

International Seminar on Speech Production 2011

9th EDITION

OFFICIAL PROGRAM



Montréal (Québec)

June 20-23, 2011

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Registration:

Lobby (200, Sherbrooke West)

Oral sessions:

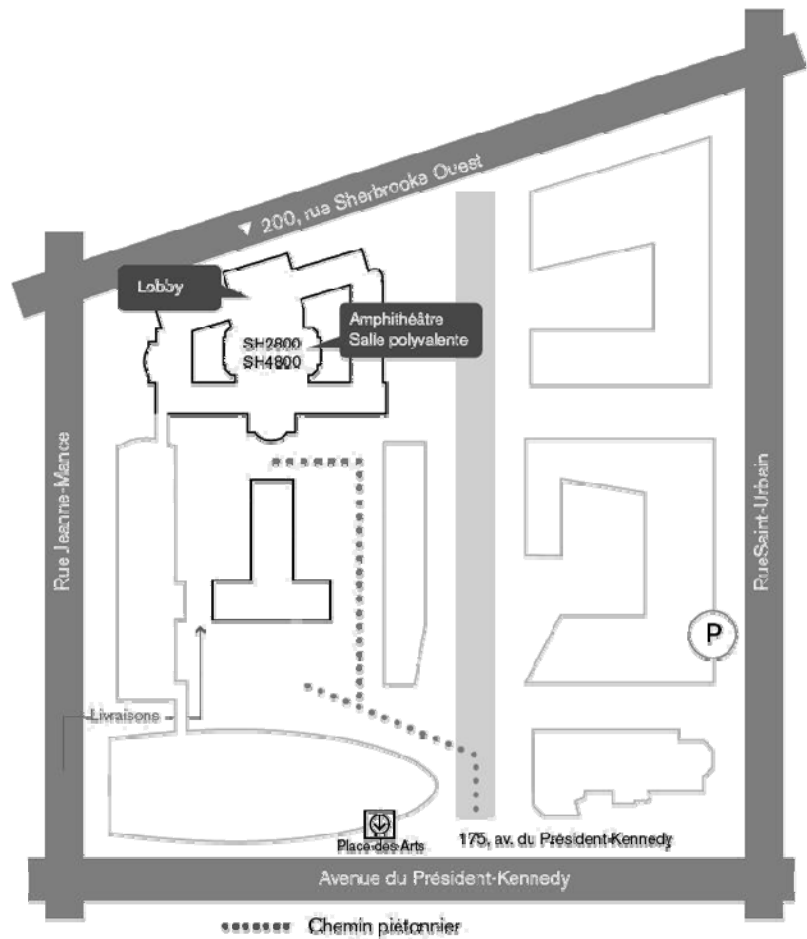
Amphithéâtre (SH2800)

Poster sessions:

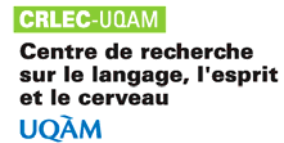
Salle polyvalente (SH4800)

Lunchroom:

Salle polyvalente (SH4800)



Sponsors and contributors



ORGANIZATION

Scientific Committee

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Dr. Lucie Ménard (CRLEC-UQAM)
Dr. Shari R. Baum (CRBLM)
Dr. Vincent L. Gracco (CRBLM)
Dr. David J. Ostry (CRBLM)

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Prof. Didier Demolin (Universidade de Sao Paulo & Université Libre de Bruxelles)
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Prof. Camille Yehia (University Federal of Minas Gerais – Brésil)
Prof. Pascal Perrier (Gipsa-Lab Grenoble)

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Dr. Lucie Ménard (CRLEC-UQAM)
Dr. Shari R. Baum (CRBLM)
Dr. Vincent L. Gracco (CRBLM)
Dr. David J. Ostry (CRBLM)
Dr. Aude Noiray (Haskins Laboratories)
Annie Brasseur (CRLEC-UQAM)

Volunteers

Amélie Prémont (Laboratoire de phonétique)
Suzie Groulx (Laboratoire de phonétique)
Marilène C. Rousseau (Laboratoire de phonétique)
Marilyn Giroux (Laboratoire de phonétique)
Francois-Xavier Brajot (Speech Motor Control Lab)
Isabelle Deschamps (Speech Motor Control Lab)
Benjamin Elgie (Speech Motor Control Lab)
Laureline Arnaud (Speech Motor Control Lab)

Foreword

The 9th International Seminar on Speech Production is being held in Montreal Canada from June 20 to 23, 2011. The Speech Production Seminar series dates to an original meeting in Grenoble in 1988. This seminar has much in common with previous meetings, focusing on aspects of speech production that range from linguistics to neuroscience. We are fortunate to have two distinguished invited talks by Michael Brainard from the University of California, San Francisco and Gary Weismer from University of Wisconsin-Madison. We also have a special session to honor Joseph Perkell's many contributions to our field.

ISSP 2011 is organized by the Centre de recherche sur le langage, l'esprit et le cerveau (CRLEC-UQAM) at the Université du Québec à Montréal (www.crlec.uqam.ca) and the Centre for Research on Brain, Language and Music (CRBLM) at McGill University and Université de Montréal (www.crlmb.ca). We wish to thank in particular Annie Brasseur and Aude Noiray, whose efforts made this meeting possible.

Dr. Lucie Ménard (CRLEC-UQAM)

Dr. Shari R. Baum (CRBLM)

Dr. Vincent L. Gracco (CRBLM)

Dr. David J. Ostry (CRBLM)



MONDAY JUNE 20

9:00 – 10:40 ORAL SESSION 1

NEUROLINGUISTICS

CHAIR: SHARI BAUM

- Maëva Garnier, Laurent Lamalle and Marc Sato
Neural correlates of phonetic convergence and speech imitation
- Benjamin Elgie, Shari Baum and Vincent Gracco
Activation of word-level speech production regions during suprasegmental speech perception differs by modality
- Christian Keller and Christian A. Kell
Preparation for speech perception and production identifies different contributions of brain regions to functional lateralization in ventral, dorsal and articulatory streams
- Krystyna Grabski, Laurent Lamalle and Marc Sato
Functional coupling and sensorimotor predictive coding of vowel perception and production
- Rachel Craven and Jeffery Jones
Event-related potential correlates of auditory-motor adaptation to frequency-altered auditory feedback

Recipient of the
Northern Digital Inc.
Excellence Award

10:40 – 11:00

COFFEE BREAK

11:00 – 12:00 ORAL SESSION 2

NEUROLINGUISTICS

CHAIR: VINCENT GRACCO

- Nicole Neef, Walter Paulus, Andreas Neef, Alexander Wolff von Gudenberg and Martin Sommer
Reduced intracortical inhibition and facilitation in the primary motor tongue representation of adults who stutter
- Krystyna Grabski, Laurent Lamalle and Marc Sato
Core neural network, somatotopy and predictive sensorimotor coding of orofacial movements
- Takayuki Ito, Alexis Johns and David Ostry
The modulation of facial somatosensory event-related potentials due to speech sounds

12:00 – 13:00

BUFFET LUNCH

MONDAY JUNE 20

13:00 – 14:40 ORAL SESSION 3

MEASUREMENT METHODOLOGIES

CHAIR: MARK TIEDE

Recipient of the
Northern Digital Inc.
Excellence Award

- Adam Lammert, Michael Proctor and Shrikanth Narayanan
Morphological variation in the adult vocal tract: A study using rtMRI
- Sadao Hiroya and Tatsuya Kitamura
Generation of a vocal-tract MRI movie based on sparse sampling

Recipient of the
Northern Digital Inc.
Excellence Award

- Yuanming Suo, Emi Murano, Maureen Stone and Jerry Prince
Semiautomatic segmentation of speech articulators using MRI
- Jonghye Woo, Maureen Stone and Jerry L. Prince
Deformable registration of multimodal tongue MR images
- Maureen Stone, Jonghye Woo, Yuanming Suo, Emi Z. Murano and Jerry L. Prince
Measuring muscle motion from cine MRI and tagged-MRI images

14:40 – 15:00

—————COFFEE BREAK—————

15:00 – 16:00 ORAL SESSION 4

MEASUREMENT METHODOLOGIES

CHAIR: PASCAL PERRIER

- Hironori Nishimoto, Yasuhiro Shimada, Ichiro Fujimoto, Shinobu Masaki and Kenya Murase
Observation of the tongue movement producing alveolar trill by high frame rate MRI-movie
- Adriano Barbosa, Martin Oberg, Philip Rubin, Hani Yehia and Eric Vatikiotis-Bateson
Using instantaneous correlation to assess intra and inter speaker coordination during speech
- Rudolph Sock, Fabrice Hirsch, Yves Laprie, Pascal Perrier, Béatrice Vaxelaire, Gilbert Brock, Fayssal Bouarourou, Camille Fauth, Véronique Ferbach-Hecker, Liang Ma, Julie Busset and Jean Sturm
DOCVACIM an X-ray database and tools for the study of coarticulation, inversion and evaluation of physical models

16:00 – 19:00 POSTER SESSION 1

WELCOMING COCKTAIL

POSTER SESSION 1

CHAIR: HÉLÈNE LOEVENBRUCK

1. Masaaki Honda, Kotaro Fukui, Rintaro Ogane and Atsuo Takanishi
Pathological Voice Production by Mechanical Vocal Cord Model
2. Camille Fauth, Béatrice Vaxelaire, Jean-François Rodier, Pierre-Philippe Volkmar, Fayssal Bouarourou, Fabrice Hirsch and Rudolph Sock
A spatiotemporal prospective study of speech in patients with or without recurrent laryngeal nerve paralysis after thyroid surgery
3. Marion Bechet, Ferbach-Hecker Véronique, Fabrice Hirsch and Rudolph Sock
F2/F3 of voiced plosives in VCV sequences in children with cleft palate an acoustic study
4. Tim Bressmann, Jana Zimmermann and Jonathan Irish
Production of tongue twisters by partial glossectomy patients
5. Aravind Namasivayam, Pascal van Lieshout, Robert Kroll, D.James Le and Frank Rudzicz
Voice onset self-monitoring abilities in persons who stutter
6. Laura Koenig, Christine Shadle and Jonathan Preston
Acoustic characterization of typical and misarticulated /s/ in adolescents
7. Torrey Loucks, Ryan Shosted, Michael Novak and Jennifer Black
Speech production skills in adults with cochlear implants
8. Kostas Kosta, Hung Thai-Van, David Ostry, Monique Porot, Eric Truy and Rafael Laboissière
Somatosensory representation of speech in cochlear implanted children
9. Ayoub Daliri, Roman Prokopenko and Ludo Max
Sensory and motor components of jaw movement precision in adults who stutter
10. Yves Laprie and Julie Busset
A curvilinear tongue articulatory model
11. Bruce Denby, Jun Cai, Thomas Hueber, Pierre Roussel, Gerard Dreyfus, Lise Crevier-Buchman, Claire Pillot-Loiseau, Gerard Chollet and Maureen Stone
Towards a practical silent interface based on vocal tract imaging
12. Julie Busset and Yves Laprie
Adaptation of cepstral coefficients for acoustic-to-articulatory inversion
13. Atef Ben Youssef, Pierre Badin and Gérard Bailly
Improvement of HMM-based acoustic-to-articulatory speech inversion
14. Miguel Carreira-Perpinan
Machine learning models of the tongue shape during speech
15. Nicolas d'Alessandro, Johny Wang, Bob Pritchard and Sidney Fels
Bringing bio-mechanical modelling of the OPAL complex as a mapping layer for performative voice synthesis

16. Tatsuya Kitamura and Tomonori Narishige
Development of plug-in for ImageJ to extract vocal tract area function
17. Bartosz Ziolk, Bartłomiej Miga and Tomasz Jadczyk
Semisupervised production of speech corpora using existing recordings
18. Sayoko Takano
An open database of high-quality MRI of speech organs : tongue, lip and larynx
19. Ling Tsou and Sidney Fels
Biomechanical modeling of the external laryngeal structures
20. Ryan Shosted, Christopher Carignan and Panying Rong
Estimating vertical larynx position with EMA
21. Ingmar Steiner and Slim Ouni
Towards an articulatory tongue model using 3D EMA
22. Grigore Pintilie, Krista Rudy, Yana Yunusova and Melanie Baljko
Acquisition of the 3D surface of the palate by in-vivo tracing with a probe
23. Alan Wrench
Very high frame rate ultrasound tongue imaging
24. Joanne Cleland, Alan Wrench, James M. Scobbie and Scott Semple
Comparing articulatory images : A cine-MRI / high-speed ultrasound tongue image database
25. Guillaume Barbier, Louis-Jean Boë, Anne Vilain and Guillaume Captier
Vocal tract growth from birth to adulthood, applications for articulatory studies in infants and biomechanical modeling of the vocal apparatus
26. D. H. Whalen, Khalil Iskarous, Will Grathwohl and Michael Proctor
Using digital ultrasound to investigate trill vibration
27. Adam Lammert, Michael Proctor, Louis Goldstein, Marianne Pouplier and Shrikanth Narayanan
Automatic identification of stable modes and fluctuations in a repetitive task using real-time MRI
28. Sven Grawunder and Leonardo Lancia
Assessing vertical larynx position in cineradiographic data – Correlating laryngeal height, glottal closure and vowel height
29. Hani Camille Yehia and Rafael Laboissière
Measuring the effects on the vocal tract acoustic transfer function caused by cross-sectional shape approximations

TUESDAY JUNE 21

9:00 – 10:40 ORAL SESSION 5

CO-ARTICULATION

CHAIR: PIERRE BADIN

- Qiang Liu and Alan Kawamoto
Anticipatory coarticulation, parallelism, and the programming unit in speech
- Stefania Marin
Organization of complex obstruent onsets in Romanian
- Leonardo Lancia and Susanne Fuchs
The labial coronal effect revisited
- Lasse Bombien and Philip Hoole
Articulatory overlap in French and German mixed-voicing clusters
- Mélanie Thibeault, Lucie Ménard, Annie Brasseur and Marie-Claude Lefebvre
Emotions and articulation

10:40 – 11:00

—————COFFEE BREAK—————

11:00 – 12:00 INVITED SPEAKER

CHAIR: MAUREEN STONE

Gary Weismer (University of Wisconsin-Madison, Department of Communicative Disorders)

A tentative approach to a speech production model and/or theory of motor speech disorders

12:00 – 13:00

—————BUFFET LUNCH—————

TUESDAY JUNE 21

13:00 – 14:40 ORAL SESSION 6

MODELING OF SPEECH PRODUCTION

CHAIR: JOSEPH PERKELL

- Iwaki Toshima, Sadao Hiroya, Takemi Mochida and Hiroaki Gomi
Motor command invariance during speech production investigated by physiological perioral dynamics model
- Peter Birkholz, Phil Hoole, Bernd J. Kröger and Christiane Neuschaefer-Rube
Tongue body loops in vowel sequences
- Chakir Zeroual, Philip Hoole and John H. Esling
Spatio-temporal and kinematic properties of jaw movements during intervocalic oral and guttural consonants
- Ralf Winkler, Liang Ma and Pascal Perrier
A model of optimal speech production planning integrating dynamical constraints to achieve appropriate articulatory timing
- Ian Stavness, Bryan Gick, Donald Derrick and Sidney Fels
Biomechanical modeling of English /r/ variants

14:40 – 15:00

—————COFFEE BREAK—————

15:00 – 16:00 ORAL SESSION 7

MODELING OF SPEECH PRODUCTION

CHAIR: PHILIP HOOLE

- Frank Guenther
The neural mechanisms of speech : From computational modeling to neural prosthesis
- Mohammad Ali Nazari, Pascal Perrier, Matthieu Chabanas and Yohan Payan
A 3D muscle element based on Equilibrium Point Hypothesis (EPH) and its application in a biomechanical face model
- Ralf Winkler, Susanne Fuchs, Pascal Perrier and Mark Tiede
Speaker-specific biomechanical models : From acoustic variability via articulatory variability to the variability of motor commands in selected tongue muscles

16:00 – 19:00 POSTER SESSION 2

POSTER SESSION 2

CHAIR: PASCALE TREMBLAY

1. Qiang Liu and Alan Kawamoto
Contextual and individual variation in anticipatory coarticulation: The role of articulation strategies
2. Prasanta Ghosh and Shrikanth Narayanan
Information theoretic analysis of direct and estimated articulatory features for phonetic discrimination
3. Paula Martins, Catarina Oliveira, Carlos Ferreira, Augusto Silva and António Teixeira
3D MRI and semi-automatic segmentation techniques applied to the study of European Portuguese lateral sounds
4. Fayssal Bouarourou, Béatrice Vaxelaire, Rachid Ridouane, Fabrice Hirsch, Camille Fauth and Rudolph Sock
Gemination in Tarifit Berber : Doing one or two things at once?
5. Lucile Rapin, Marion Dohen, Lionel Granjon, Polosan Mircea, Pascal Perrier and Hélène Loevenbruck
Orofacial muscle activity during inner speech and auditory verbal hallucinations : Implications for a speech control model
6. António Teixeira, Paula Martins, Augusto Silva and Catarina Oliveira
An MRI study of consonantal coarticulation resistance in Portuguese
7. Melanie Weirich and Susanne Fuchs
Vocal tract morphology can influence speaker specific realisations of phonemic contrasts
8. Thomas Hueber, Pierre Badin, Christophe Savariaux, Coriandre Vilain and Gérard Bailly
Differences in articulatory strategies between silent, whispered and normal speech? A pilot study using electromagnetic articulography
9. Benjamin Parrell, Louis Goldstein, Sungbok Lee and Dani Byrd
Temporal coupling between speech and manual motor actions
10. Benjamin Roustan and Marion Dohen
The influence of the communicative relationship between manual gesture and speech on their temporal coordination in a designation task
11. Mohamed Yeou, Kiyoshi Honda and Shinji Maeda
Articulatory and acoustic characteristics of some geminates in Figuig Berber
12. Christopher Carignan
French Nasal Vowels: Motor Equivalence in Vowel Dispersion
13. Ingmar Steiner and Slim Ouni
Investigating articulatory differences between upright and supine posture using 3D EMA

14. Chenhao Chiu, Andrew Stevenson, Dana Maslovat, Romeo Chua, Bryan Gick and Ian Franks
CV syllables as pre-planned units of action
15. Anneke Slis and Pascal van Lieshout
Normal movement amplitude variation in different consonant and vowel contexts
16. Alexei Kochetov and Laura Colantoni
Gestural coordination in Spanish /s/ weakening : An electropalatographic study
17. Panying Rong, Ryan Shosted and Christopher Carignan
The relationship between velopharyngeal opening and place of articulation : An aerodynamic and EPG investigation
18. Man Gao, Christine Mooshammer, Christina Hagedorn, Hosung Nam, Mark Tiede and Louis Goldstein
Comparison of inter- and intrasyllabic coordination in repetitive speech of Taiwanese and English
19. Anne Bonneau and Brigitte Wrobel-Dautcourt
Efficiency of five labial correlates for /i/ and /y/ in adverse contexts
20. Christian Kroos, Rikke Bundgaard-Nielsen and Catherine Best
Observable and unobservable speech articulation
21. Amanda Miller and Abigail Scott
The phonetic basis of synchronic and diachronic phonological patterns involving the retroflex click in Juu languages
22. Kwang Seob Kim, Rick Huang and Ludo Max
Quantifying feedforward versus feedback control through kinematic analyses of unperturbed speech movements
23. Li Yingshing
Lexical effects on incomplete sibilant neutralization of Taiwan Mandarin
24. Christina Hagedorn, Michael Proctor, Louis Goldstein and Shrikanth Narayanan
Automatic analysis of geminate consonant articulation using real-time magnetic resonance imaging
25. Hironori Takemoto, Seiji Adachi, Parham Mokhtari and Tatsuya Kitamura
Acoustic interaction between right and left piriform fossae
26. Christian Geng, Andrew Bates, Martin Ling, D.k. Arvind, Alice Turk and Philip Hoole
An alternative technique for measuring respiratory motion in speech
27. Christine Shadle, Khalil Iskarous and Michael Proctor
Articulatory differences between voiced and voiceless fricatives
28. Ian Stavness, John Lloyd, Yohan Payan and Sidney Fels
Towards speech articulation simulation with a dynamic coupled face-jaw-tongue model

WEDNESDAY JUNE 22

9:00 – 10:40 ORAL SESSION 8

SPEECH AND LANGUAGE:
FROM ACQUISITION TO AGING

CHAIR: BRYAN GICK

- Pascale Tremblay, Anthony S. Dick, Blythe Buchholz and Steven L. Small
Age-related changes in the role of the motor system in the perception and production of speech
- Nichole Scheerer, Sarah D'Alton, Hanjun Liu and Jeffery Jones
The effects of frequency-altered feedback on the vocal productions of Canadian-English speaking children
- Aude Noiray, Lucie Ménard and Khalil Iskarous
The development of lingual coarticulation in children: ultrasound and acoustic measurements
- Richard S. McGowan, Margaret Denny, Rebecca W. McGowan and Susan Nittrouer
Physical scaling, anatomical, and neuromuscular constraints during speech development
- Louis-Jean Boë, Jean Granat, Pierre Badin, Guillaume Captier and Guillaume Barbier
Ability of reconstituted fossil vocal tracts to produce speech - Phylogenetic and ontogenetic considerations

10:40 – 11:00 ————— COFFEE BREAK —————

11:00 – 12:00 INVITED SPEAKER

CHAIR: DAVID OSTRY

Michael Brainard (University of California, San Francisco School of Medicine, Department of Physiology)

Vocal learning in adult songbirds

12:00 – 13:00 ————— BUFFET LUNCH —————

WEDNESDAY JUNE 22

13:00 – 14:40 ORAL SESSION 9

SPEECH PERCEPTION

CHAIR: MARC SATO

- Huiwen Goy, Kathy Pichora-Fuller and Pascal van Lieshout
Acoustic and articulatory changes accompanying different speaking instructions and listening situations
- David Purcell, Ewen MacDonald and Kevin Munhall
Cross-vowel use of auditory feedback in English
- Rintaro Ogane and Masaaki Honda
Speech compensation to time-scale modified auditory feedback
- Yukiko Nota, Shinobu Masaki and Yutaka Ichinose
Brain activity during speech under delayed auditory feedback
- Jennifer Abel, Adriano Vilela Barbosa, Alexis Black, Connor Mayer and Eric Vatikiotis-Bateson
The labial viseme reconsidered : Evidence from production and perception

14:40 – 15:00

COFFEE BREAK

15:00 – 16:00 ORAL SESSION 10

SPEECH PERCEPTION

CHAIR: RUDOLPH SOCK

- Laureline Arnaud, Lucie Ménard, Sato Marc and Vincent Gracco
Auditory speech processing and predictive coding activate the visual cortex in congenitally blind adults
- Melanie Matthies, Mark Tiede, Miwako Hisagi and Joseph Perkell
The relation between sibilant production and perception in speakers who use cochlear implants
- Clément Moulin-Frier, Raphaël Laurent, Pierre Bessièrè, Jean-Luc Schwartz and Julien Diard
Noise and inter-speaker variability improve distinguishability of auditory, motor and perceptuo-motor theories of speech perception : An exploratory Bayesian modeling study

16:00 – 19:00 POSTER SESSION 3

POSTER SESSION 3

CHAIR: MAEVA GARNIER

1. Faisal Aljasser
The use of English phonotactic probability to facilitate vocabulary learning of English as a foreign language (EFL)
2. Irina Pivneva, Caroline Palmer and Debra Titone
Inhibitory capacity and second language ability modulate bilingual spontaneous speech in monologues but not dialogues : Evidence from a modified map task and linear mixed-effects regression (LMER)
3. Donna Erickson, Yoshiho Shibuya and Atsuo Suemitsu
Rhythm and emphasis in American English : Comparison of native and non-native speakers' productions
4. Ladan Ghazi Saidi and Ana-Inés Ansaldo
Neurobiological basis of language acquisition as a function of word category and proficiency level : Cross-linguistic transfer effects with similar languages
5. Rudolph Sock, Béatrice Vaxelaire, Fabrice Hirsch, Véronique Ferbach-Hecker, Johanna-Pascale Roy, Fayssal Bouarourou, Marion Béchet and Camille Fauth
Presenting the Anticipatory Perception based on Events (APE) hypothesis
6. Fabrice Hirsch, Rudolph Sock, Béatrice Vaxelaire, Camille Fauth, Fayssal Bouarourou, Marie Masson and Melissa Barkat-Defradas
A preliminary study on speech perception and production by blind people
7. Gopal Ananthakrishnan
Imitating adult speech : An infant's motivation
8. Eve Bergeron, Phaedra Royle and Alexandra Marquis
Les schémas d'acquisition du syntagme nominal français chez les enfants hispanophones : Particularités syntaxique et morphosyntaxiques
9. Atef Ben Youssef, Thomas Hueber, Pierre Badin, Gérard Bailly and Frédéric Elisei
Toward a speaker-independent visual articulatory feedback system
10. Julia Monnin, Hélène Loevenbruck, Mary Beckman and Jan Edwards
Vowel context and frequency effects in dorsal and coronal acquisition in Drehu and French
11. Takashi Mitsuya, Ewen MacDonald and Kevin Munhall
Cross categorical temporal feedback in English voicing contrasts
12. Daniel Pape, Pascal Perrier, Susanne Fuchs and Sonia Kandel
Does physical realism of articulatory modeling improve the perception of synthetic speech?
13. Francois-Xavier Brajot, Douglas Shiller and Vincent Gracco
Components of autophonic loudness perception
14. Jan-Willem van Leussen, Paola Escudero and Daniel Williams
The interrelation between the production and perception of Dutch vowels: Real and modeled speakers and listeners

15. Amélie Rochet-Capellan, Lara Richer and David J. Ostry
Generalization of auditory-motor learning in speech
16. Boaz Ben-david, Pascal van Lieshout, Namita Multani and Nicole Durham
RES : Recognition of Emotions in Speech : A new tool to reveal the interaction between affective cues expressed in lexical content and prosody of spoken sentences
17. Boaz Ben-David, Pascal Van Lieshout, Nicole Durham and Namita Multani
LATTE- Linguistic Auditory Threat Test Effect. Can listeners monitor for phonemes and ignore the threat presented by a spoken word?
18. Lara Teixeira Carneiro and Tony Leroux
Description et analyse des contours intonatifs employés par l'enfant sourd implanté cochléaire pré-lingual en acquisition du français québécois (FQ)
19. Conceicao Cunha and Jonathan Harrington
Gesture overlap in Portuguese lexical and postlexical consonant clusters
20. Vikram Ramanarayanan, Adam Lammert, Dani Byrd, Louis Goldstein and Shrikanth Narayanan
Planning and execution in soprano singing and speaking behavior: An acoustic/articulatory study using real-time MRI
21. Lauren de la Parra, Kyle Lovseth, Michael Wagner and Debra Titone
Familiarity modulates the prosodic realization of figuratively- vs. literally-intended idioms during spontaneous speech production
22. Véronique Delvaux, Kathy Huet, Myriam Piccaluga and Bernard Harmegnies
Assessing phonetic talent through speech production measurements
23. Qingyang Yan, Heike Lehnert-LeHouillier and Joyce McDonough
Articulatory-acoustic interactions in the prosodic strengthening of domain-initial vowels in Mandarin Chinese
24. Argyro Katsika
A gestural account of boundary tones : coordination of boundary tones to constriction gestures
25. Argyro Katsika, Stefanie Shattuck-Hufnagel, Christine Mooshammer, Mark Tiede and Louis Goldstein
Effects of prosodic grouping and phonemic content on error patterns in the production of repeated syllable strings
26. Donald Derrick and Bryan Gick
Subphonemic planning across syllable and word boundarie
27. Caterina Petrone, Susanne Fuchs and Jelena Krivokapic
Consequences of working memory differences and phrasal length on pause duration and fundamental frequency
28. Miran Kim and Yu-an Lu
Interference of L1 tonal alignment: Mandarin lexical tone to English pitch accent
29. Jean Schoentgen and Francis Greniez
Monitoring a professional speaker's vocal timbre and vocal frequency under real-life conditions

THURSDAY JUNE 23

9:00 – 10:40 ORAL SESSION 11

SPEECH PRODUCTION

CHAIR: DOUGLAS SHILLER

Recipient of the
Northern Digital Inc.
Excellence Award

- Anne Hermes, Rachid Ridouane, Doris Muecke and Martine Grice
Kinematics of syllable structure in Tashlhiyt Berber : The case of vocalic and consonantal nuclei
- Christine Mooshammer, Mark Tiede, Raj Dhillon, Louis Goldstein, Hosung Nam and Elliot Saltzman
Towards a quantification of Peggy Babcock : The role of syllable position in speech errors

Recipient of the
Northern Digital Inc.
Excellence Award

- Jennifer A. Segawa, Jason A. Tourville and Frank H. Guenther
Neuroimaging evidence for changes in phonological and structural frame representations in subsyllabic speech motor sequence learning
- Mark Tiede, Louis Goldstein, Christine Mooshammer, Hosung Nam, Elliot Saltzman and Stefanie Shattuck-Hufnagel
Head movement is correlated with increased difficulty in an accelerating speech production task
- Marc Sato, Krystyna Grabski, Maëva Garnier, Lionel Granjon, Jean-Luc Schwartz and Noël Nguyen
Plasticity of auditory goals in speech production: behavioral evidence from phonetic convergence and speech imitation

10:40 – 11:00

COFFEE BREAK

11:00 – 12:00 ORAL SESSION 12

COMPENSATION TO PERTURBATIONS

CHAIR: SUSANNE FUCHS

- Pascal van Lieshout
Keeping it stable : Motor adaptation to changes in lower lip characteristics
- Vikram Ramanarayanan, Louis Goldstein, Dani Byrd and Shrikanth Narayanan
An MRI study of articulatory settings of L1 and L2 speakers of American English
- Douglas Shiller, Mélanie Thibeault, Shari Baum and Lucie Ménard
Multiple time scales of speech adaptation to a perturbation of the vocal tract

12:00 – 13:00

BUFFET LUNCH

THURSDAY JUNE 23

13:00 – 15:00 SPECIAL SESSION IN HONOR OF JOSEPH S. PERKELL

CHAIR: LUCIE MÉNARD

PRESENTATIONS BY

- Pascal Perrier
- Mark Tiede
- Melanie Matthies
- Frank Guenther
- Joseph S. Perkell
Five decades of research in speech motor control : What have we learned and where should we go from here?

15:00 – 17:00 CLOSING COCKTAIL

	MONDAY JUNE 20	TUESDAY JUNE 21	WEDNESDAY JUNE 22	THURSDAY JUNE 23
8:00				
8:10				
8:20	Registration	Registration	Registration	Registration
8:30				
8:40				
8:50				
9:00				
9:10	Session 1 Neurolinguistics	Session 5 Co-articulation	Session 8 Speech and language: From acquisition to aging	Session 11 Speech production
9:20				
9:30				
9:40				
9:50				
10:00				
10:10				
10:20				
10:30				
10:40	Coffee break	Coffee break	Coffee break	Coffee break
10:50				
11:00	Session 2 Neurolinguistics	Invited speaker Gary Weismer	Invited speaker Michael Brainard	Session 12 Compensation to perturbations
11:10				
11:20				
11:30				
11:40				
11:50				
12:00	Buffet lunch	Buffet lunch	Buffet lunch	Buffet lunch
12:10				
12:20				
12:30				
12:40				
12:50				
13:00	Session 3 Measurement methodologies	Session 6 Modeling of speech production	Session 9 Speech perception	Special session in honor of Joseph S. Perkell
13:10				
13:20				
13:30				
13:40				
13:50				
14:00				
14:10				
14:20				
14:30				
14:40	Coffee break	Coffee break	Coffee break	
14:50				
15:00	Session 4 Measurement methodologies	Session 7 Modeling of speech production	Session 10 Speech perception	
15:10				
15:20				
15:30				
15:40				
15:50				
16:00	Poster session 1	Poster session 2	Poster session 3	☞ Closing Cocktail ☞
	☞ Welcoming Cocktail ☞			
19:00				