

Vita for James Irwin Jr., Ph. D.

Rank

Assistant Professor: fall 97 to present

full time instructor: fall 87 to fall 97

Education

1. Ph.D., University of Illinois, Urbana-Champaign Ill., (Electrical engineering): 1997
2. MSEE, Bradley University, Peoria Ill.: 1981
3. BSEE (Summa Cum Laude), Bradley University, Peoria Ill.: 1980

Research, publications, and creative accomplishments -

1. Designed and constructed an Acoustical laboratory with a near Anechoic Chamber - 1999
2. Irwin Jr., J. H., "Timbre Effects Caused by Drumstick Tip Shapes/Sizes", *Proceeding of the Joint meeting of the International Congress on Acoustics & the Acoustical Society of America*, Seattle, Washington, USA, 1998.
3. Irwin Jr., J. H., "Energy Transfer into Drumhead from Steel & Nylon Ball Impacts", *Proceeding of the International Symposium on Musical Acoustics 1998*, Leavenworth, Washington, USA, 1998.

Consulting

1. 2000, Gilligan's, Sound Level Measurement for zoning compliance
2. 1996, AC Gentrol, Sound Level Measurement for Mobile Generator
3. 1988, TCC, Weather Sentry

Grants

1. Graduate Research Assistant Sponsored Program (GRASP) award for proposal titled, "Extending Displacement Measurements for Acoustic Modeling"

Senior Projects

1. Sanchez, J., Rickert, M. and advisor Irwin Jr., J. H., "Piano String Position Measurement," Senior Project Report, ECE Dept., Bradley University, Peoria, Illinois
to be published May 2000, see web page: <http://cegt201.bradley.edu/projects/proj2000/prjstrng/>
2. Schmanski, R., Janus, C., and advisor Irwin Jr., J. H., "Auto-Chromatic Musical InstrumentTuner," Project Report, ECE Dept., Bradley University, Peoria, Illinois
see web page: <http://cegt201.bradley.edu/projects/proj1999/atuner.html>

Professional memberships

1. Acoustical Society of America: 1992 to present
 - Technical Committee on Musical Acoustics: 1998 to present
2. Audio Engineering Society: 1992 to present
3. Tau Beta Pi - Engineering Honor Society: 1978 to present
4. Eta Kappa Nu - Electrical Engineering Honor Society: 1978 to present

Teaching experience

1. EE 452 Senior Lab Project: 2 times - s99, s00
2. EE 451 Senior Lab (Project Preparation): 2 times - f98, f99
3. EE 419 Engineering Analysis: 8 times - f88, f89, f91, f92, f93, f94, f95, f96
4. EE 402 Engineer & Society: 4 times - s89, s92, s94, s95
5. EE 332 Junior Laboratory: 2 times - s99, s00
6. EE 331 Junior Laboratory: 2 times - f98, f99
7. EE 311 Digital Hardware Organization: 2 times - f87, s93

8. EE 303 Microelectronics I: 1 time - f99
9. EE 304 Microelectronics II: 1 time - s00
10. EE 206 Sophomore Laboratory: 3 times - su98, su99, su00