

5 juni 2013

STOCKHOLM WORKSHOP ON RESPIRATORY MEASUREMENTS

Wind Direction Sensor
Serial no. 396

Stockholm workshop on respiratory measurements June 5, 2013

The Phonetics lab at Stockholm University invites you to the Stockholm workshop on respiratory measurements, June 5th, 2013.

Several speech and phonetics labs around the world are currently creating facilities for doing respiratory measurements in relation to speech and conversation. This workshop aims at getting (at least) some of us interested in such respiratory measurements started.

To help us with this, we have invited **Professor Johan Sundberg** from the Sound and Music Computing group at Speech, Music and Hearing, KTH, who (among many other things) has been using these kinds of techniques to investigate the human voice as a musical instrument for many years. The core of the workshop will consist of setting up a respiratory measurement experiment under the guidance of Johan Sundberg. This hands-on session will include topics such as possibilities and limitations, calibration techniques (e.g. moving air from belly to chest), useful equipment, tricks of the trade, sanity checks, *et cetera*.

We also hope to get the opportunity to compare different sensors for respiratory measurements. The Phonetics lab at Stockholm University has *Respiratory Inductance Plethysmography sensors*, and Bielefeld University has *Piezo respiratory effort sensors*. These different sensors supposedly have different properties, and may be suitable for different kinds of investigations.

The Phonetics lab at Stockholm University will also present the custom processors that we have constructed for use with our inductance belts. We also hope to exchange experiences from using systems for data acquisition (DAQ) in respiratory measurements, such as identification of inhales and exhales.

For the organizing committee,
Mattias Heldner

Stockholm workshop on respiratory measurements June 5, 2013

Tentative programme Wednesday June 5, 2013

Room: Övningslaboratoriet, Phonetics lab, Stockholm University

		Start	End
Welcome and presentations	Mattias Heldner	10:00	10:15
Setting up a respiratory measurement experiment	Johan Sundberg and Mattias Heldner	10:15	11:45
Lunch someplace nice		11:45	13:30
Sensors and processors	Marcin Wlodarczak, Mattias Heldner, Peter Branderud	13:30	14:30
Coffee break		14:30	15:00
Discussion		15:00	17:00
Winestorming		17:00	?