

# SEMINARS AND CONFERENCES ARRANGED BY TMH

The seminars are held in either Swedish or English

## TMH Series of Seminars

### January

Om att bygga en gatuorgel  
*Johan Liljencrants*

Breathing and phonation – Effects of lung volume and breathing behavior on voice function  
*Jenny Iwarsson*      *Doctoral dissertation*  
*Opponent: Robert E. Hillman, Harvard Medical School*

Ljudkvalitet och användbarhet  
*Norman Gleiss*

### February

Reflexioner över fonetiken i talforskningen  
*Sven Öhman*

Attention-based user interfaces  
*Prof Roel Vertegaal, Queens University, Canada*

### March

Rapport från "Swedia 2000"-projektet – experiment med semi-automatiska metoder för uppmärknin av inspelningarna.  
*Anders Eriksson, Johan Frid & Kåre Sjölander*

Fokala accenter i svenska – mer än bara F0-rörelser?  
*Mattias Heldner*

Betoningsmönster i svenska lexikaliserade fraser  
*Per Anders Jande*      *MSc project work*

### April

Digitala delningsfilter och kanalinvertering  
*Mikael Bohman*      *MSc project work*

### May

The bowed string – starting the Helmholtz motion  
*Knut Guettler*      *Licentiate seminar*  
*Opponent: professor Peter Erman, KTH*

### June

Hörstöd, fonemigenkänning för hörselskadade i telefonsamtal  
*Mathias Johansson*      *MSc project work*

Modalitetstransformer med tillämpningar i system för funktionshindrade  
*Gunnar Fagerberg, CTT och Hjälpmedelsinstitutet*

Hur sammanfattas en text automatiskt av en dator?  
*Hercules Dalianis, NADA, KTH*

Prosody and waveform generation in the SmartKom System  
*Antje Schweitzer & Edmilson Morais, University of Stuttgart and Sony*

### September

Design of a 3D sound system for headphones – ett examensarbete i elektroakustik  
*Lalya Gaye*      *MSc project work*

Rapporter från Eurospeech 01 och sensommarens andra konferenser  
*TMH Speech Group*

## October

Media technology research at KTH  
*Nils Enlund & Roger Wallis, Media Teknik,  
NADA, KTH*

Estimation of sensory information transmission  
using a hidden Markov model of speech stimuli  
*Arne Leijon*

Speaker verification based on speech encoder  
parameters  
*Javier García Torcelly MSc project work*

## November

Olika sätt att beskriva diskursstruktur - en  
genomgång av de vanligaste diskursteorierna  
*Sofia Gustafson-Čapková, Stockholms  
universitet*

Development, analysis and implementation of a  
pitch tracker.  
*Leopold Roos MSc project work*

”Se och hör vad jag säger.” Om interaktiv,  
multimodal kommunikation för hörselskadade  
personer  
*Birgit Cook & Robert Haneklou*

Issues related to the communicative functions of  
facial displays - a literature review  
*Loredana Cerrato*

Swedish prosody. A novel approach to analysis  
and synthesis  
*Gunnar Fant, Anita Kruckenberg & Kjell  
Gustafson*

## December

Corpus based approaches to classifying semantic  
information and building resources  
*Sara Rydin*

Brusreduktion med hjälp av HMM och  
grundtonsestimering  
*Tobias Ljungkvist & Pål Brevik  
MSc project work*

Textoberoende talarverifiering med adapterade  
Gaussian-Mixture-modeller i GIVES  
*Daniel Neiberg MSc project work*

Datadriven formantsyntes  
*Arvid Sjölander MSc project work*

Text-till-tal-utvecklingen vid Rhetorical  
Systems  
*Matthew Aylett från Rhetorical Systems Ltd,  
Edinburgh*



## Special SPEECH Seminars

Bullet course - April  
Prosody as a marker of information status  
*Marc Swerts, IPO Eindhoven, Holland*



## TMH Seminars in MUSIC Acoustics

### March

Modeling violin vibrato  
*Erwin Schoonderwaldt, guest researcher from  
Nijmegen Inst for Cognition and Information*

Trombonspelets mekanik  
*Gitte Ekdahl, Inst för mekanik, KTH*

Expressive performance with flute  
*Roberto Dillon, guest researcher from  
Laboratory of Musical Informatics, DIST-  
University of Genova*

### April

Det rör sig i Genova  
*Sofia Dahl*

### May

Development of Helmholtz motion and related  
patterns in the bowed string  
*Knut Guettler Licentiate seminar  
Opponent: Prof Peter Eman, Fysik, KTH*

Melody lead in expressive piano performance  
*Werner Goebel, guest researcher from Austrian  
Research Inst for Artificial Intelligence*

### June

Violinens akustik: Frekvenssvar 200-700 Hz och  
bridgehill-toppens funktion.  
*Erik Jansson*

### August

Automatic extraction of tempo and beat from  
expressive musical performances.  
*Simon Dixon, Austrian Research Institute for  
Artificial Intelligence, Vienna*

**PEVOC IV**,  
the 4<sup>th</sup> Pan European Voice Conference,  
Stockholm, August 26-29, 2001, an international  
conference arranged together with Departments  
of Speech, Music and Hearing, KTH;  
Logopedics & Phoniatics at Huddinge  
University, Karolinska Institute; and Linguistics  
at Stockholm University.

### October

Time-frequency representation of sound  
modelling and transformation  
*Carlo Drioli, guest researcher from University  
of Padua, Italy*

### November

Rapport från 17th ICA, Rome och ISMA2001,  
Perugia, Italien  
*Anders Askenfelt & Erik Jansson*

Finite Element Modelling and synthesis of  
guitar tones  
*Eduardo Gonzalez, NADA and TMH*



## Seminars on the Singing Voice

### January

Breathing and phonation - Effects of lung  
volume and breathing behavior on voice  
function.  
*Jenny Iwarsson Doctoral dissertation  
Opponent: professor Robert Hillman, USA*



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