



# Résumé

Richard A. Honeycutt, Ph.D.

<b>Education</b>	
	Ph. D., Interdisciplinary Arts and Sciences with Specialization in Electroacoustics, The Union Institute, 2004
	B. S. Physics, Wake Forest University, 1970
<b>Experience</b>	
	12 years full-time and 20 years part-time as designer/consultant in acoustics, sound-system, and speaker system design
	19 years full-time teaching electronics at college level
	11 years part-time as Contributing Editor for <i>Voice Coil</i> magazine
	Columnist/author for <i>AudioXpress</i> magazine
	2 years full-time as President/Chief Engineer of manufacturing company specializing in audio electronics and speaker drivers and systems
	3 years full-time as proprietor of musical instrument/ sound equipment retailer
	6 years full-time as Technical Writing Specialist, writing equipment operation and maintenance manuals for analog electronics equipment and engineering manuals on inductive interference and electrical protection
	9 years as part-time professional musician (guitar, trumpet, bass, sax, vocals)
	2 years part-time as assistant radio station engineer
<b>Partial List of Completed Projects</b>	

<p>First Baptist Church, Lexington, NC</p> <p>First United Methodist Church, Lexington, NC</p> <p>Poplin Grove Baptist Church, Albemarle, NC</p> <p>Freedom Baptist Church, Mocksville, NC</p> <p>Liberty Christian Fellowship, Kill Devil Hills, NC</p> <p>Starlight Missionary Baptist Church, Slidell, LA</p> <p>Freedom House Worship Center, Porirua, New Zealand</p> <p>Motion-picture theater and broadcast studios, High Point University, High Point, NC</p> <p>St. John's United Methodist Church, Aiken, SC</p> <p>Elizabeth Baptist Church, Shelby, NC</p>	
<b>Professional Affiliations and Certifications</b>	

<p>Member of Audio Engineering Society since 1976.</p> <p>Member of NC Regional Chapter of ASA since 1969. Chair 1998, 1999, 2012. Member of Executive Board.</p> <p>Member of Acoustical Society of America since 1998.</p> <p>Holder of First Class Commercial (now General Class Commercial) FCC license 1969-1984.</p> <p>Renkus-Heinz Certified Iconyx Designer.</p>	
<b>Principal Papers and Publications</b>	

**Books:**

*Acoustics in Performance*. Elektor, 2018.

*The State of Hollow-State Audio*. Elektor, 2020.

*Electromechanical Devices: Theory, Applications, and Troubleshooting*. Prentice-Hall, 1984.

*Op Amps and Linear Integrated Circuits*. Delmar Publishers, 1988.

**Periodicals:** (listed by topic, periodical, and date)

Church Multipurpose Room Acoustics, *Church Executive*, August 2010.

Design of THX™ cinemas, *AudioXpress*, September, 2009.

Acoustical Effects of pews, cushions, carpet, *Sound and Vibration*, December 2009.

Loudspeaker directivity, *Sound and Communications*, September 2005.

Numerous articles on loudspeaker design, testing, materials, technology, and manufacturing, *Voice Coil*, 1994 - present.

Numerous articles on loudspeaker design and on vacuum tube technology, *AudioXpress*, 2011 – present.

Digital recording, *Church Production*, July/Aug 2005.

Loudspeaker crossover network design, *Popular Electronics*, March 1991.

Loudspeaker connecting cables, *Radio Electronics*, February 1991.

Numerous articles on loudspeaker system design, *Speaker Builder*, 1985 - present.

Microphone Design and Application, *The Audio Amateur*, 1972 and 1973. Guitar acoustics, *Guitar Player*, 1971

**Papers Delivered:**

“Considerations and Complications of Predicting Sound Levels and Annoyance from a Proposed Shooting Range”, presented to NC Regional Chapter of ASA, November, 2013.

“The Measurement of Reverberation Time”, presented to NC Regional Chapter of ASA, September, 2009.

“Acoustical Effects of Pew Cushions and Carpeting in Worship Spaces”, presented to NC Regional Chapter of ASA, September, 2008.

“Computer Modeling in Architectural Acoustics: Prediction vs Measurement,” presented to NC Regional Chapter of ASA, September, 2006.

“Appropriate Technologies in Church and Auditorium Sound Systems,” presented to NC Regional Chapter of ASA, November, 2004.

"Loudspeaker Distortion Mechanisms," presented to NC Regional Chapter of ASA, April, 2002

"Electroacoustic Measurement Techniques," presented to NC Regional Chapter of ASA, October, 2001.

"A Loudspeaker Design Using Interleaved Horn Impedance Loading," presented to NC Regional Chapter of ASA, October, 2000.

"Acoustical Embarrassments in Church Auditorium Design," presented to NC Regional Chapter of ASA, October, 1996.

"Church Sound System Design Principles," presented to NC Regional Chapter of ASA, April, 1987.

"Doppler Distortion in Loudspeakers," presented to NC Regional Chapter of ASA, Oct., 1971.