

VITA

KENNETH J. GERHARDT, Ph.D.

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PERSONAL DATA

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Title: Associate Dean, Graduate School and Professor

EDUCATION

Ohio State University, Columbus	Speech and Hearing Sciences	B.A. 1970
Ohio State University, Columbus	Audiology	M.A. 1973
Ohio State University, Columbus	Hearing Science	Ph.D. 1976

ACADEMIC EXPERIENCE

1972-1973	Supervisor, Fairfield County Speech and Hearing Clinic, Ohio
1973-1974	Coordinator of Clinical Experiences in Audiology, Ohio State University
1973-1975	Graduate Teaching Associate, Ohio State University
1975-1976	Audiologist, Children's Hospital, Columbus, Ohio
1976-1978	Assistant Professor, Kent State University (Tenure-accruing)
1978-1981	Assistant Professor, Department of Speech, University of Florida
1979-present	Joint Appointment, Department of Communicative Disorders, College of Health Professions, University of Florida
1979-present	Fellow, Institute for Advanced Study of the Communication Processes
1981-1990	Associate Professor, Department of Communication Sciences and Disorders, (formerly Department of Speech), University of Florida
1985-1993	Chair, Department of Communication Sciences and Disorders, University of Florida
1985-1987	Graduate Coordinator
1990-present	Professor, Department of Communication Sciences and Disorders, University of Florida
1994-present	Joint Appointment, Department of Obstetrics and Gynecology, College of Medicine, University of Florida
1999-2004	Associate Dean of the Graduate School Ombudsman for graduate and professional students

2004-2007 Interim Dean of the Graduate School
2007-2009 Associate Dean of the Graduate School
2009-present Senior Associate Dean of the Graduate School

CERTIFICATION AND LICENSURE

1976-present Certificate of Clinical Competency in Audiology, issued by the American Speech-Language-Hearing Association
1980-present Licensure, State of Florida

HONORS

Recipient - First Place in the ICSABER Society Graduate Research Competition and Symposium, The Ohio State University, 1976
TIP Recipient - Teaching Improvement Program, 1995
Fellow - American Speech-Language-Hearing Association, 1995
Outstanding Clinician of the Year Award - Florida Speech-Language and Hearing Association, 1996
Fellow - American Academy of Audiology, 1996
Herb and Catherine Yardley Term Professorship in the College of Liberal Arts and Sciences, University of Florida, 1996
PEP Recipient – Professorial Excellence Program, 1998
Award for Innovative Excellence in Teaching, Learning and Technology, Eleventh International Conference on College Teaching and Learning, 2000
Distinguished Professor - 2005-2006, selected by the Florida Blue Key

APPOINTMENTS

1987-1990 Member - Comprehensive System for Personnel Development Oversight Committee. Appointed by the Commissioner of Education
1988 Reaffirmation Committee Member - Southern Association of Colleges and Schools
1990 Site Visitor - American Speech-Language-Hearing Association, ESB Accreditation
1990 Site Visitor - National Institutes of Health, NICHD, Program Project Review
1990 Participant – National Institutes of Health, Consensus Development Conference on Noise and Hearing Loss
1991 Scientific Review Committee, National Institutes of Health, NICHD
1998 Participant – National Consensus Committee to develop standards for hazardous agents (noise) in the neonatal intensive care unit

MEMBERSHIPS

American Academy of Audiology
American Speech-Language and Hearing Association
Council of Graduate Schools
Conference of Southern Graduate Schools

PROFESSIONAL ACTIVITIES

1980-1981 Member - FLASHA, State Committee - Program Selection Committee
1980-1981 Member - ASHA, National Committee - Audiological Services in the Public Schools
1980-1983 Chair - FLASHA, State Committee - Governmental Education Committee, Region IV
1982-1983 First Alternate - ASHA, Legislative Councilor
1982-1983 Member - FLASHA, Audiology Program Committee
1982-1983 Associate Editor, FLASHA Journal
1984-1987 Audiology Standards Committee, FLASHA
1986-1988 Member - ASHA, National Committee - Industrial Noise and Hearing Conservation
1987-1990 Vice President - Florida Speech-Language-Hearing Association.
1989-1990 Chair - Ad hoc Committee to re-write Florida law governing Speech-Language Pathology and Audiology
1989-1991 Member - Graduate Council in Communication Sciences and Disorders
1990-1992 FLASHA Presidential Advisory Committee
1990-present Reviewer- American Journal of Obstetrics and Gynecology
1991-present Reviewer- Journal of the Acoustical Society of America
1992 FLASHA Nominating Committee
1994 FLASHA Legislative Lobbying Committee
1996 Program Scientific Reviewer - American Academy of Audiology
1997-1998 Member - FLASHA Legislative Lobbying Committee
1998 Co-program Organizer, National Organization of Hearing Conservation
1999 Member- National Committee to develop standards for hazardous agents (noise) in the neonatal intensive care unit
2000-present American Academy of Audiology Committee on Minority Recruitment
2002 Participant, National Institutes of Health workshop to discuss the articulation of the Doctor of Audiology and Ph.D. in Audiology
2004-present Participant at AAU Dean's Conferences
2002-2006 Executive Board, Conference of Southern Graduate Schools

CAMPUS ACTIVITIES

1978-1981 Chair, Salary Policy Committee, Department of Speech

1979-1981	Chair - Curriculum Committee - Semester Conversion, Department of Speech
1980	Member - Commencement Marshal, College of Liberal Arts and Sciences
1980-1981	Chair - Search and Screen Committee, Audiology
1980-1983	Member - Curriculum Committee, Department of Speech
1981	Member - IASCP Shop Committee
1981-1982	Member - Self-study Committee, Department of Speech
1981-1982	Chair - Search and Screen Committee, Department of Speech
1981-1985	Area Coordinator - Audiology, Department of Speech
1982-1985	Member - Salary Policy Committee
1983	Acting Chair - Department of Speech
1985-1993	Chair, Department of Communication Sciences and Disorders
1985&1986	RDA Reviewer for Division of Sponsored Research
1989-1990	Member - Search Committee, Department of Psychology
1990-1991	Member - Search Committee, Associate Dean College of Liberal Arts and Sciences
1992-1995	Member - University Senate
1993-1994	Chair - Department Search and Screen Committee
1993-1994	Member - Department TIP Committee
1993-1995	Member - Department Salary Policy Committee
1993-present	Member - University of Florida Institutional Review Board
1993-1995	President's Administrative Council
1995	Member- Search and Screen Committee, Chair of Communicative Disorders, Health Science Center
1995-1996	Acting Program Director- Speech-Language Pathology and Audiology
1995-1996	Chair - Department Scholarship Committee
1995-1997	Member - College Tenure and Promotion Committee, Liberal Arts and Sciences
1997-2000	Member - University of Florida Intercollegiate Athletic Committee
1998-1999	Member- College Search and Screen Committee for Associate Dean
1998-1999	Member- Department Sustained Performance Evaluation Program
1998	Chair- Department TIP Committee
1998-1999	Director of the Intercampus Doctor of Audiology Program
1999	Member, Search and Screen Committee for Audiology Faculty Member
2000- 2004	University Ombudsman for Graduate and Professional students
2000	Member – Search and Screen committee for Associate VP for Research
2000-2001	Member – Task Force on Distance, Continuing and Executive Education
2000-2001	Member – Task Force on University Admissions
2000-2001	Chair – University Graduate and Professional Admissions
2000-2001	Member, Office of Instructional Resources Instructional Technology Advisory Committee
2001-2002	University 150 th Celebration Planning Committee
2002	Member, Presidential Task Force on the Future of the University of Florida. Chair, Subcommittee Two; Ex-Officio to the other subcommittees
2002- 2003	Member, University Service Directory Steering Committee
2001-present	Member, University Curriculum Committee

2001-2004 Member, Advisory Committee for Distance, Continuing and Executive Education
 2001-2004 Member, Operations Advisory Committee for Distance, Continuing and Executive Education
 2003 Member – Provost Task Force on Graduate Tuition and Fees
 2003 Member – Search committee – Chair of Political Science
 2003 Member – Search Committee – Director of Information Technology in RGP
 2003-2005 Member - Search Committee – UF Director of Admissions
 2005-2006 Member - Search Committee - Dean of the College of Design, Construction and Planning
 2008-present Member – Distance Learning Workgroup formed by the Provost
 2009-present Member – Academic Integrity Taskforce appointed by the Provost
 2009-present Member – University Ombuds Search and Screen Committee
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CONSULTING

1982-1983 Winter Garden Products Cooperative, Winter Garden, Florida.
 1982 Custom Cabinets and Millworks, High Springs, Florida.
 1982 Expert testimony. Attorneys R.S. Willis and R.M. Harris, Criminal case, Jacksonville, Florida.
 1983-1986 Editorial Review Team for Random House Publishers.
 1983-1986 General Dynamics Corporation, Worker compensation.
 1988-1991 Program Reviewer - Quality Assurance (JCAH) - Monroe Regional Medical Center, Ocala, FL.

PATENT DEVELOPMENT

Florida Fetal Acoustic Stimulator - \$20,000 received from DSR to develop a prototype

RESEARCH SUPPORT

1978-1979 Development of an Auditory Research Laboratory, from the College of Liberal Arts and Sciences - \$13,100.
 1979-1980 Effects of Noise Exposure on Middle-ear Muscle Activity in Man and Chinchillas, from Division of Sponsored Research, A-1-29 - \$3,300.
 1980 Graduate Research Assistant, from Division of Sponsored Research \$2,500.
 1980-1981 Physiological and Behavioral Correlates of Hearing in the Geriatric Population, 258-B-30 (Co-Principal Investigator with Dr. D.C. Teas), from Division of Sponsored Research - \$2,400.
 1981 Equipment grant from College of Liberal Arts and Sciences. Purchase of two-room IAC Sound Suite - \$4,965.

1980-1982	Biomedical Research Grant (NIH) (F027) (with Dr. D.C. Teas), from Division of Sponsored Research - \$4,722.
1983-1984	Effects of noise exposure on dynamic characteristics of the middle ear muscle reflex in man, from the Surgeon General's Office, U.S. Army - \$2,000.
1983-1984	Agency: Department of Corrections - \$2,300.
1983-1984	Centers for Disease Control, NIOSH 5 R03OHO17 18-02 - \$45,330.
1984	Research equipment grant, College of Liberal Arts and Sciences, Graduate School, IASCP and Department of Speech - \$6,665.
1984-1985	Susceptibility to temporary threshold shifts. Division of Sponsored Research (RDA 1-74, 83-84) - \$13,000.
1984-1985	Acoustic reflex dynamics and temporary threshold shift in octave band exposures (with M.J. Moul) from the Surgeon General's Office, U.S. Army - \$4,000.
1985-1987	Noise in Utero: Characteristics and Effects on Fetal Brain. Investigator with Robert Abrams. March of Dimes - \$36,000.
1988-1989	Graduate Research Assistant. Division of Sponsored Research, University of Florida - \$4,324.
1988	Research Equipment Support. Division of Sponsored Research, UF. With Dr. R. M. Abrams - \$22,000.
1988-1992	Noise in Utero: Characteristics and Effects on Fetal Brain. Co-PI with Dr. R.M. Abrams. NIH - \$741,328.
1989-1990	Human Study of Sound in Utero. D. Richards, PI. March of Dimes- \$40,000.
1989-1990	The perception of speech sounds within the uterus of pregnant sheep. Division of Sponsored Research, UF. With W.S. Brown - \$14,500.
1992-1993	Normal and Abnormal Cochlear Morphology and Auditory Brainstem Response in Fetal Sheep. Division of Sponsored Research, UF- \$20,000.
1992-1993	Noise Exposure in Fetal Sheep. With L.L. Pierson. U.S. Army- \$13,000.
1992-1996	Microhomeostasis of the cochlear duct. Investigator with K.E. Rarey, NIH- \$1,034,922.
1993-1995	Noise-Induced Hearing Loss in Fetal Sheep. PI, March of Dimes- \$57,000.
1993-1996	Sound and Vibration in Pregnancy, Co-PI with R.M. Abrams, NIH- \$506,889.
1995	Graduate Research Assistantship. Division of Sponsored Research, UF- \$6,659.
1996-2000	Sound and Vibration in Pregnancy (Renewal), Co-PI with R.M. Abrams, NIH- \$519,660.
1996-1999	Impulse Noise Exposure: Characterization and Effects on Fetal Sheep in Utero. P.I., U.S. Army Medical Research and Materiel Command- \$264,726.
1998-1999	Cochlear Implants in Deafened Fetal Sheep in Utero. P.I., National Organization for Hearing research- \$10,000.
2000-2001	Gerhardt KJ, Babeu L. Protective effects of antioxidants against noise exposure and ototoxic drugs in the guinea pig. U.S. Army, \$12,548.
2004-2006	Gerhardt KJ. PhD Completion Project with University of Georgia and North Carolina State University. Funded through the Council of Graduate Schools. Contract with UGa, \$74,650.

2009-present Sloan Foundation grant subcontract Professional Science Master's Degree development in the State of Florida

PUBLICATIONS

1. Gerhardt KJ, Melnick W, Ferraro JA. Reflex Threshold Shift in Chinchillas following a Prolonged Exposure to Noise. J Speech Hearing Res 1979;22:63-72.
2. Gerhardt KJ, Melnick W, Ferraro JA. Acoustic Reflex Decay During Long-Term Exposure to Noise. Ear Hearing 1980;1:33-37.
3. Kemker FJ and Gerhardt KJ. Current Acoustic Screening Procedures for the public schools, Division of Public Schools: Bureau of Education for Exceptional Students, Florida Department of Education, 1980:1-55.
4. Ferraro JA, Melnick W, Gerhardt KJ. Effects of Prolonged Noise Exposure on Chinchillas with Severed Middle-Ear Muscles. Am J Otolaryngol 1981;2:13-18.
5. Gerhardt KJ and Handel S. Audiofile. Computer software developed for industrial hearing conservation data storage, 1982.
6. Gerhardt KJ and Teas DC. Hearing Conservation Training Program. An audio/slide program for employee education (20 minutes), 1982.
7. Gerhardt KJ, Hepler EL. Acoustic-reflex activity and behavioral thresholds following exposure to noise. J Acoust Soc Am 1983;74:109-114.
8. Gerhardt KJ, DiMeo PL, Kemker FJ, Kirby CM, Holmes AE. Audiometric Rinne as a public school hearing screening technique. Fl Sp Lang Hear J 1983:26-31.
9. Hepler EL, Moul MJ, Gerhardt KJ. Susceptibility to noise-induced hearing loss. Military Medicine 1984;149:154-158.
10. Moul MJ, Gerhardt KJ, Hepler EL. Further observations on personality pattern and temporary threshold shift. Hearing Instruments 1985;36:12-14.
11. Rodriguez GP, Holmes AE, Gerhardt KJ. Microphone versus telecoil performance characteristics. Hearing Instruments 1985;36:22-24.
12. Gerhardt KJ. Acoustic stapedius reflex and temporary threshold shift. NIOSH Report 1986;123:185-186.
13. Gerhardt KJ, Walton JP. Binaural acoustic reflex activity following monaural noise exposure in decerebrate chinchillas. Audiology 1986;25:309-320.
14. Gerhardt KJ, Hepler EH, Moul MJ. Acoustic Stapedius Reflex and Temporary Threshold Shift. Occupational Safety and Health Program 1986;1:94.
15. Abrams RM, Hutchison AA, Gerhardt KJ, Evans SL, Pendegast J. Local Cerebral Glucose utilization in fetal sheep exposed to noise. Am J Obst Gyn 1987;157:456-460.
16. Lombardino LJ, Stapell JB, Gerhardt KJ. Evaluating communication behaviors. J Pediatric Health Care 1987;1:240-245.
17. Gerhardt KJ, Rodriguez GP, Hepler EL, Moul ML. Ear canal volume and variability in the patterns of temporary threshold shifts. Ear Hearing 1987;8:316-321.
18. Gerhardt KJ, Abrams RM, Kovaz BM, Gomez KJ, Conlon M. Intrauterine noise levels in pregnant ewes produced by sound applied to the abdomen. Am J Obst Gyn 1988;159:228-232.

19. Rodriguez GP, Gerhardt KJ. Adaptation properties of the acoustic reflex in response to continuous-, intermittent- and industrial-noise stimulation. *Audiology* 1988;27:344-355.
20. Rodriguez GP, Walker-Edwards PJ, Gerhardt KJ. Outer ear measures as predictors of ear canal resonant frequency. *Audiol Acoustics* 1989;28:28-35.
21. Rodriguez GP, Gerhardt KJ, Hepler EL. Phenomenologic aspects of the acoustic reflex following noise exposure. *Am J Otology* 1989;10:1-6.
22. Gerhardt KJ. Characteristics of the fetal sheep sound environment. *Sem Perinatol* 1989;13:362-370.
23. Abrams RM, Hutchison AA, Gerhardt KJ. Effect of high intensity sound on local cerebral glucose utilization in fetal sheep. *Dev Br Res* 1989;48:1-10.
24. Gerhardt KJ, Abrams RM, Oliver CC. Sound environment of the fetal sheep. *Am J Obst Gyn* 1990;162:282-287.
25. Gerhardt KJ. Prenatal and perinatal risks of hearing loss. *Sem Perinatol* 1990;14:299-304.
26. Burchfield DJ, Graham EM, Abrams RM, Gerhardt KJ. Cocaine alters behavioral states in fetal sheep. *Dev Br Res* 1990;56:41-45.
27. Rodriguez GP, Gerhardt KJ. Influence of outer ear resonant frequency on patterns of temporary threshold shift. *Ear Hearing* 1991;12:110-114.
28. Abrams RM, Gerhardt KJ, Burchfield DJ. Behavioral state transition and local cerebral blood flow in fetal sheep. *J Dev Physiol* 1991;15:283-288.
29. Graham EM, Peters AJM, Abrams RM, Gerhardt KJ, Burchfield DJ. Intraabdominal sound levels during vibroacoustic stimulation. *Am J Obst Gyn* 1991;164:1140-1144.
30. Richards DS, Abrams RM, Gerhardt KJ, McCann ME. Effects of vibration frequency and tissue thickness on intrauterine sound levels in sheep. *Am J Obst Gyn* 1991;165:438-442.
31. Peters AJM, Abrams RM, Gerhardt KJ, Burchfield DJ. Vibration of the abdomen in non-pregnant sheep: Effect of dynamic force and surface area of vibrator. *J Low Freq Noise Vib* 1991;10(3):92-99.
32. Peters AJM, Abrams RM, Gerhardt KJ, Longmate JE. Three dimensional sound and vibration frequency responses of the sheep abdomen. *J Low Freq Noise Vib* 1991;10(4):100-111.
33. Gerhardt KJ, Otto R, Abrams RM, Colle J, Burchfield DJ, Peters AJM. Cochlear microphonics recorded from fetal and newborn sheep. *Am J Otolaryngol* 1992;13(4):226-233.
34. Peters AJM, Abrams RM, Gerhardt KJ, Burchfield DJ, Wasserman DE. Resonance of the pregnant sheep uterus. *J Low Freq Noise Vib* 1992;11(1):1-6.
35. Abrams RM, Burchfield DJ, Gerhardt KJ, Peters AJM. Effects of cocaine on electrocortical activity in fetal sheep. *Dev Br Res* 1992;70:97-102.
36. Richards DS, Frentzen B, Gerhardt KJ, McCann ME, Abrams RM. Sound levels in the human uterus. *Obst Gynecol* 1992;80(2):186-190.
37. Peters AJM, Abrams RM, Gerhardt KJ, Longmate JE. Three dimensional intraabdominal sound pressures in sheep produced by airborne stimuli. *Am J Obst Gyn* 1993;169:1304-1315.
38. Peters AJM, Abrams RM, Gerhardt KJ. Abdominal vibration alters sleep state in fetal sheep. *J Dev Physiol* 1993;19:227-234.

39. Peters AJM, Abrams RM, Gerhardt KJ, Griffiths SK. Transmission of airborne sound from 50-20,000 Hz into the abdomen of sheep. J Low Freq Noise Vib 1993;12(1):16-24.

40. Abrams RM, Peters AJM, Gerhardt KJ, Burchfield DJ. Vibroacoustic stimulation in fetal sheep: Effect on cerebral glucose utilization and behavioral state. J Dev Physiol 1993;19:171-177.

41. Griffiths SK, Pierson LL, Gerhardt KJ, Abrams RM, Peters AJM, Burchfield DJ. Noise-induced hearing loss in fetal sheep. Hearing Res 1994;74:221-230.

42. Pierson LL, Gerhardt KJ, Rodriguez GP, Yanke RB. Relationship between outer ear resonance and permanent noise-induced hearing loss. Am J Otolaryngol 1994;15:37-40.

43. Pierson LL, Gerhardt KJ, Abrams RM, Griffiths SK, Peters AJM. Effect of impulse noise on the auditory brainstem response of the fetal sheep and the adult ewe: Case study. Military Medicine 1994;159:676-680.

44. Griffiths SK, Brown WS, Gerhardt KJ, Abrams RM, Morris RJ. The perception of speech sounds recorded within the uterus of a pregnant sheep. J Acoust Soc Am 1994;96:2055-2063.

45. Abrams RM, Gerhardt KJ, Richards DS, Peters AJM. Fetal vibroacoustic stimulation test: Features of the stimulus. Fetal and Maternal Medicine Rev 1995;7:87-97.

46. Rarey KE, Gerhardt KJ, Curtis LM, ten Cate WJF. Effect of stress on cochlear glucocorticoid protein: Acoustic stress. Hearing Res 1995;82:135-138.

47. Pierson LL, Gerhardt KJ, Griffiths SK, Abrams RM. Auditory brainstem response in sheep: Part I: Fetal development. Dev Psychobiol 1995;28:293-305.

48. Abrams RM, Gerhardt KJ, Rosa C, Peters AJM. Fetal acoustic stimulation test: Stimulus features of three artificial larynxes recorded in sheep. Am J Obstet Gyn 1995;173:1372-1376.

49. Peters AJM, Abrams RM, Gerhardt KJ, Griffiths SK. Sound pressure gradients across the head of fetal sheep *in utero* during vibroacoustic stimulation. J Low Freq Noise Vib 1995;14:1-9.

50. Ma YL, Gerhardt KJ, Curtis LM, Rybak LP, Whitworth C, Rarey KE. Combined effects of adrenalectomy and noise exposure on compound action potentials, endocochlear potentials and potassium concentration. Hearing Res 1995;91:79-86.

51. Abrams RM, Gerhardt KJ, Peters AJM. Transmission of sound and vibration to the fetus. In: Fetal Development: A Psychobiological Perspective. J-P. Lacanuet, W.P. Fifer, N.A. Krasnegor, and W.P. Smotherman (eds.), Lawrence Erlbaum Associates, Publishers, New Jersey. 1995;315-330.

52. Gerhardt KJ, Pierson LL, Abrams RM. Fetal response to intense sounds. In: Scientific Basis of Noise-Induced Hearing Loss. A. Axelsson, P-A. Hellstrom, H.M. Borchgrevink, D. Henderson, R. P. Hamernik and R. Salvi (eds.). Thieme Medical Publishers, Inc., New York, 1996;229-240.

53. Griffiths SK, Pierson LL, Gerhardt KJ, Abrams RM, Peters AJM. Auditory brainstem response in sheep. Part II: Postnatal development. Dev Psychobiol 1996;29:53-68.

54. Peters AJM, Abrams RM, Gerhardt KJ, Wasserman DE. Acceleration of fetal head induced by vibration of maternal abdominal wall in sheep. Am J Obstet Gyn 1996;174:552-556.

55. Gerhardt KJ, Abrams RM. Fetal Hearing: Characterization of the stimulus and response. Sem Perinatol 1996;20:11-20.

56. Abrams RM, Gerhardt KJ. Vibration of the abdominal segment in pregnant sheep. Sem Perinatol 1996;20:30-37.

57. Gerhardt KJ, Huang X, Arrington KE, Meixner KE, Abrams RM, Antonelli PJ. Fetal sheep hear through bone conduction. Am J Otolaryngol 1996;17:374-379.

58. Ma YL, Rarey RE, Gerhardt KJ, Curtis LM, Rybak LP. Electrochemical potentials and potassium concentration profiles recorded from perilymph, endolymph, and associated inner ear tissues in adrenalectomized rats. Hearing Res 1996;96:151-156.

59. Ma YL, Gerhardt KJ, Rybak LP, Curtis LM, Rarey KE. In situ real-time sequential potentiometric determinations of potassium concentrations from three cochlear regions in noise-exposed rats. Eur Arch Otorhinolaryngol 1996;253:201-204.

60. Abrams RM, Schwab M, Gerhardt KJ, Bauer R, Peters AJM. Vibroacoustic stimulation with a complex signal: Effect on behavioral state in fetal sheep. Biol Neonate 1996;70:155-164.

61. Rarey KE, Ma YL, Gerhardt KJ, Fregly MJ, Garg LC, Rybak LP. Correlative evidence of hypertension and altered cochlear microhomeostasis: Electrophysiological changes in the spontaneously hypertensive rat. Hearing Res 1996;102:63-69.

62. Ma YL, Rarey KE, Gerhardt KJ, Rybak LP, Garg LC. Altered calcium homeostasis in the rat cochlear duct and endogenous corticosteroid insufficiency. Eur Arch Otorhinolaryngol 1997;254:165-168.

63. Abrams RM, Peters AJM, Gerhardt KJ. Effects of abdominal vibroacoustic stimulation on sound and acceleration levels at the head of the fetal sheep. Obstet Gynecol 1997;90:216-220.

64. Huang X, Gerhardt KJ, Abrams RM, Antonelli PJ. Temporary threshold shifts induced by low-pass and high-pass filtered noises in fetal sheep *in utero*. Hearing Res 1997;113:173-181.

65. Abrams RM, Gerhardt KJ, Kelly-Jones A, Huang X, Peters AJM. Acceleration of the fetal head: Effect of distance from vibration source. J Sound Vib 1997;206:442-447.

66. Bauer R, Abrams RM, Schwab M, Stein J, Gerhardt KJ. Electrocortical and heart rate response during vibroacoustic stimulation in fetal sheep. Am J Obst Gyn 1997;177:66-71.

67. Abrams RM, Gerhardt KJ. Some Aspects of Foetal Sound Environment. In: Perception and Cognition of Music. I. Deliege and J. Sloboda (eds.), Lawrence Erlbaum, Inc., East Sussex, United Kingdom, 1997;87-106.

68. Abrams RM, Griffiths SK, Huang X, Sain J, Langford G, Gerhardt KJ. The fetal musical environment. Proceedings of the Eur Soc Cognitive Sciences Music 1997;684-687.

69. Gerhardt KJ, Huang X, Griffiths SK, Abrams RM. Effects of impulse noise on the hearing of fetal sheep *in utero*. Proceedings of the 16th International Conference on Acoustics and the 135th Meeting of the Acoustical Society of America 1998:Vol I-IV:2641-2652.

70. Abrams RM, Griffiths SK, Huang X, Sain J, Langford G, Gerhardt KJ. Fetal music perception: The role of sound transmission. Music Perception 1998;15:307-318.

71. Gerhardt KJ, Ma YL, Rybak LP, Rarey KE. Interaction of methylprednisolone and transient asphyxia on the inner ear of the adrenalectomized rat. Otolaryngol-Head Neck Surg 1998;118:338-343.

72. Antonelli PJ, Abrams RM, Gerhardt KJ, Schwab M, Bauer R. Vestibular function in the

fetal sheep. *Otolaryngol-Head Neck Surg* 1998;118:571-575.

73. Abrams RM, Gerhardt KJ, Kelly-Jones A, Peters AJM. Vibration transmission through the sheep pelvis. *J Sound Vib* 1998;214:383-388.
74. Abrams RM, Gerhardt KJ, Antonelli PJ. Fetal hearing. *Devel Psychobiol* 1998; 33(1):1-3.
75. Abrams RM, Gerhardt KJ, Griffiths SK, Huang X, Antonelli PJ. Intrauterine sounds in sheep. *J Sound Vib* 1998;216:539-542.
76. Abrams RM, Schwab M, Gerhardt KJ, Bauer R, Bludau, Antonelli PJ. Vestibular caloric responses and behavioral state in fetal sheep. *Inter J Pediat Otorhinolaryngol* 1998;45:59-68.
77. Abrams RM, Schwab M, Gerhardt KJ, Bauer R, Antonelli PJ. Caloric stimulation of the inner ear in fetal sheep: Effect on eye movements and electrocorticogram. *Inter J Pediatrics Otorhinolaryngol* 1998;45:59-68
78. Gerhardt KJ, Pierson LL, Huang X, Abrams RM, Rarey KE. Effects of intense noise exposure on fetal sheep auditory brainstem response and inner ear histology. *Ear Hear* 1999;20:21-32.
79. Abrams RM, Griffiths SK, Huang X, Gerhardt KJ, Langford G. Drum beats: What does the fetus hear? *Percussive Notes*, 1999:37:62-64.
80. Abrams RM, Gerhardt KJ, Huang X, Peters AJM, Langford RG. Musical experiences of the unborn baby. *J Sound Vibration* 1999; 231(1):253-258.
81. Abrams RM, Gerhardt KJ, Peters AJM. Transmission of sound and vibration to the fetus. *Percussive Notes* 1999;37(3):62-64.
82. Abrams RM, Peters AJM, Huang X, Wasserman DE, Gerhardt KJ. Response of the uterus to abdominal vibration in sheep. *J Sound Vibration* 1999; 230(3):725-728.
83. Gerhardt KJ, Abrams RM, Griffiths SK, Huang X, Peters AJM. Intrauterine sound pressure levels following impulse noise exposures in sheep. *Military Med*. 2000;165(2):153-156.
84. Antonelli PJ, Briggs RD, Gerhardt KJ. Hearing preservation with labrynthine ablation in otitis media. *Laryngology* 2000;110:1-8.
85. Gerhardt KJ. A doctoral degree in audiology offered through distance learning. In: *Teaching with Technology*, Brown DG (Editor). Anker Publishing Company, Inc. Bolton, MA, 2000: 129-132.
86. Bauer R, Gerhardt KJ, Abrams RM, Huang X, Bauer K. Effects of impulse stimulation on electrocorticogram and heart rate in fetal sheep. *Biology of the Neonate*, 2001;79:113-121.
87. Gerhardt KJ and Abrams RM. Fetal exposures to sound and vibroacoustic stimulation. *Journal of Perinatology*, 2001;20(2):21-30.
88. Abrams RM and Gerhardt KJ. Fetal Exposure to vibroacoustic stimulation. *Journal of Perinatology*, 2001;20(2):31-36.
89. Antonelli PJ, Gerhardt KJ, Abrams RM, Huang X. Fetal central auditory system metabolic response to cochlear implant stimulation. *Otolaryngology – Head and Neck Surgery*, 2002;127(3):131-137.
90. Gerhardt KJ, Abrams RM. Fetal Hearing: Implications for the Neonate. In *Music Therapy in the Unborn Child*. Monika Nocker-Ribaupierre (Hrsg.) Verlag Vandenhoeck & Rupecht, Gottingen, 2003: 44-61 (German).
91. Smith SL, Gerhardt KJ, Griffiths SK, Huang X, Abrams RM. Intelligibility of Sentences Recorded From the Uterus of a Pregnant Ewe and From the Fetal Inner Ear. *Audiology &*

Neuro-Otology, 2003;8:347-353.

92. Gerhardt KJ, Abrams, RM. Fetal Hearing: Implications for the Neonate. In Music Therapy for Premature and Newborn Infants. Monika Nocker-Ribaupierre, (Editor). Barcelona Publishers, Gilsum NH, 2004: 21-32 (English Translation).

PUBLISHED ABSTRACTS

53 published abstracts in: American Speech-Language-Hearing Association; Acoustical Society of America; Society for Gynecologic Investigation; Federation of American Societies for Experimental Biology; Physiologist; Southeastern Microscopy Society; American Journal of Obstetrics and Gynecology; International Union of Physiological Sciences; Association for Research in Otolaryngology

PRESENTATIONS (70 presentations from 1976 to 1993 not listed here)

1. Gerhardt KJ. Fetal hearing: measurement and response. Invited paper at the Thirty-fifth Navy Occupational Health and Preventive Medicine Workshop. Virginia Beach, Virginia, 1994.
2. Gerhardt KJ. Effects of intense noise on fetal sheep auditory brainstem response. Invited paper at the Vth International Conference on the Effects of Noise on Hearing. Gothenburg, Sweden, May 1994.
3. Pierson LL, Gerhardt KJ. Effects of intense noise on fetal sheep hearing mechanism. Presentation at 127th Meeting of the Acoustical Society of America. Cambridge, Massachusetts, June 1994.
4. Abrams RM, Gerhardt, KJ. Fetal sound environment. Proceedings of the Third International Conference for the Perception and Cognition of Music. University of Liege, Belgium, pp. 95-96, July 1994.
5. Abrams RM, Peters AJM, Gerhardt KJ. Effect of abdominal vibroacoustic stimulation on acceleration levels at the fetal head in sheep. Paper presented at the American Physiology Society conference. Sarasota, Florida, October 1994.
6. Ma YL, Gerhardt KJ, Curtis LM, Rybak LP, Rarey KE. Combined effects of adrenalectomy and noise exposure on compound action potentials, endocochlear potentials and potassium concentration. Paper presented at the Midwinter Research Meeting for the Association for Research in Otolaryngology. St. Petersburg Beach, Florida, February 1995.
7. Pierson LL, Gerhardt KJ, Griffiths SK, Abrams RM, Rarey KE. Effects of exposure to intense sound on fetal sheep *in utero*. Paper presented at the Midwinter Research Meeting for the Association for Research in Otolaryngology. St. Petersburg Beach, Florida, February 1995.
8. Crandell CC, Gerhardt KJ, Griffiths SK. Issues in noise-induced hearing loss. Instructional course presentation at the American Academy of Audiology convention. Dallas, Texas, March 1995.
9. Kelly-Jones A, Abrams RM, Gerhardt KJ, Peters AJM, Wilder DG. Response of the fetal pelvis to sinusoidal vibratory stimulation. Paper presented at the Experimental Biology Annual Meeting. Atlanta, Georgia, April 1995.

10. Gerhardt KJ, Huang X, Arrington KE, Meixner KE, Abrams RM. Method by which sounds reach the inner ear of fetal sheep *in utero*. Paper presented at the Experimental Biology Annual Meeting Atlanta, Georgia, April 1995.
11. Abrams RM, Gerhardt KJ. Response of the sheep pelvis to sinusoidal vibratory stimulation. Presentation at the First Annual Health Science Center Research Week. Gainesville, FL, October 17, 1995.
12. Abrams RM, Peters AJM, Gerhardt KJ. Effect on fetus of vibrational exposure of maternal abdominal segment. Presentation at the Inaugural Meeting of National Leaders in Women's Health. Gainesville, FL, February 16-17, 1996.
13. Huang X, Gerhardt KJ, Abrams RM, Rarey KE. Temporary threshold shifts induced by low-pass and high-pass filtered noises in fetal sheep in utero. Paper presented at the Midwinter Research Meeting for the Association for Research in Otolaryngology. St. Petersburg, Florida, February 1996.
14. Gerhardt KJ. Fetal hearing: Characterization of the stimulus and response. Paper presented at the International Conference on Pregnant Women in the Workplace. Gainesville, Florida, February 1996.
15. Crandell CC, Gerhardt KJ, Pierson LL. Current issues in noise-induced hearing loss. Instructional course presentation at the American Academy of Audiology convention. Salt Lake City, Utah, April 1996.
16. Abrams RM, Peters AJM, Gerhardt KJ. Effect on the fetus of vibrational exposure of maternal abdominal segment. Paper presented at the meeting of National Leaders in Women's Health conference. Gainesville, Florida 1996.
17. Abrams RM, Gerhardt KJ. The fetal sound environment. Presentation at the Third joint meeting of the Acoustical Society of American and Acoustical Society of Japan. Honolulu, Hawaii, December 1996.
18. Antonelli PJ, Abrams RM, Gerhardt KJ. Vestibular function in the fetus. Presentation at the 100th Annual Meeting of the American Academy of Otolaryngology-Head and Neck Surgery Foundation, Washington, D.C., October 1996.
19. Huang X, Gerhardt, KJ, Abrams RM, Rarey KE. Morphological evidence of noise-induced hearing loss in fetal sheep in utero. Paper presented at the Health Science Center Research Week, Gainesville, Florida, November 1996.
20. Huang X, Gerhardt, KJ, Abrams RM, Rarey KE. Morphological evidence of noise-induced hearing loss in fetal sheep in utero. Paper presented at the Midwinter Research Meeting for the Association for Research in Otolaryngology. St. Petersburg, Florida, February 1997.
21. Gerhardt KJ, Ma YL, Rybak LP, Curtis LM, Rarey KE. The effect of methylprednisolone and transient asphyxia on the inner ear of the adrenalectomized rat. Paper presented at the Midwinter Research Meeting for the Association for Research in Otolaryngology. St. Petersburg, Florida, February 1997.
22. Griffiths SK, Abrams RM, Huang X, Sain JP, Gerhardt KJ. Transmission of music and speech into the fetal environment. Paper presented at the Second Meeting of National Leaders in Women's Health. Gainesville, Florida, February 1997.
23. Abrams RM, Griffiths SK, Huang X, Sain J, Langford G, Gerhardt KJ. The fetal musical environment. Paper presented at the Third Triennial Conference of the European Society for the Cognitive Sciences of Music. Uppsala, Sweden, June 1997.
24. Pierson, LL, Gerhardt KJ, Abrams RM, Huang X. Effects of intense noise exposure on the

auditory brain-stem response and inner ear histology of fetal sheep. Invited paper presented at the Acoustical Society of America. San Diego, California, December 1997.

25. Gerhardt KJ, Pierson, LL, Abrams RM, Huang X. Transmission of continuous and impulse noise to the fetus in utero. Invited paper presented at the Acoustical Society of America. San Diego, California, December 1997.

26. Abrams, RM, Gerhardt KJ, Huang X. Women in the workplace: Effects of vibration exposure. Paper presented at the Women's Health Studies and Music: A Meeting of National, International and Regional Leaders. Gainesville, Florida, March 13-15, 1998.

27. Griffiths SK, Brown WS Jr., Abrams, RM, Dutka JD, Gerhardt KJ, Richards DJ. Her Mother's Voice. Paper presented at the Women's Health Studies and Music: A Meeting of National, International and Regional Leaders. Gainesville, Florida, March 1998.

28. Huang X, Gerhardt KJ, Griffiths SK, Abrams, RM. Effects of impulse noise on fetal sheep *in utero*. Paper presented at the Women's Health Studies and Music: A Meeting of National, International and Regional Leaders. Gainesville, Florida, March 1998.

29. Gerhardt KJ, Huang X, Griffiths SK, Abrams RM. Effects of impulse noise on the hearing of fetal sheep *in utero*. Invited paper presented at the Acoustical Society of America. Seattle, Washington, June 1998.

30. Gerhardt KJ. Effects of fetal and neonatal sound exposure. Invited paper at the Physical and Developmental Environment of the High-risk Infant Conference. Clearwater Beach Florida, January 1999.

31. Gerhardt KJ, Hall JT. Key issues for auditory development in preterm infants. Invited paper presented at the Physical and Developmental Environment of the High-risk Infant Conference. Clearwater Beach Florida, January 1999.

32. Huang X, Gerhardt KJ, Abrams RM, Antonelli PJ, Rarey KE. Scanning electron microscopy of fetal sheep inner ear tissue following impulse noise exposure. Paper presented at the Midwinter Research Meeting for the Association for Research in Otolaryngology. St. Petersburg, Florida, February 1999

33. Gerhardt KJ. Effects of impulse and continuous noise exposures on fetal hearing. Invited paper presented at the 24th Annual National Hearing Conservation Association Conference. Atlanta, Georgia, February 1999.

34. Huang X, Gerhardt, KJ, Abrams RM, Antonelli PJ, Rarey KE. Scanning electron microscopy of fetal sheep inner ear tissue following impulse noise exposure. Paper presented at the Annual conference of the Southeastern Microscopy Society. Gainesville, FL, March 1999.

35. Gerhardt KJ. Effects of fetal and neonatal sound exposure. Invited. Pediatric Grand Rounds, CME. Gainesville FL, July 1999.

36. Gerhardt KJ. Hearing loss in the neonate. Invited. Ob/Gyn Grand Rounds, CME. Gainesville FL, July 1999.

37. Gerhardt KJ. The AuD: Basic Sciences and Clinical Applications. Invited. Wisconsin Audiology Academy Conference. Elkhart Lake, WI, October 1999.

38. Gerhardt KJ. Sound and the fetus. Invited. 15th Annual Developmental Intervention in Neonatal Care Conference. Chicago, IL, November 1999.

39. Abrams, RM, Gerhardt KJ, Peters AJM, Langford, RG. Musical experiences of the unborn baby. Presentation at the National Conference of Developmental Biology. Miami FL, August 1999.

40. Gerhardt KJ. Fetal and early postnatal effects of noise exposure. Presentation at the

American Academy of Audiology Conference. Chicago, March 2000.

- 41. Gerhardt KJ. Industrial Audiology update. Presentation at the Florida Academy of Audiology Convention, Coral Springs FL, September 2000.
- 42. Gerhardt KJ. Doctor of Audiology Programs Update. Presentation at the Florida Academy of Audiology Convention, Coral Springs FL, September 2000.
- 43. Gerhardt, KJ, Graven S, Philbin MK. NICU Environment – Noise and noise control. Presentation at the National Perinatal Association Annual Clinical Conference and Exposition. Charlotte NC, November 2000.
- 44. Gerhardt KJ. The Virtual Factory. Faculty Showcase for Instructional Technology. Demonstration of a CD-ROM at the technology fair. Gainesville FL, March 2001.
- 45. Antonelli PJ, Gerhardt KJ, Abrams RM. Fetal central auditory system response to cochlear implantation in utero. Paper presented at the Annual Meeting of the American Academy of Otolaryngology-Head and Neck Surgery, Denver CO, September 2001.
- 46. Huang X, Gerhardt KJ. Intelligibility of speech recorded from the cochlea of fetal sheep in utero. Paper presented at the Midwinter Research Meeting for the Association for Research in Otolaryngology. St. Petersburg, Florida, February 2002.
- 47. Babeu L, Gerhardt KJ. Effects of noise, Chloroquine and antioxidants on ABR thresholds and DPOAE in guinea pigs. Paper presented at the Military Audiology Meeting. Nashville, TN, February 2002.
- 48. Grasso, M, Gerhardt, K, Sowell, R. The Importance of Strategic Intervention in Graduate Education. Conference of Southern Graduate School, Little Rock, Arkansas, February 2006.
- 49. Gerhardt, K, Correa V. Information Technology for Student Progress. Conference of Southern Graduate School, Little Rock, Arkansas, February 2006.