JAMES F. ABBOTT, PH.D.

Education

MASSACHUSETTS INSTITUTE OF TECHNOLOGY, CAMBRIDGE, MA
Ph.D., Physics, 1991.
Thesis: The Interaction of Sound and Shock Waves with Porous Materials

UNIVERSITY OF UTAH, SALT LAKE CITY, UT
Honors Program, Physics, 1979-1983

Teaching Experience

THE COOPER UNION
Adjunct Professor and Laboratory Director, October 2001- May 2010

- *Acoustics*
- *Musical Instrument Design*
- *Music Production / Audio Engineering*
- *Senior Projects in Acoustics / Mechanical Engineering*

Duties included teaching, research, curriculum development, laboratory development and direction, student advising including five Master's students.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY
Recitation Instructor, September 1989-June 1991

- *Mechanics, Electrodynamics*

Taught lectures to physics freshmen. Awarded **Buechner Prize** and **Goodwin Medal** (highest student teaching award at MIT) for excellence in teaching.

UNIVERSITY OF CALIFORNIA AT BERKELEY
Visiting Lecturer, September - January 1994, September - January 1995

- *Acoustics*

Delivered two full-semester courses on acoustic theory and engineering. Supervised numerous student projects on acoustic measurement and design.

Research/ Industry Experience

APPLE, INC., CUPERTINO, CA
Senior Validation and Test Engineer, August 2010 – July 2012
Led test programs for high-volume manufacturing of personal mobile devices via direct and broad-based factory support in Asia. Developed new test methods, innovated new test fixtures, and drove new factory processes.

ABBOTTSOUND, NEW YORK, NY
Director, January 1998 – May 2010
Investigated and researched acoustical factors; designed and tuned large-scale sound systems; produced and mixed electronic music.

EXPONENT / FAILURE ANALYSIS, MENLO PARK, CA
Managing Scientist, June 1995 – August 1997
Conducted acoustical analysis of audibility and noise exposure; designed and tested personal audio products; served as founding Director of Manhattan office.

STANFORD RESEARCH INSTITUTE (SRI INTERNATIONAL) , MENLO PARK, CA
Senior Research Physicist, September 1991 – June 1993
Directed acoustical design of active noise control systems.