2003-2004	Au.D. Extern	Clinical Audiologist
Samantha Lewis Ph.D.	2003-current	Career Development Awardee	Career Development Awardee
Kathleen Dunkley M.S.	2003-2004	Au.D. extern	Ph.D. student
Mitchel Turbin Ph.D.	2003-2004	Disability Supplement awardee	Investigator
ShienPei Silverman	2004-current	Trainee study coordinator	Study coordinator
Marc Caldwell Au.D.	2007-2009	Research Audiologist	Clinical Audiologist
Michele Molis, Ph.D.	2007-current	Career Development Awardee	Career Development Awardee
Justin Howell, Au.D.	Summer 2007	Summer research trainee	Clinical Audiologist
Jeffrey Shannon, Au.D.	2008-current	Au.D. Extern and Research Audiologist	Clinical Audiologist
Melissa Teahen, Au.D.	2008-current	Research Audiologist	Research Audiologist
Megan Anders, Au.D.	Summer 2008	Summer research trainee	Au.D. extern
Dana Gladd, AuD. student	Summer 2009	Summer research trainee	Au.D. extern
Kara Schwartz	2009-2010	Au.D. extern	Clinical Audiologist
Jovina Harvard	Current	Summer research trainee	Au.D. student
Jay Vashhani	Current	Au.D. extern	Au.D. extern
Peter Jacobs	Current	Career Development Awardee	Career Development Awardee

Gabrielle Helena Saunders

GRADUATE AND UNDERGRADUATE TEACHING EXPERIENCE

1996	Adjunct Professor Kean College NJ.	Aural Rehabilitation
1992/1993	Adjunct Professor, Yeshiva University, NY.	Audiology, Hearing Mechanism
1992	Temporary Professor, Post University, Long Island, NY.	Research Methods
1992	Adjunct Professor City College, CUNY, NY.	Research Methods