

**CURRICULUM VITAE  
THOMAS G. DOLAN**

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**Education**

Ph.D.	1983	Hearing Science, The University of Iowa
M.Sc.	1978	Audiology, McGill University
B.A.	1976	Linguistics, First Class Honors, Carleton University

**Employment**

Chair, Portland State University Department of Speech & Hearing Sciences, 2005-2010  
Co-Chair, Portland State University Department of Communication, 2004-2005  
Director, Portland State University Speech & Hearing Sciences, 2002-2004  
Acting Chair, Portland State University Department of Communication, 2001-2002  
Associate Professor, Portland State University, 1991-present  
Visiting Professor, The University of Ottawa, 1993  
Assistant Professor, Portland State University, 1986-91  
Research Associate, Medical University of South Carolina, 1983-86  
Research Assistant, The University of Iowa, 1980-81  
Teaching Assistant, The University of Iowa, 1980  
Audiologist, Saskatchewan Hearing Aid Plan, Regina, 1978-79  
Research Assistant, McGill University, 1977-78

**Areas of Interest**

Audibility of warning sounds, sound in the environment, noise-induced hearing loss, hearing conservation.

**Dissertation**

"Adaptation of the Acoustically Emitted  $2f_1$ - $f_2$  Combination Tone", October, 1983.  
Director: Paul Abbas, Ph.D.

## **Publications**

T.G. Dolan and J. Rainey "Audibility of Train Horns in Motor Vehicles" Human Factors, 47:3, Fall 2005, 613-629.

T.G. Dolan and Dennis O'Loughlin "Amplified earmuffs: Impact on speech intelligibility in industrial noise for listeners with hearing loss", American Journal of Audiology, 14, June, 2005, 80-85.

T.G. Dolan, S.R. Oliver and J.F. Maurer "Stethoscopes: Real-Ear Measurements and Digital Frequency Transposition," The Hearing Journal, January, 2001, 54, 36-44.

T.G. Dolan and B. Wonderlick "Multi-Channel Compression and Speech Intelligibility in Industrial noise," Journal of Speech and Hearing Research, 43, (2000) 1380-1388.

T.G. Dolan and J.F. Maurer "Hearing Aids in Occupational Settings: Safety and Management Issues," Occupational Health & Safety, October, 2000, 104-106.

T.G. Dolan and J.F. Maurer "Noise Exposure Among Hearing Aid Users in Industry," Journal of Speech and Hearing Research 39, (1996) 251-260.

T.G. Dolan, J.F. Maurer and L.G. Dickinson "Evaluation of an earphone-support method for measuring earplug attenuation," American Industrial Hygiene Association Journal, 54, (1993) 45-50.

T.G. Dolan "Use of a high frequency biasing signal in measuring responses of AGC hearing aids," Hearing Instruments, 42, (1991) 28.

T.G. Dolan and S.G. Morris "Administering audiometric speech tests via bone conduction: A comparison of transducers," Ear and Hearing 11, (1990) 446-449.

T.G. Dolan and J.H. Mills "Recoveries of whole-nerve AP thresholds, amplitudes and tuning curves in gerbils following noise exposure," Hearing Research, 37, (1989) 193-202.

T.G. Dolan and A.J. Klein "Effect of signal temporal shaping on frequency specificity of the AP in gerbils," Audiology 26 (1987), 20-30.

T.G. Dolan, J.H. Mills and R.A. Schmiedt "Brainstem, whole-nerve AP and single-fiber suppression in the gerbil: Normative data," Hearing Research, 18 (1985), 203-210.

T.G. Dolan, J.H. Mills and R.A. Schmiedt "A comparison of brainstem, whole-nerve AP and single fiber suppression in the gerbil: Normative data," Hearing Research, 17, (1985), 259-266.

T.G. Dolan and P.J. Abbas "Changes in the  $2f_1$ - $f_2$  acoustic emission and whole-nerve response following sound exposure: long-term effects," Journal of the Acoustical Society of America 77 (1985), 1474-1483.

T.G. Dolan and P.J. Abbas "Short-term effects of sound exposure on the  $2f_1$ - $f_2$  acoustic emission," Journal of the Acoustical Society of America 77 (1985), 1614-1616.

T.G. Dolan and A.M. Small, Jr. "Frequency effects in backward masking," Journal of the Acoustical Society of America 75 (1984), 932-936.

### **Refereed Presentations**

K. Davenport, T.G. Dolan & B. Chance, "Comparing Accessory Mixing Ratio Options for Children Using the Nucleus Freedom with Microlink Freedom," poster presentation at the 10<sup>th</sup> International Conference on Cochlear Implants and Other Implantable Auditory Technologies, San Diego, CA, April, 2008.

T.G. Dolan, "Detection and Recognition of Train Horns I: Acoustic Factors," Presented at the Annual Conference of the American Academy of Audiology, Denver, CO, April, 2007.

T.G. Dolan, "Detection and Recognition of Train Horns II: Psychoacoustic Factors," Presented at the Annual Conference of the American Academy of Audiology, Denver, CO, April, 2007.

T.G. Dolan, "Perception of Train Horns," presented at The Western Regional Grade-Crossing Safety Training Conference, Vancouver, WA, June 6, 2006.

T.G. Dolan and J.E. Rainey, "Audibility of Train Horns in Motor Vehicles," presented at the 7<sup>th</sup> Annual Workshop on Highway-Railway Grade Crossing Research, Montreal, Canada, November 22, 2005.

T.G. Dolan and D. O'Loughlin, "Effect of Amplified Earmuffs on Speech Intelligibility in Industrial Noise," poster presentation, 29<sup>th</sup> Annual National Hearing Conservation Conference, Seattle, WA, February 20, 2004.

T.G. Dolan, "Amplified Earmuffs: A Solution for Workers with Hearing Loss?" mini-seminar, Annual Conference of the Canadian Association of Speech-Language Pathologists and Audiologists, Victoria, British Columbia, April, 2002.

T.G. Dolan "A New Computer-Based System for Auditory Assessment and Hearing Aid Fitting," mini-seminar, Conference of the Oregon Speech-Language Hearing Association, Eugene, Oregon, October, 2001.

T.G. Dolan and B.A. Wonderlick "Amplification in Occupational Settings," mini-seminar, Conference of the Oregon Speech-Language Hearing Association, Eugene, Oregon, October, 2001.

B. A. Wonderlick and T.G. Dolan, "Effect of Compression on Speech Intelligibility in Amplified Occupational Noise," presented at the 1999 convention of the American Speech-Language-Hearing Association, San Francisco, CA.

T.G. Dolan, J.F. Maurer, K. Kvile and J. Cox, "Lend Me Your Ears: an Educational Tool for Hearing Conservation," presented at the October, 1999 annual conference of the Oregon Speech-Language Hearing Association, Portland, Oregon.

T.G. Dolan "Hearing Aids in Industry: Reducing Noise Exposure Through Signal Processing," presented at the May, 1996 annual conference of the Canadian Association of Speech-Language Pathologists and Audiologists, Kelowna, British Columbia.

T.G. Dolan and A.M. Gilbert "Effectiveness of ASP Systems in Limiting Noise Exposure Associated With Hearing Aids" Presented at the annual conference of the Oregon Speech-Language & Hearing Association, October, 1995, Bend, OR.

T.G. Dolan "Reducing Noise Exposure Among Hearing Aid Users in Industry" Presented at the November, 1994 convention of the American Speech-Language-Hearing Association, New Orleans, LA.

T.G. Dolan and J.F. Maurer "Ear Protection, Hearing Loss, Hearing Aids and Noise" Presented at the Oregon Governor's Occupational Safety and Health Conference, March, 1993, Portland, OR.

T.G. Dolan, J.F. Maurer and J. O'Connor "Noise Exposure Associated with Hearing Aid Use in Industry," presented at the November, 1992 Annual Meeting of the American Auditory Society, San Antonio, TX.

J.F. Maurer and T.G. Dolan "The Frequency Transposition Stethoscope: Improving Lub and Dub." 1991 Joint Fall Conference of the Oregon Speech-Language Hearing Association and the Washington Speech and Hearing Association, Portland OR

T.G. Dolan and J.F. Maurer "An Acoustic Evaluation of Conventional Stethoscopes," presented at the April, 1991 Conference of the Canadian Association of Speech-Language Pathologists and Audiologists, Montreal, Canada.

T.G. Dolan "Measurement of Frequency Responses of Compression Hearing Aids," presented at the November, 1990 annual meeting of the American Auditory Society, Seattle, WA

J.F. Maurer, T.G. Dolan, L.G. Dickinson and B. Kabat "Testing Goodness of Fit of Earplugs," presented at the November, 1990 annual meeting of the American Auditory Society, Seattle, WA.

S.R. Oliver, J.F. Maurer and T.G. Dolan "Real-Ear Measurements of Two Amplified and One Acoustic Stethoscope," presented at the November, 1990 convention of the American Speech-Language-Hearing Association, Seattle, WA

T.G. Dolan "Response Characteristics of Compression Hearing Aids," presented at the 1990 Fall Conference of the Oregon Speech-Language and Hearing Association, Eugene, OR

P. Richie and T.G. Dolan "Effect of Presentation Level on the Intelligibility of Bone-Conducted Speech," presented at the 1990 Fall Conference of the Oregon Speech-Language and Hearing Association, Eugene, OR

T.G. Dolan and K.J. Merry "Use of Auditory Brainstem Responses in Prescribing Maximum Outputs of Hearing Aids," presented at the 1989 Fall Conference of the Oregon Speech and Hearing Association, Bend, OR

T.G. Dolan "Speech via Bone Conduction: A Comparison of Transducers," presented at the May, 1989 Conference of the Canadian Association of Speech-Language Pathologists and Audiologists, Toronto

S.R. Oliver, J.F. Maurer and T.G. Dolan "In Situ Measurements of Stethoscopes," presented at the Fall, 1989 Conference of the Oregon Speech and Hearing Association, Bend, OR

T.G. Dolan "Effects of Transducer Frequency Response on Intelligibility of Speech," presented at the 1988 Fall Conference of the Oregon Speech and Hearing Association, Newport, OR

T.G. Dolan "Outputs of Compression Hearing Aids with Rapid-Onset Input Signals," presented at the 1988 Fall Conference of the Oregon Speech and Hearing Association, Newport, OR

R. Holman, T.G. Dolan and D.J. Lilly "Multiple Frequency Tympanometry: Swept Canal Pressure versus Swept Probe Frequency," presented at the 1988 convention of the American Speech-Language-Hearing Association, Boston, MA

T.G. Dolan and J.H. Mills "Recoveries of AP Thresholds, Amplitudes and Tuning Curves in Gerbils Following 14 Days of Exposure to Wide Band Noise," presented at the Midwinter Meeting of the Association for Research in Otolaryngology, Clearwater Beach, FL, February, 1986

T.G. Dolan, J.H. Mills and R.A. Schmiedt "A Comparison of Brainstem, Whole-Nerve AP and Single-Fiber Tuning Curves and Suppression in the Gerbil: Normative Data," presented at the Midwinter Meeting of the Association for Research in Otolaryngology, Clearwater Beach, FL, February, 1985

T.G. Dolan and P.J. Abbas "Adaptation of the Acoustically Emitted  $2f_1$ - $f_2$  Combination Tone," presented at the 107th meeting of the Acoustical Society of America, Norfolk, VA, May, 1984

T.G. Dolan and A.M. Small, Jr. "Frequency Effects in Backward Masking," presented at the 103rd meeting of the Acoustical Society of America, Chicago, IL, April, 1982

## **TEACHING**

### **Courses Taught at Portland State University**

SpHr 487 Basic Audiology

SpHr 488 Advanced Audiology

SpHr 509 Calibration and Instrumentation in Audiology

SpHr 555 Hearing Aids I

SpHr 557 Hearing Aids Laboratory

SpHr 560 Research Methods in Audiology and Speech Pathology

SpHr 569 Advanced Audiology Practicum

SpHr 562 Instrumentation In Speech and Hearing Sciences  
 SpHr 570 Electrophysiological Evaluations  
 SpHr 571 Anatomy and Physiology of Hearing  
 SpHr 571 Advanced Hearing Science I  
 SpHr 572 Advanced Hearing Science II  
 SpHr 572 Psychoacoustics  
 SpHr 573 Industrial Audiology  
 SpHr 574 Immittance Audiometry  
 SpHr 575 Pediatric Audiology

### **Pedagogical Development**

***Educational production:*** “Lend Me Your Ears”, an audio recording and aimed at alerting industrial workers to the harmful effects of noise exposure. The project was funded by a grant from the Oregon Occupational Safety & Health Administration.

### **Service to Community**

**1. Director, Occupational Hearing Conservation Course, 1994 - present :** The 2 ½ day course prepares safety personnel, occupational nurses and others for national certification as Occupational Hearing Conservationists. It is approved by the Council for Accreditation in Occupational Hearing Conservation (CAOHC). I direct these courses three times per year at Portland State University. My duties include: course management, practicum supervision and lectures on audiometry, noise measurement, auditory perception and the physics of sound. I have also directed CAOHC courses in Bismarck, North Dakota, and Anchorage, Alaska.

**2. Development of the PSU Hearing Aid Bank, 1994-1997.** This project provided more than 350 needy adults and children in Oregon with re-conditioned hearing aids. The expansion of the PSU Hearing Aid Bank was made possible through grants received from service clubs in Oregon.

### **CERTIFICATIONS AND LICENSES**

1. American Speech-Language-Hearing Association (CCC-A)
2. Canadian Association of Speech-Language Pathologists and Audiologists (Certified, Audiology)
3. Registered Audiologist, British Columbia Association of Speech-Language Pathologists and Audiologists
4. Registered Audiologist, College of Speech and Hearing Health Professionals of BC
5. Licensed Audiologist, State of Oregon
5. Certified Course Director, Council for Accreditation in Occupational Hearing Conservation