

# *Stewart Acoustical Consultants*

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## W. Chris Eaton

**Education:** BSME, MSME Department of Mechanical and Aerospace Engineering  
North Carolina State University at Raleigh  
Graduate specialization in acoustics, vibrations, and noise control

**Technical, Standards, Professional Activities**  
Member – Acoustical Society of America  
Member – Institute of Noise Control Engineering  
Member – Audio Engineering Society  
Member – ASTM International Committee E33

Named Inventor on 25 issued patents related to telecommunications, acoustics and audio.

Musician – Woodwinds, guitar, bass

### **Experience:**

Mr. Eaton has over 25 years of experience in acoustics, vibrations, noise control with emphasis on automotive noise and vibration, product sound quality, and telecommunications. He has spent his career study the perception of sound and how its sources (mechanical, electroacoustic, voice...) and paths can be modeled, modified, or controlled to give a desired subjective response.

His first 10 years were devoted to automotive noise and vibration as an acoustical engineer at General Motors, and following that a product sound quality application engineer, measurement system expert, and consultant at HEAD acoustics, Inc. From those experiences he became adept at instrumentation, sound and vibration measurement and analysis including psychoacoustics and critical listening, as well as problem solving methodologies.

Mr. Eaton then focused on cellphone voice quality and electroacoustics for 15 years, primarily as an audio system designer at SonyEricsson followed by shorter periods at HTC, as an independent consultant and in technical sales. He has contributed designs and innovations in numerous award winning cellular devices known for their excellent audio. His expertise includes emerging technologies, modeling of speaker systems, audio system architecture, prototyping, and system tuning. He has considerable experience in accessory design including headphones and media players as well as experience in VOIP audio including design efforts for nurse call systems for hospitals.

Since March 2015 he has been with Stewart Acoustical Consultants focusing on environmental noise concerns, sound isolation, HVAC noise control, and architectural acoustics.