



2014 HAWAII UNIVERSITY INTERNATIONAL CONFERENCES
ARTS, HUMANITIES & SOCIAL SCIENCES
JANUARY 4, 5 & 6 2014
ALA MOANA HOTEL, HONOLULU, HAWAII

THE BENEFITS OF VOCAL TECHNOLOGY IN INTERDISCIPLINARY COURSES IN THE ARTS IN A LIBERAL ARTS COLLEGE

BARBARA E. BURDICK
DEPARTMENT OF MUSIC
ALMA COLLEGE

Dr. Barbara E. Burdick
Department of Music
Alma College
Alma, MI

The benefits of vocal technology in interdisciplinary courses in the arts in a Liberal Arts College

Vocal technology provides the means for singers and teachers of singing to study the acoustics and muscular configuration of sound, using the programs of Voce Vista, SonoVu, and electromyography (EMG). The visual and aural feedback can train the singer to distinguish the differences between sounds and learn coordination. In the class model, “Science and Technology in the Graphic and Vocal Arts,” technological discoveries in the vocal and photographic arts are presented with a common goal of scientific and visual literacy in both areas. In an interdisciplinary course, often utilized in liberal arts colleges, vocal technology, presented to students of all majors and learning styles, offers a unique opportunity for students to experience biofeedback, gain knowledge of their vocal instrument, and of technology’s role in the creative arts.