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Education	Ph.D.	Psychology	Kent State University	1996
	M.A.	Psychology	Kent State University	1994
	B.A.	Psychology	Baldwin-Wallace College	1991
Professional Experience	Associate Professor	The College of Wooster		2006-
	Assistant Professor	The College of Wooster		2000-2006
	Visiting Scholar	The Ohio State University		Fall 1999
	Assistant Professor	Lafayette College		1996-2000
	Instructor	Kent State University		1994-1996
Honors and Awards	Research Grant National Science Foundation (NSF)			2009-2011
	Editorial Board <i>Perception & Psychophysics</i>			2006-2012
	Research Grant CDC/National Institute for Occupational Safety & Health			2002-2004
	Board of Directors, International Community for Auditory Display			2003-2006
	Psychology Division Councillor, Council for Undergraduate Research			2003-2006
	Travel Grant for research in Japan, Great Lakes Colleges Association			2002
	Research Grant National Science Foundation (NSF)			1999-2002
	Instruction and Laboratory Improvement Grant (NSF)			1998-2000
	Nominee, Student Government Teaching Award, Lafayette College			1999
	NSF Panelist, International Conference on Auditory Display			1997
	Summer Faculty Research Fellowship, Lafayette College			1997
	Sigma Xi Grant in Aid of Research			1996
	Kent State Applied Psychology Center Research Fellowship			1995
	Excellence in Teaching Award, Kent State University			1995
	Sigma Xi Scientific Research Society Member			1995
	Graduate Student Representative, Experimental Training Committee			1993-1994
	Kent State University Graduate Assistantship			1991-1995
	Prokasy Award, Excellence in Psychology, Baldwin Wallace College			1991
Professional Associations	American Psychological Society (APS)			
	Acoustical Society of America (ASA)			
	Psychonomic Society			
	International Community for Auditory Display (ICAD)			
	Faculty for Undergraduate Neuroscience (FUN)			
	Council on Undergraduate Research (CUR)			
	American Institute of Physics (AIP)			
Research Interests	Auditory cognition		Music and Speech	
	Auditory motion perception		Human factors and auditory display	
	Evolution and Behavior		Perceptual and cognitive neuroscience	
Teaching Experience	Sensation and Perception		Evolutionary Psychology	
	Introductory Psychology		Physiological Psychology	
	Statistics and Experimental Design		Research Methods	
	The Neuroscience of Music and Sports		Human Factors	
	Sleep and Dreams		Cognitive Psychology	

Publications

Journal Articles

* Denotes
undergraduate

- Neuhoff, J.G., Planisek, R.,* & Seifritz E. (2009). Adaptive sex differences in auditory motion perception: Looming sounds are special. **Journal of Experimental Psychology: Human Perception and Performance** **35(1)** *in press*.
- Bach, D.R., Schächinger, H., Neuhoff, J.G., Esposito, F. Di Salle, sF., Lehmann, C., Herdener, M., Scheffler, K., Seifritz, E. (2008). Rising sound intensity: an intrinsic warning cue activating the amygdala. **Cerebral Cortex**, **18(1)**, 145-50.
- Seifritz, E., Di Salle, F., Esposito, F., Herdener, M., Neuhoff, J.G., Scheffler, K. (2006). Doubling BOLD signal in auditory cortex by neurophysiologically tuned fMRI. **Neuroimage**, **93(5)**, 2864-72.
- Maier, J.X., Neuhoff, J.G., Logothetis N.K., Ghazanfar, A.A. (2004). Multisensory integration of looming signals by rhesus monkeys. **Neuron**, **43**, 177-181.
- Neuhoff, J.G. (2003). Twist and shout: Audible facing angles and dynamic rotation. **Ecological Psychology**, **15**, 335-351.
- Rodstrom, M.A.,* & Neuhoff, J.G. (2003). Increased pitch increases accuracy of voice identification. **Perceptual and Motor Skills**, **97**, 665-70.
- Mustovic, H. Scheffler, K., Di Salle, F., Esposito, F., Neuhoff, J.G., Hennig, J. & Seifritz, E. (2003). Temporal integration of sequential auditory events: silent period in sound pattern activates human planum temporale. **Neuroimage**, **20**, 429-434.
- Seifritz E., Di Salle, F, Esposito F., Bilecen D., Neuhoff J.G., Scheffler, K. (2003). Sustained blood oxygenation and volume response to repetition rate-modulated sound in human auditory cortex. **Neuroimage**, **20**, 1365-1370.
- Seifritz, E., Esposito, F., Neuhoff J.G., Lüthi A., Mustovic, H., Dammann, G., von Bardeleben U., Radue E.W., Cirillo, S., Tedeschi, G., Di Salle, F. (2003). Differential sex-independent amygdala response to infant crying and laughing in parents versus non-parents. **Biological Psychiatry**, **54**, 1367 - 1375.
- Seifritz, E., Esposito, F. Neuhoff, J.G., Di Salle, F. (2003). Sound analysis in auditory cortex – from temporal decomposition to perception. **Trends in Neurosciences**, **26**, 231-232.
- Neuhoff, J.G. (2003) Pitch variation is unnecessary (and sometimes insufficient) for the formation of auditory objects. **Cognition**, **87**, 221-226.
- Seifritz, E. Neuhoff, J.G., Bilecen, D., Scheffler, D., Mustovic, H., Schächinger, H., Elefante, R., & Di Salle, F. (2002) Neural processing auditory 'looming' in the human brain. **Current Biology**, **12**, 2147-2151.
- Ghazanfar, A.A., Neuhoff, J.G. & Logothetis N.K. (2002). Auditory looming perception in rhesus monkeys. **Proceedings of the National Academy of Sciences, USA**, Nov. 26, **99**, 15755-15757.
- Seifritz, E., Esposito, F., Hannel, F., Mustovic, H., Neuhoff, J.G., Bilecen, D., Tedeschi, G., Scheffler, K., & Di Salle, F. (2002). Spatiotemporal pattern of neural processing in the human auditory cortex. **Science**, Sep.6, **297** 1706-1708
- Neuhoff, J.G., Kramer, G., & Wayand, J. (2002). Pitch and loudness interact in auditory displays: Can the data get lost in the map? **Journal of Experimental Psychology: Applied**, **8**, 17-25.
- McBeath, M.K., & Neuhoff, J.G. (2002). The Doppler effect is not what you think it is: Dramatic pitch change due to dynamic intensity change. **Psychonomic Bulletin & Review**, **9**, 306-313.

- Neuhoff, J.G., Rodstrom, M.A.* & Vaidya, T.* (2001). The audible facing angle. **Acoustic Research Letters Online**, **2**, 109-114.
- Neuhoff, J.G. (2001) An adaptive bias in the perception of looming auditory motion. **Ecological Psychology**, **13**, 87-110.
- Neuhoff, J.G. (2000). Classroom demonstrations in perception and cognition using presentation software. **Teaching of Psychology**, **27**, 142-144.
- Neuhoff, J.G., McBeath, M.K., & Wanzie, W.C.* (1999). Dynamic frequency change influences loudness perception: A central, analytic process. **Journal of Experimental Psychology: Human Perception and Performance**, **25**, 1050-1059.
- Neuhoff, J.G. (1999). Perception of changes in loudness: Reply to Canévet et al. **Nature**, **398** (6729), 673-674.
- Neuhoff, J.G. (1998). A perceptual bias for rising tones. **Nature**, **395** (6698), 123-124.
- Neuhoff, J.G., & McBeath, M.K. (1997). Overcoming naïve mental models in explaining the Doppler shift: An illusion creates confusion. **American Journal of Physics**, **65**, 618-621.
- Neuhoff, J.G., & McBeath, M.K. (1996). The Doppler illusion: The influence of dynamic intensity change on perceived pitch. **Journal of Experimental Psychology: Human Perception and Performance**, **22**, 970-985.

Edited Books &
Book Chapters,

- Peres, S. C., Best, V., Brock, D., Shinn-Cunningham, B., Frauenberger, C., Hermann, T., Neuhoff, J., Nickerson, L., & Stockman, T. (2008). Auditory Displays. In P. Kortum (Ed.), **HCI Beyond the GUI: The Human Factors of Non-traditional Interfaces**: Morgan Kaufman. pp. 147-196
- Neuhoff, J.G., Ed. (2004). **Ecological Psychoacoustics**. New York: Academic Press.
- Neuhoff, J.G. (2004). Ecological psychoacoustics: Introduction and history. In J.G. Neuhoff (Ed.) **Ecological Psychoacoustics**, 1-13. New York: Academic Press.
- Neuhoff, J.G. (2004). Auditory motion and localization. In J.G. Neuhoff (Ed.) **Ecological Psychoacoustics**, 87-111, New York: Academic Press.
- Neuhoff, J.G. (2004). Interacting perceptual dimensions. In J.G. Neuhoff (Ed.) **Ecological Psychoacoustics**, 249-269, New York: Academic Press.

Technical Reports,
& Refereed
Proceedings

- Neuhoff, J. G. & Heller, L. M. (2005). One small step: Sound sources and events as the basis for auditory graphs. **Proceedings of the 11th International Conference on Auditory Display**, Limerick, Ireland.
- Neuhoff, J.G., Heckel, T.* (2004). Sex differences in perceiving auditory 'looming' produced by acoustic intensity change. **Proceedings of the 10th International Conference on Auditory Display**, Sydney, Australia.
- Neuhoff, J.G., Knight, R.* & Wayand, J. (2002). Musicians, non-musicians, and the perception of pitch change: Which way is up? **Proceedings of the 8th International Conference on Auditory Display**, Kyoto, Japan.
- Neuhoff, J.G. (2001). Ecological psychoacoustics: Loudness change, distance relations, and evolution. **Proceedings of the 17th International Congress on Acoustics**. Rome, Italy.

- Neuhoff, J.G. (2001). Perceiving acoustic orientation in three-dimensional space. **Proceedings of the 7th International Conference on Auditory Display**, Helsinki, Finland, 111-116.
- Neuhoff, J.G. (2001) Perceiving acoustic source orientation with dynamic rotation cues. In G. Burton and R. Schmidt (Eds.) **Studies in Perception and Action VI: Eleventh International Conference on Perception and Action**. Earlbaum: Mahwah, NJ.
- Neuhoff, J.G., Kramer, G., & Wayand, J. (2000). Sonification and the interaction of perceptual dimensions: Can the data get lost in the map? **Proceedings of the International Conference on Auditory Display**, Atlanta, GA. 93-98.
- Kramer, G., Walker, B., Bonebright, T., Cook, P., Flowers, J., Miner, N., Neuhoff, J.G. et al. (1999). Sonification report: Status of the field and research agenda. **Technical Report prepared for the National Science Foundation** (ISBN 0-9670904-0-7).
- Neuhoff, J.G. (1998). Dynamic intensity change influences perceived pitch: Attentional differences between musicians and non-musicians. **Proceedings of the 16th International Congress on Acoustics and 135th meeting of the Acoustical Society of America**, 2359-2360.
- Neuhoff, J.G. & Wess, J.S. (1998). Preferential detection of rising versus falling intensity. **Proceedings of the 16th International Congress on Acoustics and 135th meeting of the Acoustical Society of America**, 887-888.

Grants

- Neuhoff, J.G. A Common Cognitive Foundation for Rhythm in Music and Speech, *National Science Foundation*, 2009-2011, **\$38,371**
- Neuhoff, J.G. Auditory Motion and Pedestrian-Motor Vehicle Collisions. Research Grant, *Centers for Disease Control- National Institute for Occupational Safety and Health*, 2002-2004, **\$103,424**.
- Neuhoff, J.G. Dynamic Interaction of Pitch and Loudness. Research Grant, *National Science Foundation*, 1999-2002, **\$70,023**.
- Neuhoff, J.G., Travel grant for collaborative research in Kyoto, Japan. *Great Lakes Colleges Association*, Japan Study Program 2002, **\$2,000**.
- Hill, W.L., McGlone, M.S., & Neuhoff, J.G. Integrating Neuroscience in Psychology Laboratory Courses. Instruction and Laboratory Improvement Grant, *National Science Foundation*, 1998-2000, **\$44,124**.
- Neuhoff, J.G. The Dynamic Interaction of Pitch and Loudness Perception: Implications for the Hearing Impaired, Virtual Auditory Display, and Reverse Engineering of Bioacoustic Systems. Summer Faculty Research Fellowship, *Lafayette College*, 1997, **\$4,000**.
- Neuhoff, J.G. Dynamic Interaction of Pitch and Loudness: Implications for Enhanced Virtual Audio Displays, Bioacoustic Processing, and Auditory Pattern Representation. Research Grant, *Sigma Xi, The Scientific Research Society*. 1996, **\$800**.
- Neuhoff, J.G. The Influence of Dynamic Intensity Change on Perceived Musical Pitch. Research Grant, *Kent State Applied Psychology Center* 1995, **\$800**

Invited Addresses

Department of Psychology, University of Connecticut, March, 2009
Acoustics '08, Paris, July, 2008
International Congress on Acoustics, Madrid, September, 2007
Department of Psychology, Cleveland State University, February 2006
Department of Psychology, Bowling Green State University, October 2005
Department of Psychology, Kent State University, April 2005
Department of Communication Sciences, University of South Carolina, March 2005
Department of Psychology, University of Birmingham (UK), February 2005
Department of Psychology, Brown University, February, 2005
Department of Psychology, DePauw University, April 2004
Annual Meeting of The Acoustical Society of America, Nashville, May, 2003
Office of Naval Research Cognition Symposium, George Mason University, May, 2002
International Congress on Acoustics, Rome, Italy, September 2001
Department of Psychology, The University of Virginia, March, 1998
Department of Speech and Hearing Science, The Ohio State University, July, 1998
Department of Otorhinolaryngology University of Pennsylvania, December, 1998

Professional Presentations

Weigand, P. & Neuhoff, J. G. Rhythm production and the relationship between free response speech, rehearsed speech, and music composition in American English speaking musical novices. *Annual Meeting of the Midwestern Psychological Association*, Chicago, IL, May 2008.

Long, K., Worthington, R., Clark, J., Neuhoff, J. G. Survival of the fittest: Physical fitness predicts auditory looming perception. *Auditory Perception, Cognition and Action Meeting (APCAM)*, Chicago, IL, November 2008.

Neuhoff, J. G. Rhythmic speech perception shows how music novices 'compose'. *Annual Meeting of the Psychonomic Society*, Chicago, IL, November 2008

Neuhoff, J. G. Behavioral relevance: a guiding principle in investigating the perception of sound source properties. *Acoustics '08, Paris*, France July 2008.

Wedd, A. & Neuhoff, J. G. The influence of musical familiarity on cognition. *Annual Meeting of the Midwestern Psychological Association*, Chicago, IL, May 2008

Neuhoff, J. G. Perceiving looming sounds: the importance of auditory motion as a sound source property. *International Conference on Acoustics*. Madrid, Spain. October, 2007

Neuhoff, J. G. & Stavnezer, A.J. Estrogen levels and auditory time-to-arrival estimates. *Auditory Perception, Cognition and Action Meeting (APCAM)*, Long Beach, CA, November, 2007.

Ropers, E. & Neuhoff, J. G. Uninterrupted: A time to arrival study. *Annual Meeting of the Midwestern Psychological Association*, Chicago, IL, May 2007.

Ford, T., Gray, S., Kettling-Law, E., Macauley, W., Neuhoff, J.G., Wood, T. Developing departmental assessment plans. *Higher Learning Commission Assessment Workshop*, February, 2006, Lisle, IL

Neuhoff, J.G., Bach, D. R. & Seifritz, E. Physiological effects of rising sound intensity. *Auditory Perception, Cognition and Action Meeting (APCAM)*, Houston, TX, November, 2006.

Neuhoff, J.G., Knight, R. & Wayand, J. Musical expertise and auditory displays: Dollars make 'sense' of pitch change. *Auditory Perception, Cognition and Action Meeting (APCAM)*, Toronto ON, November, 2005.

Neuhoff, J. G. & Heller, L. M. One small step: Sound sources and events as the basis for auditory graphs. *International Conference on Auditory Display*, Limerick, Ireland, July 2005

Neuhoff, J.G., & Seifritz, E. Sex differences in auditory looming perception, absent in auditory recession. *Meeting of the Acoustical Society of America*, Vancouver, BC, May, 2005

Neuhoff, J.G., The bias for auditory looming is diminished with increasing velocity. *Annual Meeting of the Psychonomic Society*, Minneapolis, MN November, 2004.

- Neuhoff, J.G., Maier, J.X., Logothetis N.K., Ghazanfar, A.A. Multisensory integration of looming signals by rhesus monkeys. *Auditory Perception, Cognition and Action Meeting (APCAM)*, Minneapolis, MN November, 2004.
- Neuhoff, J.G. & Heckel, T. Sex differences in perceiving auditory looming produced by acoustic intensity change. *International Conference on Auditory Display*, Sydney, Australia, July, 2004.
- Neuhoff, J.G., Tones, noise, and the perceptual bias for auditory looming. *Annual Meeting of the Psychonomic Society*, Vancouver, BC, November, 2003.
- Neuhoff, J.G., & Waal, M., Developmental errors in labeling pitch change: Which way is up? *Auditory Perception, Cognition and Action Meeting (APCAM)*, Vancouver, BC, November, 2003.
- Neuhoff, J.G. & Preston, F. A spatial auditory display for the prevention of pedestrian-motor vehicle collisions. *International Conference on Auditory Display*, Boston, MA, July, 2003.
- Neuhoff, J.G. Sex, acceleration, brain imaging, and rhesus monkeys: Converging evidence for an evolutionary bias for looming auditory motion. *Meeting of the Acoustical Society of America*, Nashville, TN, May, 2003.
- Neuhoff, J.G., Ghazanfar, A. A., & Logothetis N. K. Auditory looming perception in rhesus monkeys. *Auditory Perception, Cognition and Action Meeting (APCAM)*, Kansas City, November, 2002.
- Neuhoff, J.G., Di Salle, F., & Seifritz, E. Sex, brains, and acceleration: Converging evidence for an evolutionary bias for auditory approach. *Annual Meeting of the Psychonomic Society*, Kansas City, November, 2002.
- Neuhoff, J.G., Knight, R. & Wayand, J. Pitch change, sonification, and musical expertise: Which way is up? *International Conference on Auditory Display*, Kyoto, Japan, June, 2002
- Neuhoff, J.G., Bilecen, D., Mustovic, H., Scheffler, K., Di Salle, F., Schächinger, H. Seifritz, E. Cortical network underpinning the perceptual priority for rising intensity and auditory 'looming'. *Meeting of the Acoustical Society of America*, Pittsburgh, PA June, 2002.
- Knight, R., & Neuhoff, J.G., Musical training and the perceptual magnitude of musical intervals *Annual Convention of the Midwestern Psychological Association*. Chicago, IL, May 2002.
- Neuhoff, J.G., Fukai, K., Preston, J., & Willaman, K. Perceptual bias for accelerated intensity change: An evolved mechanism? *Annual Convention of the Midwestern Psychological Association*. Chicago, IL, May 2002.
- Neuhoff, J.G. Are you talking' to me?? Perceiving the facing direction of acoustic sources in reverberant and anechoic environments. *Annual Meeting of the Psychonomic Society*, Orlando, November, 2001.
- Neuhoff, J.G. Ecological psychoacoustics: Loudness change, distance relations, and evolution. *17th International Congress on Acoustics*. Rome, Italy, September, 2001.
- Neuhoff, J.G. Perceiving acoustic orientation in three-dimensional space. *International Conference on Auditory Display*, Helsinki, Finland, July 2001.
- Neuhoff, J.G. Perceiving acoustic source orientation with dynamic rotation cues. *Eleventh International Conference on Perception and Action*. Storrs, CT, June 2001.
- Neuhoff, J.G., Rodstrom, M.A., Vaidya, T. The audible facing angle. *Meeting of the Acoustical Society of America*, Chicago, IL, May 2001.
- Neuhoff, J.G., Berger, C., Bruton, E. Gallagher, C., & Preston, J., A perceptual bias for looming auditory motion. *Annual Convention of the Midwestern Psychological Association*. Chicago, IL, May 2001.
- Neuhoff, J.G. A perceptual bias for oncoming auditory motion. *Annual Meeting of the Psychonomic Society*, New Orleans, November, 2000.

- Neuhoff, J.G. The dynamic interaction of pitch and loudness: Quantifying the effect. *Annual Convention of the American Psychological Society*. Miami, FL June 2000.
- Neuhoff, J.G., Kramer, G., & Wayand, J. Sonification and the interaction of perceptual dimensions: Can the data get lost in the map? *International Conference on Auditory Display*, Atlanta, GA, April 2000.
- Neuhoff, J.G. Dual mechanisms in dynamic loudness detection. *Annual Meeting of the Psychonomic Society*, Los Angeles, November, 1999.
- Neuhoff, J.G. A privileged perceptual status for rising intensity tones. *Meeting of the Acoustical Society of America, Berlin, Germany*, March, 1999.
- Neuhoff, J.G. A perceptual propensity for rising tone intensity. *Annual Meeting of the Psychonomic Society*, Dallas, TX, November, 1998.
- Neuhoff, J.G. Dynamic intensity change influences perceived pitch: Attentional differences between musicians and non-musicians. *Meeting of the Acoustical Society of America, Seattle, WA June*, 1998.
- Neuhoff, J.G. & Wess, J. Preferential detection of rising versus falling intensity. *Meeting of the Acoustical Society of America, Seattle, WA June*, 1998.
- Neuhoff, J.G. Panelist, National Science Foundation Forum on Data Sonification. *International Conference on Auditory Display*, Palo Alto CA, November, 1997.
- Neuhoff, J.G. The contextual influence of frequency change on dynamic loudness perception. *Annual Meeting of the Psychonomic Society*, Philadelphia, PA, November, 1997.
- Neuhoff, J.G. & McBeath, M.K. The Interaction of pitch and loudness in dynamic stimuli: Beyond the Doppler illusion. *Meeting of the Acoustical Society of America, State College, PA, June*, 1997.
- McBeath, M.K. & Neuhoff, J.G. Auditory pitch influenced dramatically by dynamic intensity change. *Meeting of the Acoustical Society of America, State College, PA, June*, 1997.
- Neuhoff, J.G. Multi-sensory interaction in navigation and spatial representation. *Kent Psychological Forum*, Millersburg, OH. April, 1997.
- Neuhoff, J.G. Enhanced memory effects provide evidence for a spatial representation of musical pitch. *Annual Convention of the Midwestern Psychological Association*. Chicago, IL, May 1996.
- Neuhoff, J.G. & McBeath, M.K. Musicians versus non-musicians in the perception of dynamic auditory stimuli. *Annual Convention of the Midwestern Psychological Association*. Chicago, IL, May 1995.
- McBeath, M.K. & Neuhoff, J.G. Immense illusory pitch change occurs with dynamic Doppler stimuli. *Annual Meeting of the Psychonomic Society*, St. Louis, MO. Nov. 1994.
- Neuhoff, J.G. & McBeath, M.K. Rising pitch with falling frequency: A new auditory illusion associated with the Doppler effect. *Annual Convention of the Midwestern Psychological Association*. Chicago, IL, May 1994.
- McBeath, M.K., Neuhoff, J.G., & Schiano, D.J. Familiar suspended objects appear smaller than actual independent of viewing distance. *Annual Convention of the American Psychological Society*. Chicago, IL, June 1993.

**Committee
Work**

College of Wooster

Human Subjects Review Committee
President's Taskforce on Faculty Workload
Chair, Assessment Committee
Science Media Advisory Board
Neuroscience Development Committee
Faculty Advisor to Hessen Residence House
Psychobiology Search Committee, 2001-2002

Lafayette College

Instructional Technology Committee
Video-Conferencing Advisory Committee
Student Appeals Committee
Coordinator Student-Faculty Research Forum
Faculty Resident, First Year House
Faculty Advisor to Psychology Club

**Review &
Professional
Activities**

Reviewer for:

Applied Cognitive Psychology
Cognition
Perception
Perception & Psychophysics
The Journal of Experimental Psychology: Applied
The Journal of Experimental Psychology: Human Perception & Performance
The Journal of the Acoustical Society of America
National Science Foundation
Oxford University Press
Lawrence Erlbaum Associates
Air Force Office of Scientific Research
Proceedings of the International Conference on Auditory Display

Founding Chairperson, *Auditory Perception, Cognition, and Action Meeting* (APCAM)
Board of Directors, *International Community for Auditory Display* (ICAD)
National Division Councillor in Psychology, *Council for Undergraduate Research* (CUR)

Consulting:

Dickinson College, Department of Psychology External Reviewer
Carroll College, Department of Psychology External Reviewer

**Media
Appearances**

Washington Post, Science Notebook, December 23, 2002
Amherst News Times, February 13th, 2002
National Public Radio "All Things Considered" September 9th, 1998
National Public Radio "Sounds Like Science" September 12th, 1998
BBC World Service Radio, September, 1998

References

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