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AAPS at ASHA 98

The annual AAPS business meeting was held in San Antonio, Texas, in conjunction with the 1998 American Speech-Language-Hearing Association(ASHA) Convention. We had a good turn out and a fruitful discussion. Our primary focus was on how to increase student membership in AAPS and stimulate more AAPS-related activity. Several suggestions were offered, including:

1. organizing an AAPS-sponsored session for the 1999 ASHA Convention comprising several student presentations;
2. adding a student editor to the AAPS Newsletter;
3. offering another AAPS-sponsored session on teaching of the phonetic sciences at the 1999 ASHA Convention;
4. creating “links” with other appropriate organizations (including website links).

In addition, it was suggested that the by-laws be changed to delete the two-signature requirement for applying for AAPS membership. This would make it easier to join AAPS.

All in all, it was a productive and enjoyable meeting. Now we just need to put our words into action!

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 some of these presented papers fail to find their way into print. Abstracts of theses and dissertations are also sought. Bibliographies of specific topics are 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. I also have a special interest in new software for the analysis of acoustic or physiological variables analyzed in speech.

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

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AAPS Presents: Student Research in the Phonetic Sciences

Abstract of Proposal submitted to ASHA

The American Association of Phonetic Sciences is sponsoring this session featuring the research work of students in the phonetic sciences. Four papers will be presented from students from the University of Memphis and the University of Florida. A panel of established investigators will discuss the papers and offer comments about the research presented.

The papers and student presenters are:

Temporal Duration in Repeated Words of Fluent and Non-Fluent Aphasic Speakers
Richard A. Dressler, University of Memphis

Consistency Of Voice Produced By Patients With Adductor Spasmodic Dysphonia Both Within And Across Sessions , Ann Marie Cimino, University of Florida

The Dynamic Analysis of Southern Vowels, Mary Berni, University of Memphis

Speech Motor Learning In Persons With Developmental Dyslexia, Jaumeiko J Coleman Brown, University of Florida

Panel members will include Jenny Hoit, University of Arizona and Tom Murry, University of Pittsburgh.

Complete Abstracts

Temporal Duration in Repeated Words of Fluent and Non-Fluent Aphasic Speakers

Richard A. Dressler, Eugene H. Buder, Michael P. Cannito, School of Audiology & Speech-Language Pathology, University of Memphis, Memphis, TN and Monica Hough, East Carolina University, Department of Communication Sciences and Disorders, Greenville, NC

The study of speech patterns between fluent and non-fluent aphasic speakers offers a unique opportunity to examine the influence of phonetic and phonological processes on temporal speech units. The durations of three temporal measurements were compared between three speaker groups: non-fluent aphasic speakers; fluent aphasic speakers; and non-disordered speakers (five subjects per group) from repeated polysyllabic word productions (five different words, five repetitions each).

The results revealed statistically significant differences between the disordered and non-disordered groups on word and syllable durations ($F_{\text{word}} = 4.13$, $p < .05$; $F_{\text{syl}} = 15.24$, $p < .01$), and contrast tests revealed no significant differences between the two disordered groups. Intersyllabic pause durations were found in contrast analyses to be different between all three groups, with non-fluent

aphasics exhibiting the greatest durations. These results support the findings of previous studies that have shown that non-fluent aphasic speakers exhibit greater syllable segregation and articulatory groping behavior than fluent and non-disordered speakers. These patterns can be attributable to the motor planning disruptions found in non-fluent aphasic speakers.

The influence of phonological disruption was examined by comparing the variabilities of the duration measures between the speaker groups. To compensate for overall slowness in the disordered speakers' word productions, variability of temporal units was measured using the coefficient of variance (SD/Mean). The fluent aphasic speakers were found to have a moderately higher variability than the non-fluent and non-disordered speaker groups in word and syllable durations ($p < .10$). These findings are in contrast to previous studies that have reported that non-fluent aphasic speakers demonstrate greater variability than fluent aphasic speakers.

Overall results of this study suggest that the increased pause durations found in the non-fluent aphasic group reflect a motoric-phonetic disturbance during repeated word productions. The increased variability of speech unit measures seen in the fluent aphasic group, however, suggests a phonetic-linguistic disturbance that affects the production of consistent phonological targets across repeated productions.

Consistency Of Voice Produced By Patients With Adductor Spasmodic Dysphonia Both Within And Across Sessions , Ann Marie Cimino, and Christine Sapienza, Department of Communication Sciences and Disorders, University of Florida, Gainesville, Fl 32611

Adductor spasmodic dysphonia (ADSD) is an idiopathic focal movement disorder affecting the larynx. It causes involuntary and uncontrollable spasms in the vocal fold musculature during voice onset. The perceptual symptoms of ADSD manifest in a squeezed/strangled vocal quality due to hyperactive closure of the true and/or false vocal folds. While vocal variability has been reported through clinical observation, no experimental study of performance consistency in ADSD has been completed. This study examined the consistency of voice production from 20 subjects across three trials within the same day and 8 subjects within six trials recorded during two separate recording sessions approximately five months apart. Each subject produced three trials of sustained vowel phonation, ten trials of sentence productions, and read three trials of a standardized passage. The number of phonatory breaks, frequency shifts and aperiodic segments were counted and compared for all speech samples. Data was subjected to inferential statistical analysis to determine the significance of mean differences across the dependent variables and measurement conditions. Discussion will focus on the underlying theory that ADSD is a result of neuropathology affecting sensory-motor control of the larynx for phonation.

The Dynamic Analysis of Southern Vowels, Mary Berni, and Karen Pollock, The School of Audiology and Speech-Language Pathology, The University of Memphis, Memphis, TN

Vowels are typically measured by plotting F1/F2 steady states at a single point in the acoustic signal; however, vowel length, transitions, and degree of diphthongization are types of information obtainable from vowels in coarticulated speech that are not recorded in steady state measurements. Dynamic displays may be more meaningful than steady state displays for recording the information used to identify vowels.

The purpose of this study is to determine what can be learned from the dynamic analysis of Southern vowels that cannot be learned from the more static measurements of steady state and direction of glide. In Memphis and throughout the South, the steady state first and second formants of vowels are typically not in the canonical position. For example, as a result of the Southern Shift, /i/ and /e/ are centralizing and lowering in the vowel space, and /I, E/ are moving out and up. This study looks at Southern high- and mid-front vowels and compares them with similar Midwestern vowels.

A male and a female Southern speaker, and a male and a female Midwestern speaker, matched to the Southern speakers, read a list of words in a carrier phrase. These words contained tokens of 48 mid and high front vowels in tense/lax minimal pairs, along with a selection of similar words with other vowels to provide the speaker's vowel space. Each target word was digitized on a Kay Computerized Speech Lab. F1/F2 measurements of the vowels were taken every 25 ms. and were displayed dynamically on an F1/ F2 grid. This information was then used to determine vowel length, transitions, and degree of diphthongization in each token. These displays were compared with static displays of the same vowels, and tokens from the Southern speakers were compared with those of the speakers from the Midwest.

Speech Motor Learning In Persons With Developmental Dyslexia, Jaumeiko J Coleman Brown, GERALYN M. SCHULZ, and LINDA LOMBARDINO, Department of Communication Sciences and Disorders, University of Florida, Gainesville, FL

Documented research has shown that persons with developmental dyslexia (DD) have significant difficulty producing multisyllabic words. Cerebral anomalies found in persons with DD revealed cerebellar impairments among other neural anomalies. PET scans of persons who stuttered while speaking multisyllabic words revealed abnormal activation in the cerebellum as well as many other areas of the brain. Speech programming involves translation of abstract linguistic-phonologic representation into a code that can be used by the motor system to generate movements that result in speech. The cerebellum coordinates skilled volitional movements such as speech production and has been shown to be active during acquisition of a skilled motor act. The cerebellum receives advance notice about intended speech from the cortex so that it will be prepared to check the adequacy of the outcome when feedback from speech muscles, tendons, and joints arrive from the periphery. There is wide agreement that speech motor control is an acquired skill that is learned through the imitation of acoustic patterns provided by normal speakers. Persons with DD have difficulty decoding and encoding abstract linguistic-phonological information and therefore have difficulty learning to produce multisyllabic words at the same rate as that of persons with no known speech or language difficulty. Therefore, speech motor learning may be impaired in persons with DD. The following study compared the speech production of a five syllable pseudoword spoken by 4 adult males with DD to that of 4 adult control males. Transcribed utterances were compared for number of correct phonemes. Kinematic and acoustic durations were also made over the entire five syllable pseudoword. Preliminary results indicated that males with DD had fewer correct phonemes, and longer acoustic and kinematic durations than control males. These results suggest that a deficit in speech motor learning may be present in persons with DD and may attribute to the break down in speech production.

UPCOMING EVENTS THIS SIDE OF THE ATLANTIC

(Thanks to foNETiks Newsletter: May 1999)

- 30 July 1999. The Role of Perceptual Phenomena in Phonological Theory. ICPhS99 satellite meeting. San Francisco. (01/99) ehume@ling.ohio-state.edu
- 30 July 1999. Disfluency in Spontaneous Speech. ICPhS99 satellite meeting. UC Berkeley, San Francisco. (03/99) email: disfl@ling.ed.ac.uk, <http://www.ling.ed.ac.uk/~robin/ICPhS-CfP.html>
- 31 July 1999. "Eppur Si Muove" - Dynamics of the Production and Perception of Speech. A satellite symposium of ICPhS99. (Supported by the European Speech Communication Association) (03/99) UC Berkeley, San Francisco <http://www.icsi.berkeley.edu/~steveng/dynamics/>
- 1 - 7 August 1999. ICPhS99: XIVth International Congress of Phonetic Sciences. San Francisco, USA. (11/97) <http://trill.berkeley.edu/ICPhS>
- 7 - 9 August 1999. AVSP '99: 4th Annual Auditory-Visual Speech Processing Conference. University of California at Santa Cruz. Satellite event of ICPhS99. (04/99) More information: <http://mambo.ucsc.edu/avsp99> email: avsp99@fuzzy.ucsc.edu
- 8 - 9 October 1999. Recent Developments in Generative Metrics. University of Toronto, Canada. (04/99) More info: nfriedbe@chass.utoronto.ca, or mgetty@utoronto.ca, or dresher@chass.utoronto.ca
- 1 - 5 November 1999. 137th Meeting of the Acoustical Society of America. Columbus, Ohio. (08/98)
- 5 - 7 November 1999. The 24th Annual Boston University Conference on Language Development. Boston University. (03/99) <http://web.bu.edu/LINGUISTICS/APPLIED/conference.html>

<h2 style="margin: 0;">Treasury Report</h2> <h3 style="margin: 0;">January 1, 1998-December 31, 1998</h3>

Assets

Cash on Hand, December 31, 1997		\$1,138.06
1998 Membership Receipts		
53 members @ \$15.00		\$795.00
5 Students @ \$5.00		\$25.00
1997 Dues (Late payments)		
17 members @ \$15.00		\$255.00
1999 Prepaid Members		
25 members @ \$15.00		\$375.00
3 student @ \$5.00		\$15.00
2000 PrePaid members		
2 members @ \$15.00		\$30.00
Service Charge for canceled check (paid by member)		\$6.00
 Total Assets		 \$2,639.06

Liabilities

Liabilities	
Checks	
#352 canceled (made out incorrectly)	
#353 Department of State (1998 Annual Corp Report)	\$61.25
#354 University of Florida Foundation (services & expenses, 1997)	\$900.00
Alice Dyson (Expenses incurred, 1998 AAPS meeting)	\$100.00
#356 Postmaster (1999 PO Box rental)	\$58.00
1998 Bank charges	\$37.50
Returned check @\$15.00 and service charge \$6.00	\$21.00
Total Liabilities	\$1,177.15
Balance, December 31, 1998	\$1,461.31

AAPS WEB SITE

AAPS now has a web site, or at least the start of one. Thanks to Jim Mahshie and Tim Brunnel, the AAPS Home Page is available for member perusal and input. The site is still very much under construction but stop by and see how it is progressing. Hopefully, all of the pieces will be coming together very soon. Back issues of the AAPS Newsletter are available. You may want to drop Jim or Tim an email with suggestions.

Address: <http://www.gallaudet.edu:80/~aapsjm/index.html>

AAPS DUES CALL

AAPS Dues for 1999 are now due. Please check your records and if you have not yet paid your dues for 1999, please send your check as soon as possible. Dues are \$15.00 for members and \$5.00 for students. Mail to

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a Network Newsletter for the International Phonetic Association and for the Phonetic Sciences

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The foNETiks archive can be found at <http://www.mailbase.ac.uk/lists-f-j/fonetiks/>

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join fonetiks firstname(s) lastname
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as the only text in the body of a message addressed to:
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