



AAPS NEWSLETTER

**A Publication of the
American Association of
Phonetic Sciences**

SPECIAL TOPICS IN THIS ISSUE

Greetings from the new President
1999 Annual Business Meeting
Paper Titles from 5th Seminar on Speech Production
Treasury Report
2000 Membership List
Abstracts of Student Research
Application for Membership

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American Association of Phonetic Sciences

1999-2000

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mledward@syr.edu

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wsbrown@cpd.ufl.edu

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Editor-In-Chief

Raymond H. Colton, 1996-2000
coltonr@mail.upstate.edu

Letter from the President

After a soggy spring, summer is gradually making its way to Central New York. Graduation is over, and we are well into the summer session, but the pace is slower. It's wonderful to have some time to breathe – as well as think, read, and write. As you can tell, I'm glad it's summer, and I hope that this season finds you in good spirits as well.

I'd like to begin by picking up on some of the themes raised in past newsletters and at the November 1999 meeting in San Francisco, specifically, enhancing the visibility of the American Association of Phonetic Sciences, increasing participation in the organization, and growing our membership, in part by attracting more students.

To those of us who belong to AAPS and who participate on regular basis, AAPS is important, at least important enough for us to invest a small amount of time and energy in it. To numerous others, it is important enough to pay the modest annual dues in order to continue to receive the newsletter. However, as has been pointed out in the past, participation is minimal. If we are to survive as an organization, I believe that we need to make an effort to recruit new members, both student members and professional colleagues, and that we need to take a more active and visible role, for example by sponsoring speakers and continuing to organize special sessions at conferences (see below).

Regarding our efforts to involve students, I would like to underscore Jenny Hoit's suggestion from her 1998 letter that we pay for membership (just \$5.00!) for our students who have an interest in phonetics and that we encourage them to submit abstracts of their research for publication in the newsletter. (I'm not sure what happened to Jenny's suggestion of adding a student editor and a section of student-generated material, but if you know of a student who would be interested, please contact editor Ray Colton, who supported the idea when it was raised.)

While I enthusiastically endorse these ideas, I'd also like to make a suggestion that may be more controversial – to broaden our base to include all branches of phonetics, if we can do this while still maintaining a focus on research and scholarly work, since that is what attracted most of us to this group in the beginning.

The definition of phonetics that I've been walking around with for over 30 years is the traditional one: "Phonetics is the scientific study of speech sounds – how they are produced, perceived and transcribed, as well as their acoustic characteristics." This definition is broad enough to include the varied sub-disciplines, such as articulatory phonetics, perceptual phonetics, acoustic phonetics, and experimental phonetics, as well as specific applications of phonetic principles, as in clinical phonetics.

Clearly one way for this organization to grow is to (re)define ourselves to encompass all areas of phonetics and thus appeal to a wider audience. For example, I suggest that we try to recruit our colleagues who are out there teaching courses in applied phonetics without much enthusiasm (or specific training), perhaps having been assigned those courses by default (e.g., low person on the totem pole). These individuals may not have heard of AAPS at all or may not think of AAPS as being relevant to their interests.

Broadening our base in this way would obviously change the make-up of AAPS, and I suspect that some of you may disagree with me on this, but my purpose is to start a discussion, so I encourage you to respond. If we keep our focus fairly narrow, as it has been historically, then the only way we can grow is by attracting more students with research interests similar to ours. Given the current shortage of doctoral students, this probably wouldn't allow for much growth. I think it is time to at least consider other alternatives, if we truly want to "breath new life" into this organization.

What might motivate individuals like those mentioned above to join AAPS? How could we attract them? Some thoughts on this:

AAPS could function as a resource for inexperienced phonetics instructors, perhaps through our web page or listserve. For example, individual members of AAPS might be willing to serve as "experts" on specific topics, responding to questions submitted by e-mail.

We could offer sessions (perhaps even short courses) on teaching phonetics/speech science at the ASHA convention. Such sessions could greatly benefit those individuals mentioned earlier who may be called upon to teach phonetics without having any specific training. (After all, anyone can teach phonetics. Right?) In the end this would benefit all of us, given that phonetics is essential in dealing with many types of communication disorders, as well as language differences. In my experience, such sessions can be of value to experienced teachers, as well as novices. If AAPS could sponsor such sessions on a regular basis, with the focus differing from year to year, it would enhance the visibility of our organization and would show our colleagues that we have something worthwhile to offer. (Could you see AAPS advocating for phonetics as an area of professional interest? If so, how could we take on this role?)

An alternative to the above suggestion might be to sponsor a speaker each year who would address some issue of general interest to this organization – either theoretical or more applied, and preferably varying among the various sub-disciplines of phonetics. If we were to advertise this session and follow it with a reception/social hour, this AAPS-generated activity should be valuable to those of us who would attend anyway but should also generate interest among our colleagues. (Some of the AAPS meetings that I have enjoyed the most have involved speakers and receptions.)

Please add your own suggestions to this list.

The following is an idea for possible discussion at our November meeting. I would like to hear how other teachers of applied phonetics are addressing the need for better/further training in phonetic transcription for masters students in clinical programs. I try to incorporate as much transcription and use of phonetic concepts as possible into my articulation disorders and clinical phonology courses, mainly through laboratory assignments and projects, but I'm never totally satisfied with the outcome. (I was very envious when I heard Martin Ball speak last year about what can be achieved in a year-long course in phonetics! However, our students in speech-language pathology already have a jam-packed program, and requiring a second semester of phonetics would be a hard sell.) Perhaps a panel of experienced phonetics teachers could address this issue at our next meeting. Let me know what you think.

On a related note, Linda Louko (University of Central Florida) and I are currently putting together an issue on phonetic transcription for Topics in Language Disorders. It will include chapters on transcribing early child speech, and transcribing vowels and suprasegmentals, as well as Asian-influenced English, Spanish-influenced English, and African-American English. This project grew out of our observation that speech-language pathologists may lack the knowledge and expertise they need to deal with some of the populations they are currently expected to serve, such as very young children and speakers of different languages and dialects. I would like to hear about other attempts to address this concern.

Many thanks to Alice Dyson, who has arranged for a special AAPS-sponsored session to be held at the 2000 ASHA Convention in Washington, DC! It will be a 90-minute session devoted to student scientific papers. The plan is for students to present for about 10-12 minutes and then respond to questions from the panel and the audience. The topics range from VOT to prosody, intelligibility, and speech naturalness. (We could easily accommodate another paper in this session; if you have a student who would be interested in submitting, please contact me right away. Our final decisions should be made by June 16.) Instead of being held during the AAPS meeting, as was the case last year, this session will actually be on the ASHA program. This should be very helpful in "getting our name out there." Please look for this session in the program and plan to attend if you possibly can to support these students and further the cause.

I'll be around Syracuse all summer, except for July 27-August 15, so please feel free to e-mail, write, or call with comments about any of the issues raised here or with additional suggestions. I look forward to hearing from you.

Best regards,

Mary Louise Edwards
Communication Sciences and Disorders Syracuse University
805 S. Crouse Avenue, Syracuse, NY 13244-2280
(315) 443-9645 (phone) (315) 443-1113 (fax)
mledward@syr.edu

AAPS ANNUAL BUSINESS MEETING

The association held its annual business meeting in San Francisco, California, on Saturday, November 20, 1999 in conjunction with the annual convention of the American Speech-Language-Hearing Association. The meeting, which immediately followed the Student Research in the Phonetic Sciences Invited Session, was called to order at approximately 5:45 pm by outgoing president, Jenny Hoit. Approximately 15 members were in attendance. The executive secretary's report was read by Alice Dyson who was serving as minute taker (in the absence of W. S. Brown) and is as follows:

Executive Secretary's Report: I am sorry that I could not be with you again this year, but I know that you are all in good hands. I am sure by now many of you have read President Hoit's farewell message in the recent AAPS Newsletter, and her views were probably reiterated in her opening remarks this afternoon. Needless to say, we are very disappointed in the association's inability to attract new student members. Moreover, the membership's participation in the AAPS's activities is dismal, at best. Our main source of disseminating information concerning the phonetic sciences, the AAPS Newsletter, may as well not exist given the amount of interest the present membership has in contributing to it. And, the past several AAPS business meetings were very poorly attended. I will be anxious to get the report back as to how many members attended the student forum this afternoon and this business meeting. I hope to write an editorial in the Spring issue of the Newsletter to present my views on the future of AAPS. My feeling is that AAPS's future will, ultimately, reside with the present members' interest (vote of confidence) to continue our activities, and it will take a RENEWED dedication to the phonetic sciences in America and to its association. This "rebirth," so to speak, will also have to come from new faces, with new energies to pursue a course of action that will redefine the association's reason to exist. If such a core of new faces" is not out there, then the future holds no promise for this association. For now, my very best wishes to all of you present, and my congratulations to all the newly elected officers of the association. Regards, WS Brown, Jr., Executive Secretary.

Following the reading of the Executive Secretary's report a discussion ensued in which the following suggestions were offered by which the association could instill a clearer purpose and goals to its members:

1. Continue to stress student participation and membership. Suggestions for accomplishing this included faculty paying the student membership dues and continuing the ASHA program presentations by students.
2. Develop learning modules in various areas of phonetic sciences.
3. Develop WEB pages to include: student papers, abstracts submitted by members, learning modules suggested in #2 above, sample syllabi used by faculty in phonetic science classes, needs of the profession, and a link with the ASHA scientific affairs committee.

The first and third suggestions received whole-hearted support from the members present and further discussion ensued. It was suggested that a sponsor for the student papers could be sought in order to offer an award for the best paper or papers. Those papers selected and presented could be reprinted in the newsletter and/or WEB page. Alice Dyson volunteered to contact the ASHA program committee to see if a special session sponsored by AAPS and consisting of student papers could be placed on the program for the next convention in Washington, DC.

The AAPS Nominating Committee (Richard McQuire, Chair, Ruth Huntley-Bahr and Carol Ferrand) reported that the following officers were elected to office: Mary Louise Edwards, President Elect 1999-2001; James Mashie, Vice President Elect, 1999-2001; Lorraine Ramig, Counselor Elect, 1999-2002; Nancy Pearl Solomon, Nominating Committee Elect, 1999-2002).

A final discussion centered on the idea of broadening the name of the association to attract more members. No resolution on this matter was achieved.

Outgoing president, Jenny Hoit, introduced the incoming president, Mary Louise Edwards, who arrived late due to commitments in another ASHA session.

As no other business emerged from the floor, President Edwards adjourned the meeting.

Respectfully submitted by Alice Dyson

Call for Materials

All AAPS members are invited and urged to submit materials for the newsletter. Possible areas for material submission include Abstracts/Research Notes, Association news, personal news etc. We would like very much to publish abstracts of manuscripts that are in press or appear in proceedings of national or international meetings as many of these fail to find their way into print. Abstracts of theses and dissertations are also sought. Bibliographies of specific topics is encouraged.

Other topics include a listing of new books in phonetics, notices of upcoming meetings, conventions and conferences. Please provide details about dates, times, places etc. Letters to the Editor are encouraged about any issue in phonetic sciences or about the organization. Please notify me about your website. I would like to feature new websites in the newsletter.

Materials should be submitted to the editor either by regular mail or by e-mail (preferred). Send to

Raymond H. Colton, Editor AAPS Newsletter
Rm 156 WK 766 Irving Ave.
Syracuse, NY 13210
E-mail: coltonr@mail.upstate.edu

Paper Titles given at the 5th Seminar on Speech Production

May 1st to 4th, 2000

Kloster Seeon, Bavaria, Germany

Abstracts can be viewed at <http://www.phonetik.uni-muenchen.de/~sps5/abstracts/>

Paper No. 01: Adrian P. Simpson,
GENDER-SPECIFIC DIFFERENCES IN THE ARTICULATORY AND ACOUSTIC REALIZATION OF
INTERWORD VOWEL SEQUENCES IN AMERICAN ENGLISH

Paper No. 02: Akinori Fujino, Tokihiko Kaburagi, Masaaki Honda, Emi Zuiki Murano, Seiji Niimi,
RELATIVE TIMING BETWEEN ARTICULATORY AND GLOTTAL MOTIONS IN VOICELESS
CONSONANT PRODUCTION

Paper No. 03: Alan A. Wrench, William J. Hardcastle,
A MULTICHANNEL ARTICULATORY SPEECH DATABASE AND ITS APPLICATION FOR
AUTOMATIC SPEECH RECOGNITION

Paper No. 04: Anders Löfqvist,
CONTROL OF CLOSURE DURATION IN STOP CONSONANTS

Paper No. 05: Andreas Zierdt, Philip Hoole, Masaaki Honda, Tokihiko Kaburagi, Hans G. Tillmann,
EXTRACTING TONGUES FROM MOVING HEADS

Paper No. 07: A. Vilain, C. Abry, P. Badin,
CO-PRODUCTION STRATEGIES IN FRENCH VCVS: CONFRONTING ÖHMAN'S MODEL WITH
ADULT AND DEVELOPMENTAL ARTICULATORY DATA

Paper No. 08: António Teixeira, Francisco Vaz, José Carlos Príncipe,
NASAL VOWELS FOLLOWING A NASAL CONSONANT

Paper No. 10: Bernd J. Kröger, Ralf Winkler, Christine Mooshammer, Bernd
Pompino-Marschall,
ESTIMATION OF VOCAL TRACT AREA FUNCTION FROM MAGNETIC RESONANCE IMAGING:
PRELIMINARY RESULTS

Paper No. 11: Brad H. Story, Ingo R. Titze,
AN INVESTIGATION OF VOICE QUALITY BASED ON MODIFICATIONS OF THE NEUTRAL
VOCAL TRACT SHAPE

Paper No. 12: Bryan Gick, A. Min Kang, D. H. Whalen,
MRI AND X-RAY EVIDENCE FOR COMMONALITY IN THE DORSAL ARTICULATIONS OF
ENGLISH VOWELS AND LIQUIDS

Paper No. 13: Cécile Fougeron, Yohann Meynadier, Didier Demolin,
62 VS. 96 ELECTRODES: A COMPARATIVE ANALYSIS OF READING AND KAY ELEMETRICS
EPG PSEUDO-PALATES.

Paper No. 14: Philip J.B. Jackson, Christine H. Shadle,

AERO-ACOUSTIC MODELLING OF VOICED AND UNVOICED FRICATIVES BASED ON MRI DATA

Paper No. 15: Christian Abry, Rafaël Laboissière, Hélène Loevenbruck, Marie-Agnès Cathiard, Jean-Luc Schwartz,
GLIDE PRODUCTION AND CONTROL IN THE TWO-COMPONENT VOWEL MODEL

Paper No. 16: Christian Geng, Christine Mooshammer,
MODELING THE GERMAN STRESS DISTINCTION

Paper No. 17: Christian Kroos, Takaaki Kuratate, Eric Vatikiotis Bateson,
LISTEN TO THE FACE - MEASURING THE FACE KINEMATICS OF SPEECH FROM VIDEO SEQUENCES

Paper No. 18: Daniel E. Callan, Akiko M. Callan, Christian Kroos, Eric Vatikiotis-Bateson,
NEURAL PROCESSES UNDERLYING PERCEPTION OF AUDIO-VISUAL SPEECH PRODUCTION

Paper No. 19: Daniel Recasens, Maria Dolors Pallarès,
UNDERLYING VOICING AND SYLLABICITY IN MAJORCAN CATALAN WORD FINAL STOP CLUSTERS

Paper No. 20: David J. Ostry, Douglas M. Shiller, Paul L. Gribble,
THE COMPLEXITY OF CONTROL OF OROFACIAL MOTION

Paper No. 21: Didier Demolin, Thierry Metens, Alain Soquet,
REAL TIME MRI AND ARTICULATORY COORDINATIONS IN VOWELS

Paper No. 22: Douglas M. Shiller, Rafaël Laboissière, Vittorio Sanguineti, David J. Ostry,
JAW MECHANICAL BEHAVIOUR DURING SPEECH PRODUCTION

Paper No. 23: Eiichi Yoshikawa, Nobuhiro Miki,
A NEW MODEL OF LUNG AND TRACHEA FOR SPEECH SYNTHESIZER OF VOCAL-TRACT ANALOG

Paper No. 24: Emi Zuiki Murano, Hiroshi Imagawa, Seiji Niimi, Masanobu Kumada, Takeo Kobayashi, Shigeru Kiritani,
VOCAL FOLD VIBRATION PATTERNS IN SPASMODIC DYSPHONIA: OBSERVATION FROM A HIGH-SPEED DIGITAL IMAGING SYSTEM

Paper No. 25: Fariborz Alipour, Ronald C. Scherer,
PRESSURE-FLOW RELATIONSHIP IN A MECHANICAL LARYNX MODEL

Paper No. 27: Gordon Ramsay,
MODAL ANALYSIS OF MUSCLE DYNAMICS: A SYSTEMATIC APPROACH TO DIMENSIONALITY REDUCTION FOR BIOMECHANICAL MODELS OF SPEECH

Paper No. 28: Gordon Ramsay, Rafaël Laboissière,
STATISTICAL MODELLING OF SPEECH MOTOR CONTROL: A STOCHASTIC MYOCYBERNETIC MODEL OF THE JAW, HYOID, AND LARYNX

Paper No. 29: Hanne Gram Simonsen, Inger Moen, Steve Cowen,
RETROFLEX CONSONANTS IN NORWEGIAN: ARE THEY REALLY? EVIDENCE FROM EMA AND EPG

Paper No. 31: Takayuki Ito, Hiroaki Gomi, Masaaki Honda,
TASK DEPENDENT JAW-LIP COORDINATION EXAMINED BY JAW PERTURBATION DURING
BILABIAL-CONSONANT UTTERANCES

Paper No. 32: Hiroki Matsuzaki, Kunitoshi Motoki,
FEM ANALYSIS OF 3-D VOCAL TRACT MODEL WITH ASYMMETRICAL SHAPE

Paper No. 33: Hiroya Fujisaki, Sumio Ohno, Shuichi Narusawa,
PHYSIOLOGICAL MECHANISMS AND BIOMECHANICAL MODELING OF FUNDAMENTAL
FREQUENCY CONTROL FOR THE COMMON JAPANESE AND THE STANDARD CHINESE

Paper No. 34: Klaus Mathiak, U. Klose, Hermann Ackermann, Ingo Hertrich, W.-E. Kincses,
Wolfgang Grodd,
STROBOSCOPIC ARTICULOGRAPHY USING FAST MAGNETIC RESONANCE IMAGING

Paper No. 35: Ingo R. Titze,
BIOMECHANICAL MODELING OF VOCAL FOLD POSTURING

Paper No. 36: Jean Schoentgen,
GLOTTAL VIBRATIONS AND VOCAL TRACT FILTER FUNCTION CONVERT JITTER INTO
SHIMMER

Paper No. 37: Jean-Luc Schwartz, Louis-Jean Boë,
PREDICTING PALATAL CONTACTS FROM JAW AND TONGUE COMMANDS: A NEW SENSORY
MODEL AND ITS POTENTIAL USE IN SPEECH CONTROL

Paper No. 38: Jianwu Dang, Kiyoshi Honda,
ESTIMATION OF VOCAL TRACT SHAPE FROM SPEECH SOUNDS VIA A PHYSIOLOGICAL
ARTICULATORY MODEL

Paper No. 39: Joaquín Romero, Daniel Recasens,
AMERICAN ENGLISH FLAPPING AND TONGUE TIP BLENDING

Paper No. 40: Joseph S. Perkell, Majid Zandipour, Jennell Vick, Melanie L. Matthies, Harlan Lane,
Frank H. Guenther, John Gould,
RAPID CHANGES IN SPEECH PRODUCTION PARAMETERS IN RESPONSE TO A CHANGE IN
HEARING

Paper No. 41: Jörg Mayer, Grzegorz Dogil, Hermann Ackermann, Michael Erb, Axel Riecker, Dirk
Wildgruber, Wolfgang Grodd,
PROSODY IN SPEECH PRODUCTION: A PARADIGM FOR FUNCTIONAL IMAGING AND FIRST
RESULTS

Paper No. 42: John Hogden, Patrick Valdez,
BRIDGING THE GAP BETWEEN SPEECH PRODUCTION AND SPEECH RECOGNITION

Paper No. 43: John F. Houde, Srikantan S. Nagarajan, Michael M Merzenich,
MODULATION OF AUDITORY CORTEX DURING SPEECH PRODUCTION: AN MEG STUDY

Paper No. 44: John R. Westbury, Mary J. Lindstrom,
TWO-DIMENSIONAL SHAPE FUNCTIONS APPLIED TO SPEECH KINEMATIC DATA

Paper No. 45: Jonathan Rodgers,
THE PHONATORY CORRELATES OF JUNCTURE IN GERMAN

Paper No. 46: J.A. Jones, K.G. Munhall,
PERCEPTUAL CONTRIBUTIONS TO FUNDAMENTAL FREQUENCY PRODUCTION

Paper No. 47: Jorge C. Lucero,
MEASURES OF VARIABILITY OF SPEECH MOVEMENT SIGNAL USING FUNCTIONAL DATA
ANALYSIS

Paper No. 48: Karin Deger, Wolfram Ziegler,
ASPECTS OF SPEECH MOTOR PROGRAMMING IN PATIENTS WITH APRAXIA OF SPEECH

Paper No. 49: Kazufumi Nishikawa, Kouichirou Asama, Kouki Hayashi, Hideaki Takanobu, Atsuo
Takanishi,
DEVELOPMENT OF A TALKING ROBOT

Paper No. 50: Khalil Iskarous,
THE ARTICULATORY MEANING OF DYNAMIC FORMANT PATTERNS

Paper No. 51: Klaus Kohler,
LINGUISTIC AND PARALINGUISTIC FUNCTIONS OF NON-MODAL VOICE IN CONNECTED
SPEECH

Paper No. 52: Kohichi Ogata, Yorinobu Sonoda,
EVALUATION OF ARTICULATORY DYNAMICS AND TIMING BASED ON CASCADED FIRST-
ORDER SYSTEMS

Paper No. 53: Kunitoshi Motoki, Pierre Badin, Xavier Pelorson, Hiroki Matsuzaki,
A MODAL PARAMETRIC METHOD FOR COMPUTING ACOUSTIC CHARACTERISTICS OF
THREE-DIMENSIONAL VOCAL TRACT MODELS

Paper No. 54: Liam Fitzpatrick, Ailbhe Ni' Chasaide,
INFERRING TONGUE ARTICULATION FROM SIMULTANEOUS EMA & EPG:
COMPLEMENTARY AND CONFLICTING DATA

Paper No. 55: Lian Apostol, Pascal Perrier, Monica Baciu, Christoph Segebarth, Pierre Badin,
USING THE FORMANT/CAVITY AFFILIATION TO STUDY THE INTER-SPEAKER VARIABILITY:
ASSESSMENT FROM MRI DATA

Paper No. 56: Lise Crevier-Buchman, Shinji Maeda, Daniel Brasnu, Philippe Halimi, Jacqueline
Vaissiere,
PHONETIC CONSEQUENCES OF SUPRACRICOID PARTIAL LARYNGECTOMY: PHONATION-
ARTICULATION TRADEOFF: ARTICULATORY COMPENSATION

Paper No. 57: Lucy Ellis, William J. Hardcastle,
ASSIMILATION STRATEGIES IN THE PRODUCTION OF ALVEOLAR TO VELAR SEQUENCES:
EPG AND EMA DATA

Paper No. 58: Luis M. T. Jesus, Christine H. Shadle,
PARAMETERIZING SPECTRAL CHARACTERISTICS OF EUROPEAN PORTUGUESE
FRICATIVES

Paper No. 59: Maria-Josep Solé,
ASSIMILATORY MODELS AND AERODYNAMIC FACTORS

Paper No. 60: Mark K. Tiede, Shinobu Masaki, Eric Vatikiotis-Bateson,
CONTRASTS IN SPEECH ARTICULATION OBSERVED IN SITTING AND SUPINE CONDITIONS

Paper No. 61: Maureen Stone, Danielle Dick, Andrew S. Douglas, Edward P. Davis, Cengizhan Ozturk,
MODELLING THE INTERNAL TONGUE USING PRINCIPAL STRAINS

Paper No. 62: Michael H. Krane, Daniel J. Sinder, James L. Flanagan,
AEROACOUSTIC MODELING OF SPEECH SOUND PRODUCTION

Paper No. 64: Olov Engwall, Pierre Badin,
AN MRI STUDY OF SWEDISH FRICATIVES: COARTICULATORY EFFECTS

Paper No. 65: Pascal Perrier, Yohan Payan, Joseph Perkell, Majid Zandipour, Xavier Pelorson,
Vincent Coisy, Melanie Matthies,
AN ATTEMPT TO SIMULATE FLUID-WALLS INTERACTIONS DURING VELAR STOPS

Paper No. 66: Alain Arnal, Pierre Badin, Gilbert Brock, Pierre-Yves Connan, Evelyne Florig, Noël Perez, Pascal Perrier, Pela Simon, Rudolph Sock, Laurent Varin, Béatrice Vaxelaire, Jean-Pierre Zerling,
AN X-RAY DATABASE FOR FRENCH

Paper No. 67: Pascal van Lieshout, Christel Rutjens, Paul Spauwen,
THE DYNAMICS OF INTER-LIP COUPLING IN SPEAKERS WITH AND WITHOUT A REPAIRED UNILATERAL CLEFT-LIP HISTORY

Paper No. 68: Paula West,
LONG-DISTANCE COARTICULATORY EFFECTS OF BRITISH ENGLISH // AND /r/: AN EMA, EPG AND ACOUSTIC STUDY

Paper No. 69: Pao-chuan Torng, Peter J. Alfonso, Pascal van Lieshout,
LEXICAL TONE SPECIFICATION ON VOCAL TRACT SHAPE IN MANDARIN CHINESE VOWEL PRODUCTION

Paper No. 70: Philip Hoole, Axel Wismüller, Gerda Leinsinger, Christian Kroos, Anja Geumann, Michiko Inoue ,
ANALYSIS OF TONGUE CONFIGURATION IN MULTI-SPEAKER, MULTI-VOLUME MRI DATA

Paper No. 71: Pierre Badin, Pascal Borel, Gérard Bailly, Lionel Revéret, Monica Baciù, Christoph Segebarth,
TOWARDS AN AUDIOVISUAL VIRTUAL TALKING HEAD: 3D ARTICULATORY MODELING OF TONGUE, LIPS AND FACE BASED ON MRI AND VIDEO IMAGES

Paper No. 72: Rafaël Laboissière, Louis-Jean Boë,
A NEW HEURISTICS FOR EXPLORING THE MAXIMAL ACOUSTIC SPACE FOR VOWELS

Paper No. 73: Reiner Wilhelms-Tricarico,
DEVELOPMENT OF A TONGUE AND MOUTH FLOOR MODEL FOR NORMALIZATION AND BIOMECHANICAL MODELLING

Paper No. 74: Richard S. McGowan,
VOWEL KINEMATICS IN VARIOUS CONSONANT, STRESS, AND PHRASE POSITION CONTEXTS

Paper No. 75: Robert E. Beaudoin, Richard S. McGowan,
PRINCIPAL COMPONENTS ANALYSIS OF X-RAY MICROBEAM DATA FOR ARTICULATORY
RECOVERY

Paper No. 77: Sacha Krstulovic,
LPC MODELING WITH SPEECH PRODUCTION CONSTRAINTS

Paper No. 78: Samir El-Masri, Nobuhiro Miki,
A NEW EFFICIENT FEM AND ANALYSIS OF RELATION BETWEEN IMPEDANCE FUNCTION
AND GEOMETRICAL PARAMETERS OF THE VOCAL TRACT

Paper No. 79: Sebastian Heid, Sarah Hawkins,
AN ACOUSTICAL STUDY OF LONG DOMAIN /r/ AND /l/ COARTICULATION

Paper No. 80: Silke Steininger, Jochen Müsseler,
MOTOR CONTROL: THE ROLE OF GOALS AND THE STRUCTURE OF 'MOTOR'
REPRESENTATIONS

Paper No. 81: Sorin Dusan, Li Deng,
ACOUSTIC-TO-ARTICULATORY INVERSION USING DYNAMICAL AND PHONOLOGICAL
CONSTRAINTS

Paper No. 82: Steven Greenberg, Eric Fosler-Lussier,
THE UNINVITED GUEST: INFORMATION'S ROLE IN GUIDING THE PRODUCTION OF
SPONTANEOUS SPEECH

Paper No. 83: Takesi Okadome, Shin Suzuki, Masaaki Honda,
RECOVERY OF ARTICULATORY MOVEMENTS FROM ACOUSTICS WITH PHONEMIC
INFORMATION

Paper No. 85: Tim Bressmann, Robert Sader,
COMMUNICATION BREAKDOWN BROKEN DOWN: ASPECTS OF CLEFT PALATE SPEECH

Paper No. 87: Christine Mooshammer, Susanne Fuchs,
STRESS DISTINCTION IN GERMAN: MODELING KINEMATIC PARAMETERS OF TONGUE TIP
GESTURES

Paper No. 88: Tokihiko Kaburagi, Masaaki Honda,
DYNAMIC ARTICULATORY MODEL BASED ON MULTIDIMENSIONAL INVARIANT-FEATURE
TASK REPRESENTATION

Paper No. 89: Rosemary A. Varley, Sandra P. Whiteside, M. Donovan,
A DUAL-ROUTE MODEL OF SPEECH CONTROL: THE NEED FOR CONVERGENT EVIDENCE
FROM MOTOR SPEECH DISORDERS

Paper No. 90: A.S.Leonov, V.N.Sorokin,
INVERSION FROM ARTICULATORY MOVEMENTS TO CONTROL FORCES

Paper No. 91: Hani Yehia, Takaaki Kuratate, Eric Vatikiotis-Bateson,
FACIAL ANIMATION AND HEAD MOTION DRIVEN BY SPEECH ACOUSTICS

Paper No. 92: Edda Farnetani,
HYPER- TO HYPO-ARTICULATED VOWELS: ARTICULATORY- ACOUSTIC RELATIONS

Paper No. 93: Louis-Jean Boë, Lucie Ménard, Shinji Maeda,
ADAPTATION OF CONTROL STRATEGIES DURING THE VOCAL TRACT GROWTH INFERRED
FROM SIMULATION STUDIES WITH AN ARTICULATORY MODEL

Paper No. 95: Masaaki Honda, Tokihiko Kaburagi,
SPEECH COMPENSATION TO DYNAMICAL STRUCTURAL PERTURBATION OF THE PALATE
SHAPE

Paper No. e1: Jean-Louis Heim,
MODALITIES IN THE GROWTH OF NEANDERTAL INFANTS: IMPLICATION TO THE
RECONSTRUCTION OF THE VOCAL TRACT OF NEANDERTAL MEN

Paper No. e2: Louis-Jean Boë, Jean-Louis Heim, Kiyoshi Honda, Shinji Maeda,
NEANDERTAL MAN WAS NOT MORPHOLOGICALLY HANDICAPPED FOR SPEECH

Paper No. e3: Michael J. Owren,
SPECTRAL CONTENT AND FUNCTION OF NONHUMAN PRIMATE VOCALIZATIONS IS SHAPED
BY BOTH VOCAL-FOLD VIBRATION AND SUPRA-LARYNGEAL FILTERING CHARACTERISTICS

Paper No. e4: Horonori Takemoto,
MORPHOLOGICAL ANALYSIS AND 3D MODELING OF THE TONGUE MUSCULATURE IN THE
HUMAN AND CHIMPANZEE

Paper No. e5: Didier Demolin,
THE EVOLUTION AND CONTROL OF TONGUE MOVEMENT IN SPEECH

Paper No. r1: Gerald Gottlieb,
FROM THOUGHT TO EFFECT: A DISCUSSION OF MOTOR PROGRAMS AND OTHER
UNKNOWABLES

Paper No. r2: Christopher M. Harris, Daniel M. Wolpert,
SIGNAL-DEPENDENT NOISE AND OPTIMAL MOTOR CONTROL: A UNIFYING PRINCIPLE OF
HUMAN MOVEMENT

Paper No. r3: Onno Crasborn,
PHONOLOGICAL AND PHONETIC FEATURE OF SIGN LANGUAGES

AAPS Website has moved

The address of the AAPS web site has been changed. Please note the change below. Jim Mahshie is looking for material for the website and hopefully we will be working on updating and finalizing the site. You may want to drop Jim with any suggestions you might have.

Address: <http://asip.gallaudet.edu/aaps>

<h2 style="margin: 0;">Treasury Report</h2> <h3 style="margin: 0;">January 1, 1999 – December 31, 1999</h3>	
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Assets		
Cash on Hand, December 31, 1998		\$1,461.31
1998 Membership Dues	7 members @ \$15.00	\$105.00
1999 Membership Dues	20 members @ \$15.00 2 Students @ \$5.00	\$460.00
2000 Dues	7 members @ \$15.00 1 Student @ \$5.00	\$120.00
2001 Dues	1 member @ \$15.00	\$15.00
Total Assets		\$2,151.31

Liabilities	
Check # 357 US Postmaster (stamps, general mailing)	\$66.50
Check # 358 Department of State (1999 Annual Corp. Report)	\$61.25
Check # 359 University of Florida Foundation (services & expenses, 1998)	\$950.00
Check # 360 US Postmaster (stamps, general mailing)	\$33.00
Check # 361 Alice Dyson (expenses, 1999 business meeting)	\$100.00
Check # 362 US Postmaster (2000 PO Box rental)	\$64.00
1999 Bank Service Charges	\$57.85
Total Liabilities	\$1332.60
Balance, December 31, 1999	\$818.71

AAPS Membership List 1999

Arthur S. Abramson
Dept. of Ling., U-145
University of Connecticut
Storrs, CT 06268-1145
abramson@uconnvm.uconn.edu

Carl Asp
532 S. Stadium Hall
University of Tennessee
South Stadium Hall
Knoxville, TN 37996-0740
Asp@ath.utk.edu

Walter F. Atwood
3105 Gumwood Drive
Hyattsville, MD 20783
Atwood@juno.com

Ruth A. Bahr
Dept of Communication Sciences &
Disorders
4202 E. Fowler Ave. Beh 255
University of South Florida
Tampa, FL 33620-8150
Rbahr@luna.cas.ust.edu

Steve Barlow
Speech-Orofacial Physiology and
Biomechanics Laboratory
Speech and Hearing Sciences and Program
in Neural Science
Bloomington, IN

Shari R. Baum
1266 Pine Avenue West
McGill University
Montreal Quebec H3G 1A8
CANADA
insr@musicb.mcgill.ca

Jackie Bauman-Waengler
Communication Sciences & Disorders
115 Davis Hall
Clarion University
Clarion, PA 16214

Diane Bless
University of Wisconsin
1500 Highland
Madison, WI 53705

Arthur Bronstein
University of California
Dept of Linguistics
Berkeley, CA 94720

William S. Brown, Jr.
IASCP - 63 Dauer Hall
P.O. Box 117425
University of Florida
Gainesville, FL 32611
wsbrown@cpd.ufl.edu

Eugene H. Buder
Memphis Speech and Hearing Center
807 Jefferson Ave.
University of Memphis
Memphis, TN 38105

Timothy Bunnell
A. 1. duPont Institute
Applied Sci. & Eng. Lab
1600 Rockland Rd
Wilmington, DE 19899
bunnell@asel.udel.edu

Shari Campbell
Dept Communication Sciences & Disorders
514 Aderhold Hall

University of Georgia
Athens, GA 30602-7152

George Cannon
Communication Sciences Department
University of Vermont
Burlington, VT 05405-0010

Francis Cartier
1029 Forest Ave.
Pacific Grove, CA 93950-4814

Roger Colcord
Dept. of Comm. Disorders.
Bowling Green State Univ.
Bowling Green, OH 43403-0233
rcolcor@bgnet.bgsu.edu

Raymond H. Colton
SUNY Upstate Medical University
Rm 156 766 Irving Ave
Syracuse, NY 13210
coltonr@mail.upstate.edu

Donald Cooper
606 Will.-Brice Nursing Building
Dept of Speech Language
Pathology/Audiology
School of Public Health
University of South Carolina
Columbia, SC 29208
dscoope@vm.sc.edu

John K. Darby
4825 Mayfield Dr.
Fremont, CA 94536

R. Prakash Dixit
Dept. of Comm. Disorders
Louisiana State University
Baton Rouge, LA 70803-2606

Harold T. Edwards

WSV Box 75
Wichita, KS 67260-0075
edwards@wsuhub.uc.twsu.edu

Mary Louise Edwards
Syracuse University
805 South Crouse Avenue
Syracuse, NY 13244-2280
mledwards@sued.syr.edu

Floyd W. Emanuel
Keys Speech and Hearing Center
P.O. Box 26901
Oklahoma City, OK 73190

James E. Flege
Department of Biocommunication
University of Alabama at Birmingham
VH 503
Birmingham, AL 35294-0019
FLEGEJE@BIOCOM1.UAB.EDU

John W. Folkins
111 Jessup Hall
University of Iowa - 119SHC
Iowa City, IA 52242
jfolkins@provost-po.provost.uiowa.edu

Marylou P. Gelfer
4215 North Olsen Ave.
Shorewood, WI 53211
gelfer@csd.uwm.edu

Robert M. Hammond
Dept of Foreign Languages and Literature
1 359 Stanley Hall
Purdue University
Lafayette, IN 47907
hammond@um.cc.purdue.edu

Douglas Hicks
Otol/Comm Disorders (A71)
The Cleveland Clinic Foundation

9500 Euclid Ave.
Cleveland, OH 44195-5034

James Hillenbrand
4127 East Z Ave.
Vicksburg, MI 49097
james.hillenbrand@wmich.edu

Megan M. Hodge
Rm 2-70 Corbett Hall
University of Alberta
Edmonton, Alberta Canada T6G 2G4

Jeannette D. Hoit
Dept of Speech/Hearing Sciences
University of Arizona
Tucson, AZ 85721

Harry Hollien
IASCP-50 Dauer Hall
University of Florida
Gainesville, FL 32611

Patricia Hollien
IASCP- 50 Dauer Hall
University of Florida
Gainesville, FL 32611

Norman J. Lass
Speech Pathology & Audiology
PO Box 6122
University of West Virginia
Morgantown, WV 26506
nlass@wvu.edu

Ilse Lehiste
Linguistics Dept.
Ohio State University
1712 Neil Ave.
Columbus, OH 43210
ilsele@ling.ohio-state.edu

Laurence B. Leonard

Audiol. & Spch Science
Heavilon Hall
Purdue University
W. Lafayette, IN 47906

Raymond Linville
Dept. of Communication Disorders
Box 2073
Texas Tech University
Lubbock, TX 79409-2073
pdrl@ttacs.ttu.edu

Linda J. Louko
Dept of Communicative Disorders
12424 Research Parkway
Suite 200
University of Central Florida
Orlando, FL

James Mahshie
Gallaudet University
800 Florida Ave NE
Washington, DC 20002
jjmahshie@gallua.gallaudet.edu

Sharon Manuel
51 Montrose St.
Somerville, MA 02143
manuel@speech.mit.edu

Lynda Marvin
Speech and Hearing Department
C.W. Post Campus Brookville
Long Island, NY 11548

Richard A. McGuire
Dept. of Comm. Dis 234 CAC
Univ. of Northern Iowa
Cedar Falls, IA 50614
mcguire@uni.edu

Richard V. Miller
Voice Department

Oberlin Conservatory
Oberlin, OH 44074

James A.L. Miller, Jr.
2810-K Carriage Dr.
Winston-Salem NC 27106-5328

Christopher A. Moore
1417 NE 42nd St.
Seattle, WA 98105-6246
camoore@u.washington.edu

Richard J. Morris
Florida State University
Speech & Hearing Clinic
107 RRC
Tallahassee, FL 32306-2007

Thomas Murry
Univ. of Pittsburgh
Eye and Ear Institute
Suite 400
200 Lothrop St.
Pittsburgh, PA 15213
murryt@a1.isd.upmc.edu

Lauren K. Nelson
1413 Starview
Cedar Falls, IA 50613
nelson@uni.edi

Eva E. Nwokah
2629 Courtside Lane
Piano, TX 75093
enwokah@aol.com

Audrey O'Brien
Box 25, Tullamore Post Office
Tullamore, Co. Offaly
IRELAND

Ralph N. Ohde
B. Willkerson Hearing and Speech Center

Vanderbilt University
114 19th Ave South
Nashville, TN 37212

Robert F. Orlikoff
Memorial Sloan-Kettering Cancer Center
1275 York Ave.
New York, NY 10021
orlikoff@mskcc.org

Harold J. Overton
Language and Visual Arts
Charleston Southern University
P.O. Box 118087
Charleston, SC 29423-8087
hoverton@csuniv.edu

James M. Pickett
Windy Hill Lab
P. O. Box 198
Surry, ME 04684

Robert A. Prosek
Dept. of Comm. Diso.
3F Moore Blvd
Penn State University
University Park PA 16802
rap6@psu.edu

Lorraine A. Ramig
Dept. of Communication Disorders
&/Speech Science
Box 409
University of Colorado
Boulder, CO 80309

Deborah M. Rekart
Speech Applications Engineer
Room 36 517 Texas Instruments
8505 Forest Ln, MS 807 18
Dallas, TX 75243

Howard Rothman
IASCP 63 Dauer Hall
University of Florida
Gainesville, FL 32611
hrothman@cpd.ufl.edu

Ronald C. Scherer
Dept Communication Disorders
Bowling Green University
Bowling Green, OH 43403
ronalds@bgnet.bgsu.edu

Anna Schmidt
School of Speech Pathology & Audiology
P.O. Box 5190
Kent State University
Kent, OH 44240
aschmidt@kent.edu

Anthony Seikel
School of Speech Pathology & Audiology
Idaho State University
Pocatello, ID 83209-8116

Ralph Shelton
PO Box 762
Arivaca, AZ 85601
peaches@ccit.arizona.edu

Nancy Pearl Solomon
Dept of Communication Disorders
115 Shevlin Hall 164 Pillsbury S.E.
University of Minnesota
Minneapolis, MN 55455
solom006@gold.tc.umn.edu

Charles Speaks
Dept of Communication Disorders
115 Shevlin Hall 164 Pillsbury S.E.
University of Minnesota
Minneapolis, MN 55455
speak001@maroon.tc.umn.edu

Kenneth N. Stevens
Res. Lab. of Elec. Room 36-517
Massachusetts Inst. of Tech.
Cambridge, MA 02139
stevens@speech.mit.edu

Patricia Sweeting
42 Belden Avenue
Dobbs Ferry, NY 10522

Julie Walton
Dept. of Comm. Disorders
University of Mississippi
University, MS 38677

Donald W. Warren
University of N. Carolina
CB#7450 School of Dentistry
Chapel Hill, NC 27514
don-warren@dentistry.unc.edu

Rudolf Weiss
Dept of Foreign Languages
Western Washington University
Bellingham, WA 98225

Kim Wilcox
University of Kansas
Speech-Language-Hearing
3031 Dole
Lawrence, KS 66045

AAPS Student Members

Hyunjoo Chung
School of Speech Pathology and Audiology
PO Box 5190
Kent State University
Kent, OH 44242

Barbara Colmer
23 White Birch Lane, PO Box 501
Goldens bridge, NY 10526

Kevin Reilly
1406 NE 50th St Apt 3C
Seattle, WA 98105

Roger W. Steeve
University of Washington
Dept of Speech and Hearing Sciences
1417 NE 42nd St.
Seattle, WA 98105-6246

Abstracts of student research

ACOUSTIC, RESPIRATORY KINEMATIC AND ELECTROMYOGRAPHIC EFFECTS OF VOCAL TRAINING

Ana Paula de Brito Garcia Mendes
(352) 380-2451
Department of Communication Sciences and Disorders
University of Florida
Howard B. Rothman, Ph. D., Committee Chair
Doctoral
December 1999

Normal and disordered voice have been the topic of various investigations. However, few have studied the optimal voice, the maximal voice, or even the effects of vocal training. This study investigated the longitudinal effects of vocal training on the articulatory, phonatory and articulatory systems. During four semesters, fourteen voice major students were recorded while speaking and singing. Acoustic and temporal parameters were measured. Results revealed that vocal training has an effect on the singing voice, specifically on the frequency and intensity of the phonational range. During three semesters, respiratory kinematics and electromyographic signals were recorded in four subjects. Results revealed that respiratory movements and muscle force generation change during vocal training.

The findings of this study have implications for singers, vocal pedagogues, speech-language pathologists, voice scientists, and others that deal with the care of the professional voice. These implications are also applicable to universities, voice studios and music departments.

THE AMERICAN ASSOCIATION OF PHONETIC SCIENCES

The purpose of the American Association of Phonetic Sciences (AAPS) is to encourage research in phonetic sciences, to promote cooperative research among scholars and scientists interested in this area and to provide a forum for the exchange and development of information and ideas about phonetic sciences. In this regard, AAPS meets once a year in the Fall (usually in conjunction with either the Acoustical Society of America meeting or the annual convention of the American Speech Language—Hearing Association) at which time a scientific/technical session is held along with the annual business meeting. In addition, twice a year AAPS publishes a newsletter in which the current news and business of the association is printed, it also is a forum for members to express their views on various contemporary issues in phonetics.

Any individual who works in phonetics or has a fundamental interest in this discipline may become a member of the association. The requirements for membership are nomination by two current members*, approval by the AAPS Executive Committee and payment of dues (\$15.00 annually). There is another class of membership available; in this case for students enrolled in a regular academic program leading to a degree in phonetics or a related field at a recognized college or university. The requirements for becoming an AAPS student member are completion of the membership form, signature by the students advisor and payment of dues (\$5.00 annually).

To become a member of AAPS it is only necessary to fill out (please type or print) the form on the reverse side and obtain the signatures of two AAPS members.(

If you can not obtain the signatures of two AAPS members, mail the application to the Executive Secretary without them - the Executive Secretary will serve as your sponsor) To become a student member, it is only necessary to complete the form with a single signature--that of your advisor. An additional membership form is provided to pass on to any interested colleague. Send the form to:

W. S. Brown, Jr., Ph.D.
Executive Secretary
American Association of Phonetic Sciences
P.O. • Box 14095
University Station
Gainesville, FL 32604

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I wish to become a (member) (student member) of AAPS

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Affiliation: _____

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Email address: _____

Phone: _____ Date: _____

Applicants Signature: _____

Sponsor: _____

Sponsor: _____

Please mail with your check for either \$15.00 (member) or \$5.00 (student member) to

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