

Quantifying and Measuring Fluid Dynamic Properties in the Singing Voice

- Muscular antagonism between the inspiratory and expiratory muscles and glottal resistance to air flow all contribute to breath support which we can now measure using a Phonatory Aerodynamic System.
- The Phonatory Aerodynamic System manufactured by KayPentax takes specific measures of breath flow, sound pressure threshold, frequency, and air pressure.
- The inflexible opening of the mask of the phonatory aerodynamic system makes it challenging to get reliable data from human voice production during singing because of the need for the articulators to change shapes- open and close- more drastically than in speech.



Working with materials technology and other voice science researchers may yield a solution for the issue the current mask poses

Dr. Chuck Chandler

College of Music

chuck.chandler@fsu.edu

859-489-1576