# DEPARTMENT OF SPEECH PATHOLOGY AND AUDIOLOGY UNIVERSITY OF IOWA

Newsletter

## Vol. 2, No. 1, February, 1969

The newsletter is circulated about the 15th of each month excluding January, August, and September. News items should be written out and either deposited in the newsletter box in the lounges or given to any of the following people: M. J. Collins, A. Compton, J. Knox, C. Mason, S. McCabe, D. Miller. For additional information, please see Arthur Compton or Douglas Miller.

Everyone in the department is encouraged to contribute any information which they consider to be of departmental interest. It is of special importance to get information concerning alumnae, since there is no systematic method for keeping in touch with our graduates.

# General Department News and Announcements:

REMINDER: For the second semester all keys issued on a semester basis should be turned in or renewed if they were issued for the first semester. Most office and carrel space is assigned on a one-semester basis. This should be done immediately with Mrs. Wade in the departmental office, Room 119. Anyone not desiring or needing an office or carrel space assigned for the second semester should contact the Administrative Assistant.

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1969 INTERNATIONAL CONGRESS ON CLEFT PALATE will be held April 14 to 17, 1969, in Houston, Texas. The Congress is sponsored by the American Cleft Palate Association for the purpose of fostering international communication about cleft palate and associated areas of interest. D. C. Spriestersbach, Secretary-General to the Congress, has indicated that more than one hundred professional workers from other countries have expressed an interest in the Congress.

Duane Van Demark, Assistant to the Secretary-General, has been working on the planning of the Congress and can provide information to anyone who may be interested in attending.

GUEST LECTURE SERIES: Dr. Eugene McDonald will present a paper on the evening of March 17, 1969, entitled "Articulation: a New Look," and Dr. Margaret Byrne will be here on the evening of April 23 to speak on "Language Deficiencies of Environmentally Disadvantaged Children: Implications for Management."

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THE STUDENT-FACULTY RESEARCH SEMINAR began meeting regularly on Thursday afternoons from 3:30 to 5:10 p.m. on February 13. Jerry Carney presented a final report of his doctoral dissertation, entitled "Structural Correlates of Nasality." Steve Giles gave a final report of his Master's thesis, entitled "Reliability of Judgment About the Oral Mechanism." Additional research presentations scheduled to date are as follows:

February 20 - Aaron Favors, Final Report of Ph.D. thesis: "Effect of Anesthesia upon Auditory Bone Conduction Thresholds." Ray Kent, Final Report of Master's thesis: "Articulatory Dynamics of Voiced and Voiceless Stop Consonants."

February 27 - Ric Franzen, Initial Report of Ph.D. thesis: "Threshold of the Acoustic Reflex for Pure Tones."

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INFORMAL STUDENT SEMINAR: A meeting of the student seminar is tentatively planned for early March on the topic "CLINICAL TRAINING: PROBLEMS AND ALTERNATIVES." It is hoped that the discussion will deal with undergraduate as well as graduate programs, and all students are invited to attend. Three or four faculty members will discuss basic questions on clinical training. Any student who wishes to submit a question or alternative to be discussed is encouraged to leave this information with either Carol Emrick or Doug Miller. Further details and the date of the meeting will be posted on the bulletin board.

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OFFICE HOURS of the new videotape consultant in the TV studio will be Monday, Wednesday, and Friday from 9:00 a.m. to 11:00 a.m.; Tuesday and Thursday from 9:00 a.m. to 1:00 p.m. The office will be open every afternoon except Wednesday from 3:45 p.m. to 5:00 p.m.

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SANDRA GALLATIN will also be assigned to work part time in the videotape studio and will be available to help set up TV equipment.

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SUGGESTION FOR A PAPERBACK CIFCULATING LIBRARY SHELF: The following is a brief description of a plan that might afford people in the Center a chance to read many Paperbacks without having to purchase them.

- 1) A group of shelves would be set aside for the Paperback Library.
- 2) A small committee would be needed to set things into motion.
- 3) For a given (two-week) period people in the building would deposit some paperbacks with the committee to help start the library. These would be gifts and would not be returned.
- 4) The committee would then arrange these books on the provided shelves according to general interest areas -- Science Fiction, Novels, etc.
- 5) As of a certain date, the Circulating Library would be declared open.
- 6) This Circulating Library would then work on the Honor System as follows: A reader would bring in a number of books and deposit them in the appropriate sections of the collection. He would then be entitled to remove from the shelves a number of books equal to the number of books he brought in. Only the total number of books is to be taken into account, not the type of book. For example six science fiction books might be brought in and exchanged for three novels and three non-fiction books.
- 7) From time to time a member of the committee would check the shelves, put books into proper sections, etc.
- 8) Occasionally, since there might be breakdowns in the Honor System, a call might have to be put out for some further contributions to the shelves.

I will make personal inquiry of staff and students during the next week or so, and will also have a sign-up sheet in the Student Lounge and the Staff Lounge to see if there is interest. If there is a positive response, action will be taken to start this Circulating Paperback Library.

Jay Melrose

## Professional Activities of Members in Department

#### ARTHUR COMPTON

gave a series of three lectures on "Studies in Psycholinguistics," February 17 to the students and faculty at Area Ten Community College in Cedar Rapids.

#### JAY MELROSE

was in Chicago January 14-15 serving as a member of a NIH team to review the Speech and Hearing facilities of Michael Reese Hospital in response to their request for funds for a research wing in a proposed new communications center.

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# DEAN WILLIAMS

presented a lecture entitled "Stuttering Therapy in the Public Schools" as guest speaker for Sigma Alpha Eta at the University of Nebraska, Lincoln, Nebraska on February 20-21, 1969. He was also guest speaker at a Special Study Institute; SCHOOL CHILDREN WHO STUTTER: THERAPY TECHNIQUES AND PROCEDURES, sponsored by the State of California Department of Education at Asilomar Conference Grounds, Pacific Grove, California on January 9-12, 1969.

# Social Announcements and Personals

JENNIFER LEE, daughter and first child of Herb and Linda Jordan, was born on January 10, 1969.

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KRISTINE ANN, daughter and first child of Jeff and Audrey Knox was born on January 24, 1969.

SUSAN HOGAN was married to James Freeland on December 28, 1968. Jim is a student in Law School at Iowa.

BEST WISHES for a speedy recovery to DOROTHY SHERMAN who is recuperating at home after spending a week in Mercy Hospital.

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A PARTY, hosted by the graduating MA's and Ph.D.'s took place January 24, 1969 at the 19th Hole. A large group of students, faculty and staff consumed a moderate quantity of the beverage served. Dr. Small's Nehru shirt, a gift from California, was the hit of the evening.

JIM LYNN was honored at a going-away-party at the home of SCOTT REGER on January 28, 1969. Several cases of a locally unavailable beverage had been imported to Iowa City by the thoughtful host and were served that night. \*\*\*

THE KENNETH MOLLS hosted the graduating masters and doctoral students at a dinner party at their home on January 25, 1969.

BRETA LAWSHE will take a two-week holiday at the end of February to ski in Vermont and then stay in the Virgin Islands. She will visit with friends on the island of St. Thomas.

## New Students and Staff

WAYNE ALLARD, new social work student, is working toward a Masters degree in Social Work. He received his Bachelor's degree (Ph.B) in Social Work at the University of North Dakota in August, 1967 and worked as a caseworker for one year in Grafton, North Dakota prior to enrolling at the University of Iowa.

DENNIS DRANTZ is the new animal caretaker for the animals which are housed in the animal quarters on the third floor. Dennis is a freshman, liberal arts student.

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CHUCK FLOWERS received his M.A. from Califronia State College at Los Angeles and is enrolled now at Iowa to work toward a Ph.D. in speech pathology.

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BLANCHE R. HISER, new social work student, is working toward a MSW in Social Work. She received her B.A. in Social Work from University of Iowa in August 1965, and worked at the Oakdale Alcoholic Treatment Unit and for the Des Moines County Department of Social Welfare as a caseworker after graduation.

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JEREMY KINDRED, the new videotape consultant, is working toward a Ph.D. in Speech and Dramatic Arts. Jeremy received his B.A. from Cornell College in 1958 and M.A. from the University of Iowa in 1962. He was employed for four years at West Branch, the last two years as audio-visual director. Jeremy and his wife Shirley have a daughter Rachel, 4 years old.

PATRICIA MATEER, the new computer programmer for the department is working toward her M.A. in computer science. She received her B.A. in mathematics from Hope College. (Hometown: Ho-Ho-Kus, New Jersey !)

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SALLY SCHNEIDER is working on an M.A. in speech pathology. Sally's hometown is Arcadia, California, and she received her bachelor's degree from California State College at Los Angeles.

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SUE STRATHMAN received her B.S. from Iowa in February, 1969 and is enrolled to work toward a M.A. in speech pathology.

MARY STAUSS is working on an M.A. in speech pathology. Her hometown is Grinnell, Iowa. She received her B.A. from the University of Kansas in Lawrence in Child Behavior and Development.

SUSAN THOMSEN received her B.S. from Iowa in February, 1969, and is enrolled to work toward a M.A. in speech pathology.

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MARY VASILE is working as a research assistant on a language development research grant with Arthur Compton. Mary and her husband moved to Iowa City from Hartford Connecticut where she had worked as a speech therapist in the public schools. She plans to begin work on her M.A. here in June.

# Departmental Research and Publications

The following articles and reports were published in the <u>dournal of</u> <u>Speech and Hearing Research</u>, Vol. 11 No. 4, December, 1968.

COARTICULATION OF LIP ROUNDING by Raymond Daniloff and Kenneth Moll.

PREDICTING CINEFLUOROGRAPHIC MEASURES OF VELOPHARYNGEAL OPENING FROM LATERAL STILL X-RAY FILMS by James F. Lubker and Hughlett L. Morris.

ELECTRONIC INTEGRATOR FOR MEASUREMENT OF PARTITIONS OF THE LUNG VOLUME by James C. Hardy and Terry D. Edmonds.

REPRODUCING STYLI FOR SPEECH AUDIOMETRY by David J. Lilly and Richard L. Franzen.

THREE PSYCHOLOGICAL SCALING METHODS APPLIED TO LANGUAGE DEVELOPMENT by Dorothy Sherman and Franklin H. Silverman.

STRUCTURAL CORRELATES OF NASALITY by Jerry Carney (Ph.D. Dissertation, January, 1969): The purpose of this study was to evaluate in several ways the severity of nasality and the structural correlates of nasality for two groups of speakers, 10 nasal speakers without cleft palate and 10 nasal speakers with cleft palate. Differences among five vowels and among three speech tasks were studied. The vowels were /i/,  $/\varepsilon/$ , /o/,  $/\Lambda/$ , and /u/; and the speech tasks were isolated vowels, isolated CVC syllables with the same vowels in a voiceless bilabial plosive environment, specifically /p-p/, and the same CVC syllables removed from a 47-syllable continuous speech passage. The psychological scaling procedure of equal-appearing intervals was used to assess severity of nasality in isolated vowels, in the two types of CVC syllables, and in the continuous speech passage. Cinefluorographic films were used for obtaining four structural measures: velar constriction, pharyngeal constriction, oral constriction, and incisor opening.

Based upon the results, the following statements appear to be true:

- Nasal speakers with cleft palate are more nasal, on the average, on high vowels than on low vowels while nasal speakers without cleft palate are more nasal on low vowels than on high vowels;
- (2) For both groups of nasal speakers, CVC syllables removed from a connected speech sample are judged to be less nasal than either isolated vowels or isolated CVC syllables;
- (3) The relationship of psychological scale values of nasality in a continuous speech sample to nasality in the five isolated vowels studied, to the five isolated CVC syllables studied, and to the five CVC syllables in a connected speech sample studied is low for nasal speakers with cleft palate;
- (4) The available evidence does not support a hypothesis that the abovementioned relationship exists for nasal speakers without cleft palate;
- (5) For both groups of nasal speakers, velpharyngeal closure as observed by a lateral x-ray technique for the experimental vocalizations studied are fairly frequent with considerable individual variation among the subjects in both groups in the magnitude and frequency of occurrence of velopharyngeal closure;

- (6) The two groups of nasal speakers were alike in the trends over the 15 speaking conditions of five isolated vowels. five isolated CVC syllables, and five CVC syllables in a connected speech sample on the structural measures of pharyngeal constriction, oral constriction, and incisor opening;
- (7) Severity of nasality is not systematically related to any one of the four structural measures: velar constriction, pharyngeal constriction, oral constriction, and incisor opening; and
- (8) Structural correlates of nasality as described in this study cannot at this time be specifically defined.

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EFFECTS OF ANESTHESIA UPON AUDITORY BONE-CONDUCTIVE THRESHOLDS by Aaron Favors (Ph.D. Dissertation, January, 1969): For nine subjects, four males and five females, with normal hearing, forehead bone-conduction thresholds for 250 Hz and for 500 Hz were measured in quiet and in the presence of a 1065 Hz-wide band of noise at 24 different overall sound pressure levels (OASPL). All subjects' forehead were injected with 3.0 cc of "Xylocaine" and bone-conduction thresholds were measured again. A third measurement was made one week after the injection of the anesthetic agent. A Békésy-type audiometer was used to obtain threshold measurements.

On the basis of the results obtained in the present experiment. we conclude that:

(1) Reliable and valid unoccluded, quiet forehead bone-conduction thresholds can be measured with a Békésy-type audiometer.

(2) With binaural air-conduction masking of a bone-conducted signal, at levels of noise below 100 dB OASPL, a linear masking function is obtained.

(3) At levels of noise above 100 dB OASPL, the masked bone-conduction threshold curve departs from linearity and "non-auditory bone conduction responses" are obtained.

(4) These "non-auditory" responses may be considered vibrotactile responses since they occur at noise level where subjective impression changes from "feeling" to "hearing."

(5) For listeners with normal hearing, a decrease in the width of Békésy tracings will accompany a change from auditory to vibrotactile sensation when forehead bone-conduction thresholds are measured in the presence of binaural air-conducted noise at overall sound pressure levels of 100 dB and above.

(6) For listeners with normal hearing, the threshold of forehead vibrotactile sensitivity is estimated to be  $50 \pm 2.0$  dB HL at 250 Hz and  $60 \pm 2.0$  dB at 500 Hz in the presence of binaural air-conducted noise at levels above 100 dB OASPL.

(7) The forehead bone-conduction vibrotactile thresholds are elevated by anesthetization of the forehead area beneath the bone-conduction vibrator.

(8) The apparent effect of forehead anesthesia upon masked boneconduction thresholds below 95 dB OASPL at 250 Hz defies interpretation at this time.

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THE EFFECTS OF THE ACOUSTIC REFLEX UPON TEMPORARY THRESHOLD SHIFTS by John H. Mills (Ph.D. Dissertation, January, 1969): Ward (J.Acoust. Soc. Am., 34, 1610-1619 1962 ) hypothesized that low-frequency pure tones produced more TTS than low-frequency bands of noise because a sustained contraction of the intra-aural muscles was elicited only by random noise. Three experiments were designed to test this hypothesis. In Experiment 1, 16 normal-hearing subjects with an acoustic reflex were exposed to a 710-Hz pure tone and to a 1/8 octave-band noise with an upper cut-off frequency of 710-Hz. Each exposure signal was presented for 10 minuted at 110-dB SPL (6-cc coupler). TTS was measured at 1000 Hz. At TTS<sub>2</sub> the pure tone produced about 50% more TTS than the 1/8 octave-band noise. This result is consistent with Ward's hypothesis.

In Experiment 2 indirect measures of activity of the stapedius muscles were made with a Zwislocki acoustic bridge on the same 16 subjects with the same exposure signals from Experiment 1. For 15 of the 16 subjects changes in acoustic impedance produced by contralaterally presented 30-second pure and 30-second noise were essentially the same. This finding was not expected in light of available acoustic impedance, electrophysiological, and behavioral data. We have concluded that if changes in acoustic impedance are related to differences in TTS produced by pure tones and by noise, then the important features of the change in acoustic impedance occur at times longer than 30 seconds.

Experiment 3 was a replication of Experiment 1 and Experiment 2 using 6 stapedectomized subjects. For the stapedectomized group, no changes in acoustic impedance were observed when the pure tone or the noise was presented to the opposite ear. This finding supports the hypothesis that changes in acoustic impedance concommitant with contralateral acoustic stimulation are dependent primarily upon activity of the stapedius muscle. The stapedectomized group had essentially the same TTS for the noise as for the tone. At the longer recovery times 4 of the 6 stapedectomized subjects had more TTS from the noise than from the tone. These findings are consistent with Ward's hypothesis. The TTS data for our stapedectomized subjects, when considered with published remote-masking data for stapedectomized subjects, support the hypothesis that the acoustic reflex has more pronounced effects upon high-level signals than upon low- or moderate-level signals.

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RELIABILITY OF JUDGMENTS ABOUT THE ORAL MECHANISM by Steve Giles (M.A. thesis, January 1969): Clinicians in health related professions make clinical judgments every day and, to be effective in their roles as clinicians, these decisions need to be reliable. Judgments made by a management team also need to be reliable so that effective management decisions can be made. The purpose of this study was to investigate intra- or inter-judge reliability of clinical judgments of the oral mechanism of both cleft palate and normal speakers. To investigate intra-judge reliability, 14 normal speakers were examined on two occasions by two clinicians. To investigate inter-judge reliability, 124 patients with congenital cleft palate were examined by three clinicians on the same day. A standard procedure for examining the oral mechanism was used for all examinations. Highest intra - and inter-judge reliability was obtained for observations dealing with the condition of the tissue and size of oral structures. Lowest intra- and inter-judge reliability was noted in those observations having to do with amount of movement of the structures of the speech mechanism. The level of reliability for both inter- and intra-judge reliability of clinical judgments of the oral mechanism is probably not satisfactory for many research purposes but may be satisfactory for many clinical needs.

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ARTICULTAORY DYNAMICS OF VOICED AND VOICELESS STOP CONSONANTS by Ray Kent (M.A. thesis, January 1969): The purpose of this study was to investigate supraglottal differences between voiced and voiceless stop consonants. Cinefluorographic films and throat-microphone recordings were obtained from three normal speakers for eighteen pairs of utterances in which one member differed from the other only in a stop cognate, i.e., /p, t, k/:/b, d,g/. The utterances were of the forms VCV, VCNV and VNCV where V = vowel /i/ or /a/, C = stop and N = nasal consonant which is nonhomorganic with the stop.

Analysis of the data showed that the stop cognates were similar in the gesture of the oral articulator but dissimilar in respect to supraglottal volume and velopharyngeal coarticulation. Voiced stops were associated with the larger supraglottal volume and there appeared to be a progressive increase in volume during these stops. The larger volume for voiced stops was interpreted to be a mechanism which maintains transglottal flow; i.e., voicing during a period of vocaltract occlusion. Two compenents of volume increase were identified and it is argued that both result from active rather than passive mechanisms. The data provide no support for the notion of a fortis-lenis contrast as applied to stop consonants in English. In fact, for a given place of production, the voiced stop, voiceless stop, and nasal all appear to be executed with the same gesture of the oral articulator.

The effects of the two vowel contexts on consonant characteristics also were studied. One finding of importance to models of speech production is that the velocity of a consonantal gesture depends upon the geometric distance which the articulator must traverse.

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BÉKÉSY THRESHOLDS AS A FUNCTION OF ATTENUATION RATE by James Lynn (M.A. thesis, January 1969): Threshold measures were obtained from 18 listeners by the Békésy method, and a modified Békésy method. The modified method permitted Békésy-like threshold tracings to be obtained without the obscuring effects of reaction time and decision-making time. Conventional and modified tracings were obtained for pulsed and continuous tones at attenuation rates of 1.25, 2.5, and 5.0 dB/sec. In comparing threshold measures obtained by these three procedures, the following were found:

1. When thresholds obtained by the method of limits were compared with the midlines of tracings made with pulsed tones at an attenuation rate of 2.5 dB/sec, the difference between threshold measures was 0.03 dB. These results are in agreement with those reported by Burns and Hinchcliffe (1957) and by Reger (1968). However, they do not support the findings of Harbert and Young (1966).

2. As attenuation rate was increased, the mean midline of tracings for continuous tones yielded slightly lower values. Midline measures of tracings made with pulsed tones remained relatively constant over all attenuation rates. This finding is similar to the results reported by Reger; however, it does not support the findings of Harbert and Young.

3. The differences between the mean threshold obtained by the method of limits and the mean midline of tracings obtained by the modified Bekesy method for pulsed tones at 2.5 dB/sec. was 0.28 dB. Apparently the midline of the modified tracing approximates the threshold that would be obtained by the method of limits. It also seemed to eliminate "extraneous" time from the conventional excursion.

The above observations indicate that the conventional Békésy tracing midpoint constitutes a more consistent measure of threshold (as compared with the method of limits) than do either extremes of the excursion. When the Békésy method is used, the threshold being measured appear to be affected by some of the signal parameters; particularly, with the continuous tone at slow attenuation rates.

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#### Graduating Students

## Ph.D. Degrees:

JERRY CARNEY plans to continue in his present position as Research Associate in the department of speech pathology and audiology until September, 1969.

AARON FAVORS has joined the faculty at the University of Iowa and will teach courses and do clinical work with children and adults who have oralaural communication problems associated with hearing loss. He also plans to do research and serve as the coordinator of the videotape facilities in the department.

JOHN (JACK) MILLS will continue post-doctoral research at Central Institute for the Deaf in St. Louis, Missouri.

M.A. Degrees:

ANN COX has accepted a position as a speech clinician in the Murray School District, Dublin, California.

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JUDY GEITH has accepted a position as speech and hearing clinician at the Chicago State Hospital and will be working primarily with emotionally disturbed population.

JAN GESAS has accepted a position as speech pathologist at the Loveless Clinic in Albuquerque, New Mexico.

STEVE GILES plans to remain at lowa to continue work on his Ph.D. in speech pathology.

RAY KENT plans to remain at Iowa to continue work on his Ph.D. in speech science.

VICKI KIMMEL has accepted a position as a speech clinician at Bayshore Speech and Hearing Clinic in Queens, New York.

JIM LYNN was inducted into the U.S. Army on February 3. He was then sent to Ft. Polk, Louisiana for basic training.

MARGARET MAXWELL is living in Mt. Vernon, New York and is preparing for her forthcoming marriage. Her professional plans are tentative as yet.

JEANNE NELSON is working in the Cedar Rapids Public Schools as speech clinician for four elementary schools. Jeanne is engaged to Frank Huck, a student at the University of Iowa, and is planning to be married upon completion of her finance's graduate work.

LINDA SCHUBERT is living in Boston, Massachusetts and has temporarily retired from professional activities. Her new baby keeps her busy at home.

BECKY SNYDER has accepted a position as speech and hearing clinician at the George Zeller Zone Center, an institution for the mentally retarded and emotionally disturbed in Peoria, Illinois.

# Bachelor's Degrees

CIA	ABEL
L.	MADDEN
G.	OHLINGER
Μ.	STRATHMAN
Ε.	THOMSEN
	L. G. M.

# DEPARTMENT OF SPEECH PATHOLOGY AND AUDIOLOGY UNIVERSITY OF IOWA

#### Newsletter

# Vol. 2, No. 2, March, 1969

The newsletter is circulated about the 15th of each month excluding January, August, and September. News items should be written out and either deposited in the newsletter box in the lounges or given to any of the following people: M. J. Collins, A. Compton, J. Gordon, L. Hanau, J. Knox, S. McCabe, D. Miller. For additional information, please see Arthur Compton or Douglas Miller.

Everyone in the department is encouraged to contribute any information which they consider to be of departmental interest. It is of special importance to get information concerning alumnae, since there is no systematic method for keeping in touch with our graduates.

#### General Department News and Announcements:

GUEST LECTURE SERIES: Dr. Eugene McDonald spoke on "Counseling by Speech Pathologists and Audiologists" on the afternoon of March 17th and that evening presented a paper entitled "Articulation - A New Look." On the evening of March 31, Professor Georg von Bekesy will give a public lecture entitled "Lateral Inhibition in Sense Organs." Professor von Bekesy was the 1961 Nobel Prize winner in Medicine or Physiology for his discoveries concerning the physical mechanisms of excitation in the cochlea. On April 23, Dr. Margaret Byrne will speak on "Language Deficiencies of Environmentally Disadvantaged Children: Implications for Management."

STUDENT FACULTY RESEARCH SEMINAR: On March 6, Ehud Yairi presented a progress report of his dissertation entitled, "Perception of Parental Attitudes by Stuttering and by Nonstuttering Children." Ann Smit gave a report on her thesis, "Speech Physiology in Cerebral Palsied Children." The following sessions have been scheduled:

March 20 - Kenneth Moll - "Recent Research in Speech Articulation."
 March 27 - James Hardy - "Research in Speech Breathing Physiology."
 April 3 - Richard Mease, preliminary report of Ph.D. thesis - "Investigation of a Basic Speech Posture and Its Influence on Coarticulation."

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THE CONFERENCE ON "PSYCHOLINGUISTIC APPROACHES TO THE STUDY OF LANGUAGE DEVELOPMENT AND DISORDERS," to be sponsored by the Department of Speech Pathology and Audiology will be held on June 20-21. The conference participants include Delores D. Kluppel from the Department of Communicative Disorders, University of Wisconsin; Laura L. Lee from the Department of Communicative Disorders, Northwestern University; and Arthur J. Compton, Department of Speech Pathology and Audiology, University of Iowa. Aspects of normal and abnormal language to be covered include phonological, syntactic, and semantic development and learning vs. performance as developmental variables. The official conference announcement including specific details will be available about the 15th of April.

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CONGRATULATIONS! Ray Kent passed his Ph.D. comprehensives.

THE LANGUAGE COLLOQUIUM was begun several years ago as a means of bringing together students and faculty from various disciplines within the University who have some interest in any of the many facets of language study. The primary purpose of the colloquium is to exchange ideas and learn a little more about what others are doing in areas of language outside one's particular specialty interests. Persons attending the monthly colloquium lectures represent such diverse interests as English, the Writers' Workshop, Speech and Dramatic Art, Linguistics, the various Foreign Language Departments, Mathematics, Neurology, Computor Service, Psychiatry, Philosophy, Sociology, Anthropology, Psychology, Child Development, Speech Pathology and Audiology, and Education. There are typically three visiting and five local speakers scheduled throughout the regular school year. Lecture announcements will be posted in the lounges and all interested persons are invited to attend. \*\*\*

STATE STERVICES FOR CRIPPLED CHILDREN gave a workshop in Red Oak, Lowa and another in Chariton, Iowa on speech and language skills of mentally retarded children for the special education classroom teachers in southwest Iowa.

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## Professional Activities of Members in Department

#### AARON FAVORS

gave a lecture on March 7 at the University of Kansas Medical Center entitled, "The Speech of Children With Hearing Impairments in a Public School Setting." The lecture was also carried by microwave closed-circuit TV to the Lawrence campus. \*\*\*

# JAMES C. HARDY

and Dr. James W. Schweiger, Prosthodontist, Department of Otolaryngology and Maxillofacial Surgery traveled to the University of Pittsburgh on March 19 and served as consultants to the Cleft Palate Research Center on a project on management of palatal paresis by prosthodontic procedures. \*\*\*

#### KENNETH MOLL

attended a meeting of the Directors of Programs of Speech Pathology and Audiology of the Big Ten at Bloomington, Indiana in February. Kenneth Moll also gave a lecture at the University of Iowa Language Colloquium entitled, "Speech -Sound Co-Articulation as Related to Models of Speech Production."

#### ARNOLD SMALL

gave a lecture entitled "Introduction to Psychoacoustics on March 14-16 at Mayo Clinic, Rochester, Minnesota.

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## DEAN E. WILLIAMS

gave a lecture entitled "The Elementary Schools: A Good Place To Do Stuttering Therapy" at the Seventeenth Annual State Conference of the California Speech and Hearing Association, San Francisco, California, March 20-22. \*\*\*

#### Social Announcements and Personals

KELLY ANN, daughter and first child of Lee and Gay Woods, was born on February 24, 1969.

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ED CONTOUR was married to Linda Shelley Smith on March 4, 1969. Linda is a speech therapist at Hospital School. \* <del>\* ×</del>

PATTY MATEER plans to marry John A. Tanis, a graduate student in physics, on April 5, 1969. \*\*\*

PAULINE LIPSON celebrated the completion of her thesis and orals with a party at Aaron Favors' house on March 12. She has returned to New York to

# prepare for her May wedding.

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"DRINKING OF THE GREEN" On March 17 the Department sponsored an informal gathering, complete with green brew, for all students and faculty after Dr. McDonald's evening lecture.

#### Alumni Note

MARK T. McDOWALL (M.A., 1967) has passed his Ph.D. comprehensive exams at the University of Oklahoma Medical Center and will go into the U.S. Army on April 7. Mark will be at Ft. Sam Houston, Texas for eight weeks' training before going to San Francisco for duty as an audiologist.

#### Editorial

If anyone has the final answer concerning what ingredients constitutes the essentials of a well-rounded education, I have never met him. Nor do I ever expect to. Education is one of those subjects on which everyone has an opinion, to which he usually gives emphatic expression, whether or not his training and experience qualify him to speak with authority, and however little his temperament may incline him toward a thoughtful and unbiased analysis of educational issues.

There are, however, a few generalizations on which there appear to be a considerable amount of agreement, at least at the verbal level. Admittedly, practice often falls somewhat short of verbal declaration. One such generalization is the proposition that an education should have a significant broadening effect, as well as prepare us to perform competently in some specialty. It would probably be difficult to find anyone who would argue the negative side of that proposition. However, when these two requirements are pitted against each other in the form of specialization vs. generalization and are forced to compete for money and space, or faculty and student time and effort, the competitive advantage appears to be heavily on the side of specialization. In a world which is deluged with a continuously accelerating outpouring of specialized technical and scientific information, one is almost forced, in simple self-defense, to circumscribe the range of his interests by ever narrowing boundaries. It is, perhaps, understandable therefore that attitudes and interests of students (and faculty, too, sometimes) reflect an ever increasing narrowness.

However, the fact that a plausible apology can be presented does not mean that narrowness can be justified, or that it is not a matter for serious concern. On the contrary, the tendency toward over-specialization is a matter about which we need to become deeply concerned and which we need to counteract with every means at our disposal. The faculty of this department has for a long time been concerned and has sought ways of countering the tendency toward overly narrow specialization. Two methods for doing this, which are an integral part of the department's offerings are the student-faculty research seminars and the program of visiting lecturers. These programs have many intrinsic values. They should be invaluable learning experiences for both students and faculty for a number of reasons. Very high on any list of such reasons must be that they offer an opportunity to broaden one's horizons, to be stimulated by ideas from outside his own narrowly defined specialization, and to enhance his understanding and appreciation for the work of persons representing specialized interests other than his own. I do not think that it is possible to overemphasize the importance of such broadening experiences in today's overly specialized educational climate.

Hence, when I detect that the value of these important and fundamental educational experiences is being lessened because of lack of attendance and participation by those who should be their primary beneficiaries I cannot avoid being gravely alarmed. To me it seems obvious that there must be something very, very wrong when we invite a distinguished visiting lecturer from another institution and his audience consists of a handful of faculty and students, almost entirely composed of those individuals who share the speaker's area of specialization. There is also something very, very wrong when the research seminars are poorly attended, and when those who come regularly constitute a very small group - the same individuals week after week. These seminars offer an unparalleled opportunity to learn what students and faculty representing all varieties of specialization within our broad field of human communications and its disorders are thinking and doing. The failure of many to take advantage of such opportunities seems to me to represent an appalling and deplorable situation.

I fully realize that everyone is busy. No one ever has enough time. Instructors in all courses demand more than students can possibly manage to get done, etc., etc. I cannot accept this as a valid reason for the situation I have described. Time is the most precious of all commodities. There will never be enough of it. Hence, one must always budget his time according to a set of priorities. What concerns me most of all is that so many students, and unfortunately some faculty and staff, have placed such a low priority on the important educational objectives of broadening their knowledge and resisting the forces which impell us toward overly narrow specialization. I cannot accept as a valid reason for nonattendance at a seminar or lecture the oft-heard statement, "Well, that really isn't in my area of special interest."

---James F. Curtis

The first day of spring is one thing, and the first spring day is another. The difference between them is sometimes as great as a month.

---Bartlett's Familiar Quotations

# DEPARTMENT OF SPEECH PATHOLOGY AND AUDIOLOGY UNIVERSITY OF IOWA

#### Newsletter

# Vol. 2, No. 3, April, 1969

The newsletter is circulated about the 20th of each month excluding January, August, and September. News items should be written out and either deposited in the newsletter box in the lounges or given to any of the following people: M. J. Collins, A. Compton, E. Conture, J. Gordon, L. Hanau, S. McCabe, D. Miller, K. Monkhouse. For additional information, please see Arthur Compton or Douglas Miller.

Everyone in the department is encouraged to contribute any information which they consider to be of departmental interest. It is of special importance to get information concerning alumnae, since there is no systematic method for keeping in touch with our graduates.

## Department News and Announcements:

THE PAPERBACK LIBRARY has been set up in the departmental library. The books are arranged according to general interest areas: Science Fiction, Mystery, Novels and Fiction, Odds and Ends. This library is open for use by anyone and is operating on the Honor System as follows: a reader would bring in a number of books and deposit them in the appropriate sections of the collection. He would then be entitled to remove from the shelves a number of books equal to the number of books he brought in. Only the number of books is to be taken into account, not the type. Anyone who has additional books to donate may put them on the appropriate shelf. Since there may be breakdowns in the Honor System, an occasional call might have to be put out for further contributions.

GUEST LECTURE SERIES: On March 31, Professor Georg von Békésy gave a public lecture entitled "Lateral Inhibition in Sense Organs." On April 23 at 8:00 p.m. Dr. Margaret Byrne will speak on "Language Deficiencies of Environmentally Disadvantaged Children." She will also be in the auditorium from 11:30 to 12:30 p.m. on April 24 for an informal discussion on children's language deficiencies and will meet with students in the student lounge from 3:00 - 3:30 p.m.

ISHA: A meeting for speech and hearing clinicians sponsored jointly by the Iowa Speech and Hearing Association and the State Department of Public Instruction will be held May 10 at the Wendell Johnson Speech and Hearing Center. In the morning from 10:30 - 12:30 Hugh Morris will present a lecture entitled "Voice Disorders in Children: A Progress Report." In the afternoon there will be a panel discussion on the recently held Articulation Institute. All students are welcome to attend these sessions, which will be held in the auditorium.

INFORMAL STUDENT SEMINAR: A meeting will be held on May in at 8:00 p.m. in the auditorium (room 308) to discuss the topic, "The Undergraduate Program and M.A. Clinical Training." Doctors Moll, Melrose, Williams, and Anderson will open the session with a discussion of the departmental philosophy about undergraduate and graduate training and a presentation of the current program and possible modifications. The meeting will be opened to questions. All students are welcome, and <u>undergraduates are specifically invited</u> to attend. It is hoped that a number of students from all levels of the graduate and undergraduate clinical program will be there to express their ideas and needs. Ref shments will be available after the discussion.

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SELECTION OF STUDENT REPRESENTATIVES: During the month of May student representatives will be selected for 1969-70 to serve on the following committees; (a) clinical committee; (b) departmental graduate representatives; (c) graduate student senate; and (d) informal student seminar. Approximately 12 positions are open. If you are interested in serving on any of these committees, please contact Doug Miller or Ann Smit.

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## CURRENT DEPARTMENTAL FACULTY COMMITTEES:

- 1. Admissions and Appointments: Moll (Chairman), Morris, Williams
- Curricula, Courses and Examinations: Anderson (Chairman), Hardy, Sherman, Dripps
  Space Assignment: Small (Chairman), Compton, Melrose
- 4. Equipment and Furnishings: Lilly (Chairman), Wernick, Favors
- 5. Conferences, Guest Lectures, Special Programs: Hardy (Chairman), Compton, Emge
- 6. Federal Programs: Moll (Chairman), Melrose, Morris
- 7. Recruitment: Curtis (Chairman), VanDemark, Betts
- 8. Research Ethics: Small (Chairman), Wernick, Williams
- 9. Shop Utilization: Lilly (Chairman), Curtis Small
- 10. Departmental Social Events: Carney (Chairman), Baylis, Emge, Thelin, VanDemark
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## Professional Activities of Members in Department

## JAMES F. CURTIS

presented an invited paper entitled, "The Acoustics of Nasalized Speech" at the 1969 International Congress on Cleft Palate in Houston, Texas on April 16, 1969.

#### KENNETH L. MOLL

gave talks on "Phonetics and Speech Articulation" at special sessions in speech at the 1969 International Congress on Cleft Palate in Houston, Texas. He was also co-author of a paper "Cinefluorographic Study of the Posterior Pharyngeal Flap Mechanism" given by Mrs. Judith Finkel Harrington, a 1965 U of I graduate, at the International Congress.

#### JEANNE K. SMITH

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spoke on "Contraindications for Speech Therapy for Cleft Palate Speakers" at a special session in speech at the International Congress on Cleft Palate.

# JOHN H. MILLS and DAVID J. LILLY

presented a paper entitled "Some Effects of the Acoustic Reflex Upon Temporary Threshold Shift" at the Acoustical Society of America Convention in Philadelphia, April 7-12.

## RAYMOND KENT and KENNETH L. MOLL

presented a paper entitled Vocal-Tract Characteristics of Voiced and Voiceless Stop Consonants at the Acoustical Society of America Convention in Philadelphia.

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#### JAMES F. CURTIS

will present a series of lectures entitled "Physiological Acoustics of Phonation: Review of Research and Theory With Application to Clinical Voice Problems" at the University of Hawaii from April 18 - May 4.

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## HUGHLETT L. MORRIS

presented a talked entitled "Clinical Management of Cleft Palate in Speech Pathology" at the Minnesota Speech and Hearing Association meeting in St. Paul on April 19.

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## Social Announcements and Personals

JUDY GEITH is working as residential speech and hearing consultant for State Services for Crippled Children.

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CINDY MASON is working as a full-time clinician with elementary age children at State Services for Crippled Children.

JIM LYNN will report for duty at Ft. McCoellan, Alabama on April 26.

JERRI KAHN AND JIM LYNN will be married at 4:00 p.m. on April 23 in the Danforth Chapel.

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Although Eating Honey was a very good thing to do, there was a moment just before you began to eat it which was better than when you were, but he didn't know what it was called.

> --A.A. Milne The House at Pooh Corner

## New Students and Staff

JULIA LYON is the new secretary for Dr. Williams. Julia graduated from the University of Iowa in 1960 and taught social studies in Junior High for seven years. She is married and has two children.

#### Departmental Research and Publications

A SECOND PRINTING of Cleft Palate and Communication, edited by D. C. Spriestersbach and Dorothy Sherman, including chapters by J.F. Curtis, K.L. Moll, and H.L. Morris, became available on February 25, 1969.

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STUDENT-FACULTY RESEARCH SEMINAF: On April 17, Ed Conture presented a preliminary M.A. report entitled "Modification of Stuttering by Means of Response Contingent Auditory Playback of Fluent and Disfluent Speech." The sessions scheduled for the remainder of the semester are as follows:

April 24 - no meeting

- May 1 Arthur Compton "Generative Analyses of Children's Phonological Disorders."
- May 8 Ronald Netsel, final report of Ph.D. thesis "Physiological Study of Syllable Stress."
- May 15 David Nelson, preliminary M.A. report "The Relation Between Band Width and Maximum Temporary Threshold Shift."
- May 22 Stanley Hutton, preliminary M.A. report "A Phonological Analysis of Children's Articulation Errors.

COMMUNICATION SKILLS OF MONGOLOID CHILDREN by Pauline Lipson (M.A. Thesis, June, 1969). The purpose of this study was to investigate the structure and foundation of the oral mechanism, articulation skills, problems of intelligibility, and voice quality of a group of 40 mongoloid children as compared to a group of 40 mentally retarded children of mixed etiologies. The procedures used in the examination of the subjects consisted of the administration of 112 items of the Templin-Darley Articulation Test and an Oral Mechanism Examination. Single word and connected speech samples were recorded and judged by the method of equal-appearing intervals.

Examination of the findings of this investigation indicate the following conclusions:

(1) Despite the special problems and many limitations encountered in examining trainable mentally retarded children, valid information can be obtained when the procedures are carefully selected and designed.

(2) There is a definite difference in the appearance of the oral structure of the mongoloids as compared to the controls, characterized by abnormal dentition, a high-vaulted palate, and a large tongue with transverse fissures.

(3) The mongoloids do not differ from the controls to any great extent in their ability to manipulate the structures of the speech mechanism for simple tasks of tongue mobility and single syllable repetition. The breakdown of function that does occur for the more complicated tasks cannot be accounted for by the structural and anatomical deviations of the mongoloids' oral mechanism.

(4) Both the mongoloid and control subjects presented poorer articulation skills than those found in a normal population.

(5) Although, as a group, the mongoloids tend to have poorer scores than the controls on the Templin Darley Articulation Test, the difference between the groups is not sufficient to explain the reports in the literature and the clinical observation of the severity of the speech problems among mongoloids as compared to other mentally retarded children.

(6) Mongoloid children do not seem to present a specific pattern of articulation problems that are peculiar to them as a group.

(7) As a group, the mongoloids are considerably less intelligible than the controls.

(8) The difference in the degree of intelligibility between the connected speech samples and the single word samples of the mongoloid subjects seems to indicate that for mongoloids there is a breakdown in intelligibility as the complexity of the speech signal is increased.

(9) Hoarse voice quality appears to be a characteristic of the mongoloid population and may be one of the variables contributing to the problem of intelligibility.

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He thought that if he stood on the bottom rail of the bridge and leant over, and watched the river slipping slowly away beneath him, then he would suddenly know everything that there was to be known.

> --A.A. Milne The House at Pooh Corner

# DEPARTMENT OF SPEECH PATHOLOGY AND AUDIOLOGY UNIVERSITY OF IOWA

#### Newsletter

#### Vol. 2, No. 4, May, 1969

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Everyone in the department is encouraged to contribute any information which they consider to be of departmental interest. It is of special importance to get information concerning alumnae, since there is no systematic method for keeping in touch with our graduates.

# Department News and Announcements:

PICNIC: The departmental social committee is working on initial plans for a summer picnic. All undergraduate and graduate students, staff, faculty, and their families will be invited. The "Happening" is tentatively scheduled to be held in the City Park in July.

A group of faculty, staff, and students participated in a "warm-up" for the departmental picnic at the Coralville Reservoir on Friday, May 16th. For obvious reasons, M. Seemuth has been banned from any future JARTS competition.

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CONGRATULATIONS! Steve Giles passed his Ph.D. comprehensives.

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OFFICES AND CARRELS: During the last few weeks, a number of items have been reported missing from the study carrels and the offices on both the first and second floors of the Speech and Hearing Center. Some money has been removed from purses left on desks or in carrels. Staff and students should lock up offices whenever they plan to be gone for more than a few minutes; money or valuables should not be left on the carrel desks. If any staff member or student has any information about these incidents or loses any valuables in the next few weeks, they are strongly encouraged to contact Dr. Moll.

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SALLY PETERSON will be employed as the head pathologist at a camp for cleft palate children in La Honda, California. The camp is sponsored by the San Francisco Easter Seal Society and runs from late June to early August.

THE SUMMER RESIDENTIAL PROGRAM for 1969 is being changed considerably from former summers. The changes include having a staff of 10 full-time counselors living in with the children so that there will be one counselor for every five or six children. The fifty children who are expected will be divided into small "families," and it is felt that they will become better acquainted in this way and also that the counselors will get to know their particular children very well. The major portion of the responsibility for getting the pre-season planning accomplished was in the hands of the Clinic Co-ordinator, Mrs. Jan Whitebook. Jeff Knox has taken on the job of being her assistant (Lord High Everything Else) for the summer, and we wish him well.

Our kitchen staff will be headed up by Miss King who was our cook last summer. Beth Grable and Cindy Elliott will be her helpers. The Head Counselor is Larry Hedges. He has been with us at the Clinic all year as our Psychologist and he is now putting on the finishing touches to his Doctoral Dissertation. His wife, Judy, will be another of our counselors. The remaining counselors have all been chosen because they have something special to offer the program such as experience in music, arts and crafts, recreation and art, and/or because they are in the Speech Pathology and Audiology Program and wanted to gain this experience. It is thought that each "family" will plan its own recreational activities either for its own group or with one or more other groups, depending upon the nature of the activity. Every so often there will be some all-camp activities, but as much independent action as possible will be allowed.

More than fifty practicum hour enrollments have been projected across the various pathology areas and soon the impossible task will be tackled of trying to match up clients, supervisors and student clinicians so that the complicated schedule can be completed. As presently planned, there will be sessions of approximately forty minutes, each of which will be followed by an immediate conference with supervisors on days when observations will be held. Some clinical hours will also be arranged in individual and group activities at the DU house, in recreational activities, and in informal meetings with the children. This should allow the student clinicians to get to know the children better in settings other than the regular therapy sessions.

--Jay Melrose

THREE SENIORS are expected to graduate with Honors in the Department of Speech Pathology and Audiology. Karen Schade is writing an Honors thesis on speech problems and mental retardation; Judith Reed is working on an evaluation of articulation and speech sound discrimination; and Virginia Currans is doing her special project with a study of the voice disorder of nasality. All three of the Honors theses are being done under the direction of D. Sherman.

THE EDUCATION AND TRAINING PROGRAM of the Department has been approved for (E.T.B.) accreditation in the areas of both Speech Pathology and Audiology by the Board of Directors of the American Boards of Examiners in Speech Pathology and Audiology upon the recommendation of the Education and Training Board. The accreditation is for a five-year period.

CONGRATULATIONS: Jeff Knox passed his Ph.D. comprehensives.

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INFORMAL STUDENT SEMINAR: On May 19, Drs. Moll, Melrose, Anderson and Williams discussed the topic "The Undergraduate Program and MA Clinical Training." The nature and rationale of the present program were presented as well as changes being considered in course work and practicum experience. The faculty members entertained questions, comments, and complaints from the audience. The possibility of an undergraduate student organization was suggested. Such an organization could provide a means of making undergraduates familiar with the field and help them feel more a part of the department. Interested students should contact Dr. Moll.

Students are requested to leave suggestions for future seminars in the Newsletter box or contact Stan Hutton or Sally Peterson.

KEYS - REMINDER - <u>All</u> keys must be turned in and/or reissued before the close of the semester, Wednesday, June 4.

STUDENT COMMITTEES: In May, the graduate students elected new committee representatives for 1969-70. Ed Conture was selected to represent our department in the Graduate Student Senate. Mary Bowstead, Doug Miller, Dave Nelson, and Jim Thelinwere elected to the departmental graduate committee. Carole Emrick, Ray Kent, Jeff Knox, and Kay Monkhouse will serve on the student clinical committee; any interested undergraduate, preferably a senior next fall, should contact one of the above members for further information. Stan Hutton and Sally Peterson will help organize the Informal Student Seminars next year.

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THE IOWA SPEECH AND HEARING ASSOCIATION held its annual regional meeting on Saturday, May 10, at the Wendell Johnson Speech and Hearing Center. In the morning presentation, Elain Dripps, Marie Emge, Jay Melrose, and Hughlett Morris discussed "Voice Disorders in Children: A Progress Report." The afternoon presentation was a panel discussion of the Articulation Institute sponsored by the Department of Public Instruction.

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KATHRYN CARSON, a freshman honor student has been granted 20 semester hours credit toward graduation on the basis of examination results, and at the beginning of her second year (September, 1969) she will be within three semester hours of being classified as a junior.

SCOTT M. REGER was among the faculty, 1968-69 emeriti, who were awarded special certificates of recognition at the annual Faculty Recognition dinner, May 6, 1969.

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# Professional Activities of Members in Department

#### ARTHUR COMPTON

presented a paper entitled "Psycholinguistics: Some Background for Speech and Hearing Clinicians," at the Western - Central Regional meeting of the Iowa Speech and Hearing Association on May 10, at Okoboji, Iowa.

## JAMES C. HARDY

attended a joint meeting of the Committee on Clinical Standards and the Committee on Clinical Certification of the American Speech and Hearing Association in Cincinnati, Ohio, May 3 and 4. Dr. Hardy is Chairman of the CCS which has the responsibility of recommending policies to ASHA pertaining to requirements for certification of clinical competency. On April 29 he gave a paper before the Sections of Neurology, Mayo Clinic, Rochester, Minnesota entitled "Research in Respiratory Function Problems Associated with Dysarthria."

#### HUGHLETT L. MORRIS

presented two lectures on Counseling Procedures for Speech and Hearing Problems at the University of Missouri, Columbia, Missouri on May 14 and 15.

## DEAN E. WILLIAMS

Lectured at the Speech and Hearing Clinic at Northern Illinois University, DeKalb, Illinois on April 26, 1969. He also gave a speech at the Sigma Alpha Eta banquet entitled "On Becoming a Clinician - - and a Person" in Cedar Falls on May 1. On May 2 he gave two formal presentations entitled "Stuttering Therapy in Children" to the speech pathology and audiology staff at University of Northern Iowa. On May 16, Dr. Williams was a guest speaker at an In-service Training Frogram at the Cincinnati Speech and Hearing Center, Cincinnati, Ohio; his lecture was entitled "New Research Findings with Stuttering Children."

#### Social Announcements and Personals

FIRST BIRTH IN WJSHC: Twin chinchillas born to Mama Chinchilla on or about May 8, 1969 in the Animal Lab. Only one baby survived, but "it" and Mama are fine. Please do not suggest any names until the lab personnel determine the sex of the new arrival.

"PLEASE SEE ME AS SOON AS POSSIBLE," (4/24/69): Would this originator of this message care to make their identity known to M.M.? If you don't know which M.M., forget it - try an M & M!

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DOUBLE CONGRATULATIONS GRANDPA WILLIAMS!! John Tyler, son and first child of John and Devon Kundel, was born on April 14, 1969. Scott Gordon, son and first child of Gordon and Pam Williams was born on April 23, 1969 in Biloxi, Mississippi.

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GINNY BALTRUS and Roger Huels will be married June 7 in Park Ridge, Illinois. In the fall Ginny will be attending Graduate School at Case Western Reserve University in Cleveland, Ohio. Roger will teach high school science.

CAROL ANN BAYLIS and Peter Judson Blanton will be married June 7 in Prentiss, Mississippi. Peter will receive his M.A. in Biochemistry in June and will begin work toward an M.A. in Business Administration at Iowa in the fall. Carol Ann will continue working toward her M.A. in this department.

JODI CHALLY and Jerry Rainey will be married in August in Algona, Iowa. Jerry will graduate in pharmacy in June. Their future plans are undecided.

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RICH KLICH will marry JOANNE MEGACZ on June 7, 1969 in Chicago. Joanne is currently a 6th grade teacher in Marion, Iowa and is planning to start her MA in Library Science at the University of Iowa.

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PAULINE LIPSON will be married on May 29 to Yehuda Tamari. Yehuda is a biomedical engineer and is presently doing research for Westinghouse.

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JUDY REED and Ken Beeck will be married June 7 in Danforth Chapel. They will be in Montana next year where Ken is stationed with the Air Force.

LINDA SHIPMAN and Denny Rottinghaus will be married June 28 in Mason City, Iowa. They will be in Sacramento, California where Denny is stationed with the Air Force.

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JAN VOGT and Lynn Richmond will be married August 8 in Grinnel, Iowa. Lynn is presently working on his M.A. in Clinical Psychology.

#### Departmental Research and Publications

SPEAKER AND LISTENER JUDGMENTS OF VOWEL LEVELS by K. L. Moll and G. E. Peterson appear in Phonetica, Vol. 19, pp. 104-117 (1969).

EVALUATION OF VELOPHARYNGEAL FUNCTION IN DYSARTHRIA by Ronald Netsell appeared in the Journal of Speech and Hearing Disorders, Vol. 34, No. 2, 113-122. May. 1969. MANAGEMENT OF VELOPHARYNGEAL DYSFUNCTION IN CEREBRAL PALSY by James C. Hardy, Ronald Netsell, James W. Schweiger, and Hughlett L. Morris appeared in the <u>Journal</u> of Speech and Hearing Disorders, Vol. 34, No. 2, 123-137, May, 1969.

RELATIONSHIPS OF SELECTED PHYSIOLOGICAL VARIABLES TO SPEECH DEFECTIVENESS OF ATHETOID AND SPASTIC CEREBRAL PALSIED CHILDREN by Ann Smit (M.A. thesis, June, 1969): The present study was designed to examine relationships between Judged Speech Defectiveness and 13 selected speech physiology parameters in a group of 17 athetoid and 14 spastic quadriplegic cerebral palsied children and to investigate systematic differences among those 13 variables among certain additional respiratory function variables. The mean age of the subjects was 12 years, 1 month; they must have had normal hearing; and they were able to perform all tasks required.

A 15-second tape recording of each subject's connected speech was rated by 20 judges on severity of speech defectiveness using a magnitude estimation procedure. Possible systematic differences between variables for the total group and among the spastic and athetoid subgroups were determined using ttests. Simple correlations were obtained to show relationships between 13 of the physiological variables and JSD for the total group and the two subgroups. The JSD rating values were further used as the dependent variable in a series of multiple correlation analyses for the total group of subjects, with the 13 variables divided into the following subgroups: (1) variables related to phonation; (2) rates of repetition of CV syllables; (3) cubic centimeters of air expired per syllable during repetition of CV syllables; and (4) percentages of Actual Speaking Range expired per syllable during repetition of CV syllables.

Using the results, a Speech Physiology Index (SPI) was derived for each child. The relationship of the SPI to Judged Speech Defectiveness was determined by simple correlation analysis for the total group and for the athetoid and spastic quadriplegic subgroups.

Based on the results, the following tentative conclusions are offered with respect to speech problems of children with athetoid and spastic quadriplegia:

- 1. The primary contributor to speech production problems in this population is neuromuscular involvement of musculatures of the various systems that contribute to speech generation.
- 2. Neural nets underlying speech and nonspeech movements of the articulators are dissimilar, and therefore evaluation and therapy techniques that utilize primarily nonspeech movements of the articulators are inappropriate.
- 3. Ability to repeat  $/\Lambda$  / at a rate of at least one  $/\Lambda$  / per second may be an indicator of physiological capability for at least moderately intelligible speech.
- 4. The duration that  $/\Lambda /$  can be prolonged has no significant relationship to speech problems.
- 5. Indices of physiological variables may eventually be determined for the general population of cerebral palsied children that will lead to more efficient habilitation of their speech problems.
- 6. For more mildly involved spastic quadriplegic children, speech production problems may be related primarily to respiratory function but for the athetoid children, speech production problems are less contributory to speech deficiencies than has been assumed.
- 7. Since athetoids and spastic quadriplegics may have different speech physiology problems, further studies of such problems in cerebral palsied persons ought to avoid grouping the two populations together for study.

## Editorial

Legislation relating to the licensing and regulation of hearing aid dealers is pending in both houses of the 1969 session of the Iowa General Assembly. Although these bills are aimed at the practices of an occupational group different from our own, we should be interested in the provisions of such legislation. The ultimate purpose of licensing is the protection of the public from fraudulent and unethical practices. The people who should be protected the most by the licensing and regulation of hearing aid dealers are those who are anxious for help with their hearing problems. This should be reason enough for those of us who are in speech pathology and audiology to be interested in such legislation. In addition, we must be aware that the provisions of any licensing bill for hearing aid dealers can well have a direct effect upon our professional activities and our relationships with other professions.

The general question of whether we should support or oppose the principle of licensing legislation is, for practical purposes, immaterial at this time. More than a dozen states already have such acts in force and a host of states now have such legislation pending. The inevitability of licensing for hearing aid dealers is with us. We now must address ourselves to the development of the most beneficial legislation which is possible.

The most effective process for the development of legislation for licensing and regulating hearing aid dealers in the state of Iowa is through the cooperation of those groups and individuals who are most immediately concerned with the welfare of the citizens with hearing problems. In Iowa, these groups are the Iowa Hearing Aid Dealers Association, the Iowa Speech and Hearing Association, the Iowa Academy of Ophthalmology and Otolaryngology, the Committee on the Conservation of Hearing for the State of Iowa, and the Iowa State Medical Society. Ideally, I would hope that these groups can combine efforts and cooperate in presenting the most beneficial legislation.

As events have progressed this year, no such cooperative effort is possible during this legislative session. However, it is extremely doubtful that the existing bills will even be considered during this session. Thus, we have the opportunity for the above named groups to cooperate in the development of legislation for the next session.

Looking forward to next year, the Ad Hoc Committee for the Development of Hearing Aid Legislation is being formed for the purpose of developing and presenting an effective bill for the licensing and regulation of hearing aid dealers to the 1970 session of the Iowa General Assembly. Individuals who are interested in taking part in this endeavor are welcome to join in the efforts of this committee. Speak and act now or live with the results of your inactivity.

--Charles V. Anderson

## Alumni Notes

JULIA ANN ADAMS (GIBB) (M.A., 1965) who now resides in Columbia, South Carolina, has published an article "Delayed Language Development" in the May issue of J.S.H.R. The article is based upon work she had done with a mentally retarded child while she was a member of the Staff at S.S.C.C. here in Iowa City. Julia is presently working at the Columbia Speech and Hearing Center.

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CAROLYN MORRISON is presently working at the Summitt Hill Otolaryngology Clinic in Summitt Hill, New Jersey.

MARILYN MULLARKY (M.A.1967) will be leaving University Hospital, Department of Otolaryngology in the middle of June. She plans to go to New London-Groton, Connecticut where her husband will be a dental officer at the naval base dental clinic.

SUMIKO SASANUMA (Ph.D. 1968) is home in Japan and is presently working as a consultant to several clinics and institutes in an effort to use her training to the best advantage. In July she will take part in a lecture series on special education to be held in Tokyo and will speak on the topic "Clinical Services in Speech Pathology and Audiology in the USA."

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# June Graduates: M.A.

JANE BROGHAMMER and her husband will be going to the U.S. Marine Corps Center in San Diego, California.

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PAULINE LIPSON has accepted a position as a speech clinician at the Western Pennsylvania School for the Deaf.

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MARIANNE MARBURGER will be employed as a speech clinician in the Clinton public school system beginning in June.

CINDI MASON and Dave will be leaving Iowa City on August 8, 1969 for Fort Benjamin Harrison in Indianapolis, Indiana where Dave will spend nine weeks in Army Branch School.

MARY MILLS has accepted a position as audiologist for the Muscatine-Scott County School System.

ANN SMIT and her husband are tentatively planning to teach abroad for a couple of years in Turkey.

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LOIS SUTTON has accepted a position as clinical audiologist in University Hospital, Department of Otolaryngology.

<del>\* \* \*</del>

JILL THORSEN will be moving to Denver, Colorado where her husband, J.D., will be interning at Presbyterian Medical Center.

June Graduates: B.S. and B.A.

Virginia Gail Baltrus Mary Laraine Bowstead Virginia Ellen Currans Suzanne Ruth Dayton Ellen Virginia Dustman Gail Christine Geisinger Leslie Ann Hanau Margaret Beth Kennedy Denise Sue Miller Linda Sue Powell Judith Ann Reed Marlene Rae Ruhland Virginia Mary Sias Linda Lea Shipman Marsha Dawn Sullivan

## \*\*\*

A SINCERE NOTE OF THANKS AND APPRECIATION from the Newsletter staff to SHARON McCARE on her cheerful patience and efficient help with each issue. Sharon and her husband will be going to New York City in July where Rog will be working with the law firm of Sewert and Kissel.

# III

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# DEPARTMENT OF SPEECH PATHOLOGY AND AUDIOLOGY UNIVERSITY OF IOWA

Newsletter

## Vol. 2, No. 5, June 1969

The newsletter is circulated about the 20th of each month excluding January, August, and September. News items should be written out and either deposited in the newsletter box in the lounges or given to any of the following people: A. Compton, E. Conture, J. Gordon, L. Hanau, D. Miller, K. Monkhouse. For additional information, please see Arthur Compton or Douglas Miller.

Everyone in the department is encouraged to contribute any information which they consider to be of departmental interest. It is of special importance to get information concerning alumnae, since there is no systematic method for keeping in touch with our graduates.

# Department News and Announcements:

CONGRATULATIONS: James C. Hardy has been promoted to the rank of full professor.

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The first meeting of the STUDENT-FACULTY SEMINAR for the summer session 1969 is scheduled for June 26. The Seminar meets every Thursday from 3:30-5:30 p.m. in the auditorium of SHC. All students and faculty are expected to attend to find out the kinds of projects and research being conducted by fellow students and faculty.

Jane Collins will present her preliminary Ph.D. report on June 26. Her topic is "Primary Auditory Unit Response in Cats as a Function of Time: Effects of Stimulus Frequency and Intensity."

\*\*\*

HELP! Anyone looking for a roommate in Fall? There are a number of desperate (?) new students not relishing the thought of dorm life. If you know of anyone looking for a roommate for Fall, please leave the details in the newsletter box; i.e., your mailing address, when available, rent, address, etc. This information will then be mailed out to prospective graduate students who can then contact you for further information.

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HELP AGAIN! Has anyone seen any of the Peabody Kit cards lately? Despite a search and discover mission conducted by EK. and Co., they were unable to locate all of the cards (and other therapy materials). Please check your drawers, cupboards, corners, window sills--any new discoveries will be received with joy in the 120 module--no questions asked. CONGRATULATIONS: Hughlett L. Morris has been promoted to the rank of full professor.

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Knowledge is what you're left with after you've forgotten what you learnt....

# --Anon.

INFORMAL STUDENT SEMINAR: Meetings of the seminar will be continued for the summer if there is enough interest to support them. If you are interested in having one or two meetings this summer, sign up on the sheet in the student lounge. If you have a particular topic to suggest, contact Stan Hutton.

SUMMER RESIDENTIAL CLINIC: Forty-nine eager children arrived for the summer residential program June 22 and represent the following pathologies:

\*\*\*

Stuttering	11	Neuropath 4	•
Cleft Palate	11	Articulation 10	)
Hearing	12	Voice 1	•

Each day there will be approximately 150 hours of therapy given. Each morning a daily newsletter will be circulated, and if anyone has information of general interest to be included, please leave it in Jeff Knox's mail box in the student lounge. All Clinicians are urged to become active participants in the program by visiting the house and getting to know the children and counselors. The counselors at the DU house this year are: Larry and Judy Hedges, George Freeman, Veryl Kroon, Randy Kesterson, Mike Lewis, Tom O'Doud, Frankie Zwald, Marilyn Grable, and Mary Andre.

PSYCHOLINGUISTICS CONFERENCE: Attendance figures included approximately 200 people, 42 of which came from within the state excluding Iowa City and 55 from out-of-state. Out-of-state representation included Kansas, Illinois, Michigan, Minnesota, Missouri, Nebraska, Ohio, and Wisconsin.

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A DEPARTMENTAL PICNIC will be held July 12 (Saturday) at 5:00 p.m. at the City Park Shelter #3. \$1.00 for adults and 50¢ for children under twelve. Tickets are available from M. Seemuth, M. Watkinson, and C. Flowers.

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SUMMER SHC LIBRARY HOURS are 1:00-5:00 and 6:00-10:00 p.m. Monday through Thursday and 1:00-5:00 p.m. on Fridays and Saturdays.

## Professional Activities of Members in Department

DAVID J. LILLY attended the ASHA convention planning sessions that were held in Chicago on 15, 16, and 17 June. This year Dr. Lilly is serving as subcommittee chairman for the section of the ASHA convention that is concerned with "hearing-science." A total of fifty contributed papers were evaluated by this subcommittee. Forty of these papers have been accepted for presentation at the ASHA convention in Chicago on 12, 13, 14, and 15 November, 1969. Anyone wishing to see the tentative program for the convention or read summaries of papers submitted to the hearingscience subcommittee should contact Dr. Lilly.

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#### New Students and Staff

MARY BOWSTEAD was graduated Phi Beta Kappa with a B.A. from Iowa in June, 1969 and is working toward an M.A. in Audiology. Mary's husband, Tom, is a Med student.

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LANA BRICE is the new secretary in 125 SHC. During the summer her duties will be primarily with the summer clinic program, and beginning in the fall, she will be the secretary for Drs. Compton, Curtis, Morris, and Sherman. Lana is from Washington, Iowa and graduated from Washington High School in 1968.

MARY KAY BUELTMANN received her B.S. in 1966 from Marquette University and is working toward an M.A. in Speech Pathology. Her husband is a graduate student.

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JUDITH CALHOUN received her B.A. from the University of Iowa in 1968 and is working on an M.A. in Speech Pathology. Her husband, Gary, is in the Army.

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VIRGINIA CURRANS graduated from the University of Iowa in June, 1969 with a B.S. and is working toward an M.A. in Speech Pathology.

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SUZANNE DAYTON received her B.S. from Iowa in June,1969 and is working toward an M.A. in Speech Pathology. Sue is married and her husband works as a staff pharmacist at University Hospitals.

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ELLEN DUSTMAN received her B.S. from Iowa in June, 1969 and is working toward an M.A. degree in Speech Pathology.

LESLIE HANAU received her B.S. from the University of Iowa in June, 1969 and is working on an M.A. in Speech Pathology.

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DAVID J. KINSEY graduated with an A.B. from the University of Miami, Florida and is working toward an M.A. in Audiology. Prior to coming to Iowa he worked as the director of medical television at Hialeah Hospital, Hialeah, Florida and consultant, Medical and Educational television, South Florida Hospital Association.

\*\*\*

BEVERLY KRAMER received her B.A. from Wisconsin State University in January,1969 and is working toward an M.A. in Audiology. Beverly's husband, Dennis, is the manager of Benner Tea Co.

\*\*\*

META PHELPS is the new secretary for Drs. Anderson, Lilly, Small, and Wernick. Meta is from Lone Tree, Iowa. Her husband is a student in Physical Education.

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LINDA POWELL received her B.S. degree from Iowa in June, 1969 and is enrolled to work toward an M.A. in Speech Pathology.

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MARLENE RUHLAND received her B.S. from Iowa in June, 1969 and is working toward an M.A. in Speech Pathology.

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KAREN SCHADE graduated with a B.S. from the University of Iowa in June, 1969 and is working toward an M.A. in Speech Pathology. Karen did a senior honors thesis entitled "Speech Therapy with Mentally Retarded Children."

\*\*\*

SISTER ROSANNE SIEBERT received her B.A. in 1964 from Fontbonne College in St. Louis, Missouri and has since been working on her M.A. in Audiology during the summers. During the regular school year, she teaches first grade at St. Joseph's Institute for the deaf in St. Louis.

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LORRAINE SLOAN received her M.A. in Special Education from Northern State College in 1962. Lorraine is here for the summer on the profession improvement program in Speech Pathology. She has worked as an elementary teacher and as an instructor at Black Hills State College in Spearfish, South Dakota. Lorraine is the mother of four children and her husband is a rancher. COLLEEN STIRLING received her B.A. from Iowa and has since been going to school part time. She now plans to work full time toward an M.A. in Speech Pathology with emphasis on the public schools.

#### \*\*\*

MARY ELLEN VASILE received her B.S. in 1968 from Nazareth College, Rochester, New York and is now working toward an M.A. in Speech Pathology. Prior to coming to Iowa, Mary worked as a public school therapist in New Haven, Connecticut. Mary's husband is working toward a Ph.D. in Hospital Administration.

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## Editorial

In many ways Iowa City is an unreal place. The outside filters in to us wrapped in a textbook and classroom environment, participants in the all too ritualistic process of education. The 7 o'clock News and the Register are some links--tenuous ones at best. The streets are clean; there is space; the air is breathable. And with such freedom of movement, the self tends to be magnified; our concerns become increasingly prominent. The South Side of Chicago, Watts and Bedford Stuyvesant are just places out there somewhere.

In our self equation, an M.A. and a Ph.D. become tickets to attain our little green acre: a good position, a reasonable amount of recognition and professional status--enough to keep us busy, but not too much, not enough to callous our hands, not enough to complicate our lives with commitment.

A reaching out of the self is commitment. Social commitment is rooted in the belief that each of us lives in a very real world; a world of people with very real needs. In this context, reaching out involves involvement--the entering into a life, the fulfillment of needs to deflect the growth of an individual toward more constructive channels.

Needs are everywhere; however, the great bulk reside in our urban centers where the coming together of many problems seems to make any one of them more pressing. The skills that we are learning here do not exist in textbooks, laboratories, classrooms and therapy modules only. Though the writer, the researcher, and the teacher occupy positions vital for the discipline to remain intellectually viable, we are ultimately people--we are ultimately need-oriented. If our research, our teaching and our clinical services become ends in themselves or become means to achieve ego-advancement ends, our ethical responsibility as need-fulfilling people would be mishandled. Many of us, unfortunately, mishandle such responsibility.

To believe that the range of our efforts is bounded by the walls of the University, the clinic or the public school and that they are limited to "speech" is to focus in on a subarea of the totality of our function. Our concern is, or should be, with the community. And those communities having the greatest needs are the densely populated areas of the country where communication skills assume a profound importance in the struggle to attain economic self-sufficiency. In short, the cities must be invaded by an even greater body of professional people who are willing to reach out and become involved. We can take a larger role in such a movement or sit back doing enough to get by in our uncluttered and quite clean worlds. Those who seek after the comfortable way, those who choose to be involved in uninvolvement will become lost in private conversations of dangling talent, borders of superficial lives. Those who choose to jump in with both feet will be doing a job that is long since overdue.

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--anthony vincent staiano

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#### Professional Activities of Members in Department (continued)

DRS. MORRIS, SCHWEIGER, AND DEMJEN from the Oto Staff went to Comenius University, Bratislava, Czechoslovakia, May 29-June 18, to evaluate the results of a surgical procedure for cleft palate. This procedure is a modification of the Kilner-Wardill V-Y, in which the neurovascular bundle is severed. Dr. Demjen, who is the chief of plastic surgery at Comenius and now on visiting leave at Iowa, has been using the procedure since 1950. During their stay there, they examined approximately 100 patients (fifty, ages 12-13 years and fifty, ages 6-7 years). The data they obtained on articulation testing (in Slovak), samples of connected speech, lateral x-rays, and photographs were brought back to Iowa for analysis, and the results of the project will be reported in the near future.

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#### Alumni

LEE NOVAK (M.A., 1966) is working as the audiologist in the Massachusetts Eye, Ear, Nose and Throat Infirmary.

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ANNE COX (M.A., 1969) has taken a job in Sacramento, California at a school for cerebral palsied, deaf, and deaf-blind children.

#### \*\*\*

TED GLATTKE (Ph.D., 1967) stopped by the Department for a couple of days the first of this month while vacationing on a cross country trip for thirty days. Ted is enjoying his work at Stanford University.

# DEPARTMENT OF SPEECH PATHOLOGY AND AUDIOLOGY UNIVERSITY OF IOWA

Newsletter

# Vol. 2, No. 7, October 1969

The newsletter is circulated about the 20th of each month excluding January, August, and September. News items should be written out and either deposited in the newsletter box in the lounges or given to any of the following people: Lana Brice, A. Compton, E. Conture, L. Hanau, D. Miller, K. Monkhouse. For additional information, please see Arthur Compton or Douglas Miller.

Everyone in the department is encouraged to contribute any information which they consider to be of departmental interest. It is of special importance to get information concerning alumnae, since there is no systematic method for keeping in touch with our graduates.

## Departmental News and Announcements:

TRANSPORTATION TO THE ASHA CONVENTION: A number of Faculty are driving and have room for a couple of passengers, so if you want to travel inexpensively, it's for free. There is also a Civil War train that leaves from Iowa City for \$16.55 (round-trip). It leaves daily at 3:30 p.m., occasionally. But then, if you really want to have a gas, try the dome line out of Marion, at 7:50 a.m., Tuesday, (\$15.85 round trip), that is, if you like plush lounge cars etc.; you might even run into someone you know.

INFORMAL STUDENT SEMINAR: During the fall semester, 1967, the graduate students in the department revived the "Informal Student Seminars." The purpose of these meetings is to provide an opportunity for all students, graduate and undergraduate, to discuss topics of interest which are not usually included in formal course work, or are of controversial nature. Topics for discussion and a faculty member participant may be proposed by any student. The speaker decides on the nature and length of the presentation, and a question period is provided after the discussions. Coffee and snacks are generally available.

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The success of this informal seminar depends entirely on whether or not students are willing to submit topics and give their support and help. Meetings have included discussions of such topics as clinical training and the undergraudate and MA program, job hunting, clinical ethics, dispensing of hearing aids, learning disabilities, trends in the profession, clinical supervision, and research grants. Any topics related to professional matters in the field are acceptable, if a speaker and a meeting time can be arranged. Meetings are scheduled as topics are submitted. Please turn in your suggestions to either Sally Peterson or Stan Hutton.

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On September 19 and 20, DR. FRIEDRICH BRODNITZ presented two lectures on voice disorders and rehabilitation to the annual meeting of the Iowa Academy of Opthomology and Otolaryngology at the Ramada Inn. He discussed the treatment of vocal nodules and voice problems in adolescents. Speech pathology and audiology students and staff were invited and were well represented at the meetings.

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THE PAPERBACK LIBRARY has been set up in the departmental library. The books are arranged according to general interest areas: Science Fiction, Mystery, Novels and Fiction, Odds and Ends. This library is open for the use by anyone and is operating on the Honor System as follows: a reader brings in one or more books and deposits them in the appropriate sections of the collection. He is then entitled to remove from the shelves a number of books equal to the number of books he brought in. Only the number of books is to be taken into account, not the type. Anyone who has additional books to donate may put them on the appropriate shelf.

THE ALUMNI NEWSLETTER, a special yearly issue, will be sent to all alumni of this Department at the end of the month. This is the first year that such a newsletter has been distributed and is in response to requests from a great many Iowa alumni who are interested in "staying in contact" with their former alma-mater.

Faculty, Staff and students are reminded that CLINICAL STAFFINGS are held every Wednesday afternoon following the Wednesday morning Outpatient Evaluations. An appropriate room is posted by Wednesday Noon in the Graduate Student Lounge and on the bulletin board in the lobby. The time for the Staffing is from 1:00 to 3:00 p.m., but it is acceptable to stay for whatever amount of time is available. The discussions following each presentation are open, and this activity offers a good opportunity to ask questions, raise issues and gather clinical information.

SEPTEMBER 9, 9:30 a.m. - STAN: "Jim, why aren't you having a party Friday night"?

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JIM: "Well, I can't think of a reason why not, so you're all invited..." For those of you who didn't show, the party at Thelin's place was memorable. Where else these days could Ken Moll be seen sporting a turtle neck sweater,

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or Favors, Compton, and Reger simultaneously taking to the dance floor to the accompaniment of the Mommas and Poppas? Thanks to Jim for a great night, and for the chance to socialize with the new grad students.

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THE STUDENT-FACULTY RESEARCH SEMINAR met for the first time this semester on September 25, and Ray Kent presented a preliminary report, "Cinefluorographic-Spectograph Investigation of the Component Gestures in Lingual Articulation." On October 2, Arnold Small spoke on "A Test of the Place Theory of Pitch Perception," and Drs. Moll, Small and Wernick jointly talked about "Computer Usage in Speech and Hearing Research," on October 9. Future reports scheduled to date are:

October 16:	D. Nelson - "The Frequency Region of Maximum Temporary
	Threshold Shift Resulting from Two Levels of High
	Intensity, Low Frequency Octave-Band Noise"

- October 23: C. Flowers "A Cinefluorographic Analysis of Deglutition Patterns in Cleft Palate"
- October 30: K. Monkhouse "An Analysis of Restricted Utterances of Three-Year Old Head-Start Children"

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On September 5, 1969, a dinner was held at the Highlander Restaurant honoring DR. SCOTT REGER on the occasion of his birthday and his retirement from his position as Research Professor of Otolaryngology and Maxillofacial Surgery. The dinner was attended by about 100 people - current and former faculty members in both Speech Pathology and Otolaryngology, as well as former Otolaryngology residents. Brief speeches by Dr. Brian McCabe, Dr. Kenneth Moll, U.I. President Willard L. Boyd, and Dr. D. M. Liecle recalled Dr. Reger's contributions to the University and to the field of Audiology since he joined the Iowa Staff in 1931. Dr. Reger was presented a silver tray and two books on Japan. Although his official retirement began on July 1, Dr. Reger continues on a half-time research appointment in Otolaryngology.

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STUDENT COMMITTEES: During May of each year the graduate students elect new committee representatives. Theoretically, the new members chosen for the Departmental Graduate Committee, the Student Clinical Committee, and the Graduate Student Senate are a representative sample of the departmental graduate students; i.e., almost every major opinion-bias-interest-concern is represented by the elected students. However, there can only be a "representative" sample if the graduate students themselves take the time and effort involved to get the people elected who they feel are able and willing to speak for them. Also, these committees can serve as excellent avenues of student-faculty communication, but this is only true if all students are willing to take the initiative to bring problems to the committeemen in order to insure that the committees can be representative and serve their functions.

The following is a list of the committees and the elected representatives for 1969-70:

Departmental Graduate Committee: This committee deals with intradepartmental matters such as office assignments, social affairs, work assignments, research seminar, etc. Committeemen for '69-'70 are: Mary Bowstead, Doug Miller, Dave Nelson, and Jim Thelin.

Student Clinical Committee: This group concerns itself with clinical training procedureal problems that the students make known to the committeemen. Representatives for '69-'70: Carole Emrick, Ray Kent, Jeff Knox, and Kay Monkhouse.

Graduate Student Senate: The senate is made up of graduate students from every University department, and it convenes approximately once a month to deal with intra-University, University-community, and Universitynational concerns. Anyone interested in attending a meeting or who has any questions or suggestions with regard to the Senate should contact Ed Conture, student senator '69-'70, or Kay Monkhouse, senator alternate.

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VISITING LECTURE SERIES: Dr. Edward Garrett, New Mexico State University, will present a lecture "Behavioral Modification Techniques in Speech Pathology" on the evening of December 10.

# Professional Activites of Members in Department

DUANE C. SPRIESTERSBACH and HJGHLETT L. MORRIS attended a meeting in Chicago, October 6, 7, and 8, of the Joint Committee on Dentistry and Speech Pathology / Audiology. Spriestersbach is a member of the Joint Committee. Dr. Morris served as one of the four consultants asked to assist in the planning of three national conferences to be held in 1970, 1971, and 1972. The conferences will deal with problems in research training and management which are common to the two general areas of dentistry and speech pathology.

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DEAN WILLIAMS attended a seminar at the Allegheny County Schools, Special Services in Pittsburgh, Pa. and gave a lecture entitled "Elementary School: A Good Place to Do Stuttering Therapy." He was also a guest lecturer at Kansas State University on September 22, and spoke on "Stuttering: A Problem of Interaction."

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JAMES CURTIS attended the Annual Meeting of Board of Directors of Deafness, Speech and Hearing Publication, October 12-13, in Washington D.C. He also attended the Consultant-Examiner Conference of the North Central Association of Colleges and Secondary Schools (Commission of Colleges and Universities), Septebmer 30 - October 1, in Chicago, Illinois.

## New Students and Staff

TRACY ARONSON is the new clinical secretary at the main desk.

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MARY ELLEN BECKER is working toward an M.A. in speech pathology, with major interest in the area of language. She received her B.A. in June, 1969 from Marygrove College in Detroit.

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VIC BERRETT is working on a Ph.D. in audiology. Vic received his M.S. from Utah State University in March, 1969 and has worked as a consultant to the Idaho State Department of Health at the C.D.C. in Twin Falls, Idaho. Vic is married and has three children.

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BARBRA ESPEY is working toward her M.A. in speech pathology. She received her B.A. in Deaf Education from MacMurray College in 1966. Barbra has also worked as a teacher of hearing impaired at the American School for the Deaf for three years.

CYNTHIA FIX received her B.A. from Indiana University in 1966 with a major in Russian and is now working on a M.A. in speech pathology. Prior to coming to Iowa, Cynthia worked as a bilingual typist in the Department of Slavic Languages at Indiana University. Cynthia's husband is assistant professor in the Department of Physics and Astronomy.

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JUDITH HARRINGTON received her M.A. from Iowa in 1965 and has returned to work on her Ph.D. in speech pathology. For the past four years, Judy has been teaching in the Department of Speech at U.N.I. She has two children and her husband is on the faculty at U.N.I. in the Department of Psychology.

JEANNE HOLUB is working on a M.A. in speech pathology with major interest in language. She received her B.S. from Wisconsin State University in Oshkosh and worked in the public schools in Fairfield, California for a year.

TOSHIKO IIJIMA is working toward an M.A. in speech pathology. She received her B.A. in 1964 in special education at the Tokyo University of Education, and she completed her M.S. in psychology in 1967 at Waseda University in Japan. MARCIA KAISER received her B.A. in June, 1964 and is presently working toward an M.A. in speech pathology with a major interest in the area of language. She has worked in school systems in Texas and Iowa for the past few years. Marcia is married and her husband is working on a degree in the M.B.A. program.

JUDY KOLLAR is working toward an M.A. in speech pathology. Judy received her B.A. in May, 1969 from the College of St. Francis in Joliet, Illinois.

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CLAIRE LAUKHUF received her B.A. from Vanderbilt University in June, 1969 and is presently working on her M.A. in speech pathology.

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DENISE MILLER is working on an M.A. in speech pathology with a major interest in the area of language. She received her B.S. from Iowa in June, 1969.

JOYCE MUNSON is working toward an M.A. in speech pathology. Joyce received her B.A. from Yankton College in South Dakota in 1963. Her husband is a journalist and is working as the science editor for the U. of I. news service.

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GAYLE PHILLIPS is working toward her M.A. in speech pathology. She received her B.A. from Grinnell College this past May.

DONALD PRICE is working toward his M.A. in speech pathology. He received his B.A. in 1965 from the University of Montana. Don's wife, Mary, received her M.A. from Iowa in 1968, and is presently employed as a speech clinician at the Cerebral Palsy Center in Cedar Rapids.

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JOANNE SCHWARTZ received her E.A. from the University of Maryland this June and then worked for the summer with retarded children at the D.C. Children's Center. Joanne is presently working toward an M.A. in speech pathology with major interest in the area of language.

GINNY SIAS received her B.S. from the University of Iowa in 1969, and is presently working towards an M.A. in Speech Pathology.

MARSHA SULLIVAN received her B.A. from the University of Iowa, and is working towards an M.A. in speech pathology with a concentration in language. Marsha's husband is an interior designer.

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AARON THORNTON is working towards a Ph.D. in Audiology. He received his B.A. and M.A. degrees from the University of Northern Iowa and worked as a clinician in the Iowa Public School System. Aaron's wife is working in the auditing department at Sears.

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DONALD TRUBEY is working towards a Ph.D. in Speech Pathology with an emphasis in speech science. Don received his M.A. from the University of Oklahoma Medical Center and then worked as a clinician in St. Joseph, Missouri and as an instructor at North Western Missouri State College. Prior to coming here, Don was an assistant professor at New Mexico State University. Don is married and has three children. His wife Susanne is working as a correspondent for ACT.

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MILO WADDOUPS will receive his M.A. from the University of Utah in November. He is presently working toward a Ph.D. in speech pathology. Milo's wife, Marilyn, is teaching 6th grade.

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#### Departmental Research and Publications

KENNETH MESSER, one of our new graduate students, and Professor Narendar Soni, College of Dentistry, have completed for publication a report of an experiment in oral biology on determination of growth by tetracycline labelling in maxillae of guinea pigs.

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## Alumni Notes

CINDI MASON (M.A., 1969) and her husband will be in Yuma, Arizona, beginning October 23, probably for a period of nine months.

JACK MILLS (Ph.D., 1969) and his wife Jan (M.A., 1966) briefly visited Iowa City, October 3-5. They are expecting their first child in February, 1970.

\*\*\*

JIM LYNN (M.A., 1969) is serving as a clinical audiologist in the army at Fort McClillau, Alabama. His wife GERRI, (M.A., 1968) is teaching psychology at Jacksonville State College in Jacksonville, Alabama. Their address: 906 Pennsylvania Ave., Apt. #20, Jacksonville, Alabama.

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MARCIA HUNTER (M.A., 1968) is a clinical audiologist at Washington University Medical School, St. Louis, Missouri.

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SANDRA GALLATIN (M.A., 1969) is clinical audiologist at the Buffalo Hearing and Speech Center, Buffalo, New York.

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JULIE SNYDER (M.A., 1969) is clinical audiologist at the Eye and Ear Hospital, Pittsburgh, Pennsylvania.

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STEFFI RESNICK (M.A., 1969) is clinical audiologist at the St. Louis Hearing and Speech Center, St. Louis, Missouri.

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LOUIS BRIEN (Ph.D., 1959) visited Iowa City during August on her way to California where she is taking a new position. She had previously been on the staff at Western Reserve University.

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SUSAN WILDE (M.A., 1968) continues to be quite happy with her job at the Toledo, Ohio Speech and Hearing Center, especially now that they are about to move into an ultra-new center in downtown Toledo.

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JACK MILLS (Ph.D., 1968) visited Iowa City, October 3 to work on a manuscript with David Lilly and to see the Hawkeyes win the game on Saturday and that was the week they did.

# Social Announcements and Personals

TIMOTHY JOEL, son and fifth child (all boys!) of Shirley and Chuck Felling, was born on September 4, 1969.

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-9-

STEPHEN JOSEPH, son and second child of Sally and Bill Yovetich, was born on August 19, 1969.

\*\*\*

KATHY KRAMER (A4) is now Mrs. Michael Coyle as of September 1. Mike is a senior in the College of Law. Kathy will graduate in January.

#### \*\*\*

PAT WENZEL and FRED WESLEY were married on August 30. Pat is an undergraduate senior in speech pathology.

## DEPARTMENT OF SPEECH PATHOLOGY AND AUDIOLOGY UNIVERSITY OF IOWA

Newsletter

## Vol. 2, No. 6, July 1969

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Everyone in the department is encouraged to contribute any information which they consider to be of departmental interest. It is of special importance to get information concerning alumnae, since there is no systematic method for keeping in touch with our graduates.

#### Departmental News and Announcements:

SHC LIBRARY HOURS during the summer break will be 1:00-3:00 p.m. Monday through Friday. The building will be open from 7:00 a.m. to 5:00 p.m. on these days.

STUDENT-FACULTY RESEARCH SEMINAR: On July 3, Duane Van Demark and Penny Klocksiem gave a report on several children in the Summer Clinic, and on July 10, Lee Woods gave a presentation entitled, "Social Position and Speaking Competence of Stuttering Boys." Gloria Van Lue reported her project, "Békésy Types at Supra Threshold Levels" on July 17. Reports scheduled for the remainder of the summer and the first two weeks of Fall semester are as follows:

- July 24 D. Kuehn "Vowel Information Contained within Consonants: A Perceptual Study"
- July 31 R. Klich "Laryngeal Behavior during Changes in Vocal Frequency"
- Sept 18 D. Nelson "The Frequency Region of Maximum Temporary Threshold Shift Resulting from Two Levels of High-Intensity, Low-Frequency Octave-Band Noise"
- Sept 25 R. Kent "Cinefluorographic-Spectrograph Investigation of the Component Gestures in Lingual Articulation"

MIKE VALDEZ will be taking an assistantship in the Department of Engineering beginning this fall while he finishes his Ph.D.

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VISITING LECTURE SERIES: Dr. Gerald A. Studebaker, University of Oklahoma Medical Center, will give a public lecture in the Auditorium at SHC at 8:00 p.m., August 4, entitled "Some Principles of Artificial Head-Bone Calibration of Bone Conduction Vibrators." From 1:10 to 2:00 p.m. of that day, Dr. Studebaker will be in the Auditorium to hold an informal discussion about his work with masking in clinical audiometry. Departmental activities will be suspended during this time so that every one will have an opportunity to participate in or attend the discussion.

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ANY GRIPES, GRUMPS, COMPLAINTS OR FRUSTRATIONS OF A CLINICAL NATURE? See your local friendly clinical committee members: Carol Emrick, Kay Monkhouse, Jeff Knox, or Ray Kent.

CONGRATULATIONS to Doug Miller on passing Ph.D. comprehensive exams.

STUDENT HOUSING: Jay Melrose has received several requests for information regarding apartments or roommates from incoming students in the Fall. If you know of anyone looking for a roommate for Fall, please leave the details with Dr. Melrose; i.e., your mailing address, when available, rent, address, etc., and he will forward the information on to them.

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THANKS to all students in practicums this summer for retaining some semblance of order in 220G. The Reader's Digest graded readers are now arranged in piles according to level of difficulty. If you try to return these to their respective piles, the clinical committee (and other students) will love you--at least till the end of summer (and Kay M. up till August 3rd!).

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On July 10-11, a CONSULTANTS CONFERENCE was held in connection with a special project entitled: "Planning for a Regional Field Training Program in Speech Pathology and Audiology." This project is being directed by Kenneth L. Moll. Bette Spriestersbach is serving as the project coordinator. The consultant group invited to the campus consisted of Jean Anderson of the University of Indiana, Clark Starr of the University of Minnesota, and William Healey from the St. Louis (Mo.) County Special School District.

The group met with various members of the department faculty to discuss various aspects of utilizing non-university service facilities to provide concentrated clinical experiences for graduate students in Speech Pathology and Audiology.

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THE ANNUAL GRADUATE STUDENT DAY has been scheduled for Tuesday, September 9. This is the day prior to the beginning of registration for the fall semester. All graduate students and faculty will meet in the Auditorium for a general orientation meeting at 9:00 a.m. on that day. This meeting will be followed by a coffee hour in the waiting room and a building tour for new students. In the afternoon, new students will have scheduled appointments with their faculty advisors. In the evening there will be social gatherings at various faculty homes. It is hoped that we will get the new school year off to a good start by having everyone participate in the activities. Even with the temperature in the 90's plus the added benefits of a swimming meet in the background, the departmental picnic, held at City Park on July 12th, was enjoyed by one and all. Dietary delicacies included: hot dogs, hamburgers, potato salad, baked beans, and corn on the cob.

Special thanks to Jerry Carney and all others who planned, organized and helped at the picnic.

Recreational highlights included badminton and displays of dazzling volleyball proficiency by such people as Dr. "Hands" Hardy and "Tricky" Rich Klich.

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WOULD YOU BE INTERESTED?! Anyone who would be interested in joining a party to charter a bus and spending a Saturday this fall in Minneapolis and the Tyrone Guthrie Theater, please contact Doug Miller. Further notices will be made.

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THE INFORMAL STUDENT SEMINAR, which was discontinued during the summer, will begin meeting regularly fall semester.

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# Professional Activities of Members in Department

DEAN WILLIAMS attended the annual meeting of ABESPA, ETB, and P.S.B. in Bethesda, Maryland, July 21-26.

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ARTHUR COMPTON gave a lecture on Children's language development at Howard University in Washington, D.C. on July 2.

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## Social Announcements and Personals

CONGRATULATIONS to the William Yovetich family on their new addition, a new 6 oz. Siamese kitten. A subsequent announcement will be forthcoming.

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COLLEEN STIRLING and Louis Picek will be married August 30, 1969 in Fort Dodge, Iowa. Lou is a graduate student in Art. Ed.

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DANIEL ROGER, son and first child of Sharon McCabe, was born on

June 30, 1969. Sharon and her husband are now residing in New York City.

KANGAROO VOYAGE to Kay Monkhouse and her husband on their up and coming trip to Australia.

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EHUD YAIRI and JANIE GORDON plan to be married during the summer break.

Best wishes for a speedy recovery in time for graduation to SANDY

GALLATIN who is in the Student Infirmary for several days with a back strain.

### Departmental Research and Publications

ENVELOPE VERSUS MICROSTRUCTURE IN THE FUSION OF DICHOTIC SIGNALS by Earl D. Schubert and Joel Wernick appeared in the <u>Journal of the Acoustical</u> <u>Society of America</u>, Vol. 45, No. 6, June 1969, pp. 1525-1531.

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SOCIAL POSITION AND SPEAKING COMPETENCE OF THIRD-GRADE AND SIXTH-GRADE STUTTERING BOYS by Lee Woods (Ph.D. thesis, August, 1969): Forty-eight stuttering boys, evenly divided between grades three and six and mild and moderate/severe levels of stuttering severity were compared with 272 nonstuttering boys in grade three and 290 nonstuttering boys in grade six. Comparisons of stuttering and nonstuttering boys' social position and speaking competence ratings, as well as their self-estimations and degree of accuracy of self-estimations, were made in order to investigate the social environment of the stuttering boys and their awareness of that environment, and to determine the degree to which children were aware of stuttering behavior.

The results indicated that, in general, younger nonstuttering boys received more favorable social position ratings than did older nonstuttering boys. However, no significant differences were noted between speaking competence scores received for younger or older nonstuttering boys. On both social position and speaking competence dimensions, younger nonstuttering boys expected to receive more favorable scores and were less accurate in predicting their own scores than were the older nonstuttering boys.

No significant differences were found between stuttering boys, regardless of grade or stuttering severity level, on any of the measures used in this study.

Stuttering and nonstuttering boys of comparable grade levels expected to be rated similarly and were rated similarly for social position. In addition, no significant differences were noted between the accuracy with which stuttering and nonstuttering boys predicted their own social position ratings.

Speaking competence ratings and self-estimations of speaking competence ratings were significantly less favorable for stuttering than for nonstuttering boys, regardless of grade or stuttering severity level. Also, the sixth-grade stuttering boys were significantly less accurate than were the sixth-grade nonstuttering boys. This difference in accuracy was found only for magnitude of prediction error and never for direction of error.

The reasons given for unfavorable social position ratings of stuttering and nonstuttering boys were similar, but stuttering behavior was mentioned as a reason for over half of the unfavorable speaking competence ratings for stuttering boys and for about 4% of the unfavorable speaking competence ratings for nonstuttering boys.

Further analyses indicated that the social position of stuttering boys was no more influenced by unfavorable speaking competence ratings than was that of nonstuttering boys. It was also found that children did not necessarily give a stuttering boy an unfavorable social position rating when they gave him an unfavorable speaking competence rating.

Another aspect of the study indicated that teachers could predict fairly well the relative social position or speaking competence given stuttering boys by their peers. Speaking competence ratings of boys were apparently easier for the teachers to predict than were social position ratings. AN INVESTIGATION OF CERTAIN THERAPY INSTRUCTIONS INTENDED TO REDUCE NASALITY by Mary Ann Carpenter (Ph.D. thesis, August, 1969): The present study was designed to investigate the effectiveness of certain clinical procedures suggested for use with nasal speakers. This study specifically dealt with instructions to change pitch, to change loudness, and to change mouth opening. The effects of the instructions upon perceptual changes in nasality were studied for different subgroups of speakers categorized first according to presence or absence of a cleft palate, and secondly according to degree of perceived nasality habitually demonstrated. In addition, observations were also made of the immediate physiological changes resulting from these instructions which were associated with the changes in nasality.

Twenty adult nasal speakers, ten with cleft palate and ten without cleft palate, were selected for study. Each subject was trained to read a standard speech sample under the experimental instructions. When he was judged able to respond to the instructions consistently and appropriately, tape recordings and cinefluorographic films were made. A filmed and recorded sample of a subject's habitual performance was made prior to his performance of each set of instructions dealing with a particular parameter.

Thirty-five listeners made perceptual judgments of the recorded speech samples on a seven-point equal-appearing-intervals scale. Observations from the data revealed the following.

1. For both the total group of nasal speakers and each of the prespecified subgroups, the magnitudes of the changes in nasality demonstrated under the particular instructions were either equal to or less than the magnitude of the variation in perceived nasality among the appropriate three habitual readings.

2. Portions of the total group data were selected in a manner that increased the probability that the observed changes in nasality represented responses to the instructions rather than random behavioral variations. However, observations from this data were of limited value for predicting an individual's performance due to directional inconsistency between subjects for the changes in nasality which occurred under a particular instruction.

3. The only change which was directionally consistent for the selected individuals was a decrease in nasality under the instruction to lower pitch.

Analysis of the cinefluorographic films was limited under any one instruction to the speech sample for the individual who showed the greatest increase in judged degree of nasality and the speech sample for the individual who showed the greatest decrease in nasality. The only change in the cinefluorographic measures which was directionally consistent for all subjects within one of these subgroups was a reduction in velar constriction for the group who had shown the greatest decrease in nasality.

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A PERCEPTUAL-ACOUSTIC-PHYSIOLOGICAL STUDY OF SYLLABLE STRESS by Ronald Netsell (Ph.D. thesis, August, 1969): The primary purpose of this research was to investigate the physiological processes in production of perceived stress. As a secondary purpose, a selected set of acoustic parameters was studied to further delineate the acoustic correlates of stress.

Three adult males served as subjects. As they spoke a series of CVCV nonsense syllable pairs in the frame "A does," simultaneous recordings were made of (1) volume velocity of airflow from the vocal tract, (2) intraoral air pressure, (3) subglottal air pressure, and (4) muscle action potentials from the m. cricothyroideus. Parameters (1), (2) and (3) above, were used to compute continuous functions of articulatory and glottal resistances to airflow. Spectrograms were made from the audio recordings (obtained simultaneously with the above parameters) to allow analysis of amplitude, fundamental frequency of vocal fold vibration, and duration of phonetic segments. Finally, a panel of listeners rated the speech samples for the degree of stress of the CVCV test syllables. The aerodynamic, physiological and acoustic measures were analyzed, and results from selected test syllable pairs, that sampled the continuum of stress contrasts of the individual subjects, were presented.

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The acoustic results are summarized as follows:

1. Variations in fundamental frequency and vowel duration were the most consistent acoustic correlates of stress, i.e., regardless of the degree of stress contrast, both parameters were consistently greater for the syllable of greater stress.

2. Vowel amplitude, consonant duration, and interformant fill were consistently greater for the vowel of greater stress only when the stress contrasts were more than minimal.

The major findings that pertain to the physiological mechanisms responsible for stress generation were:

1. Muscle action potentials of the m. cricothyroideus were consistently greater for the vowels associated with the syllables of greater stress.

2. Rises in fundamental frequency were primarily responsible for lesser stress contrasts, and, the necessary laryngeal adjustments were made independent of the magnitudes of subglottal air pressure.

3. A subglottal air pressure increase consistently occurred with the vowel of greater stress in the more than minimal stress contrasts.

4. Greater stress contrasts were accompanied by additional increases in subglottal air pressure on the vowels of syllables of greater stress.

5. These subglottal air pressure increases appeared to be concentrated on the vowel segments only.

These results, in combination with previous research, suggest the following tentative conclusions:

1. Adjustments of the laryngeal musculature are primarily responsible for the fundamental frequency variations that are consistently associated with minimal stress contrasts.

2. For gradations in stronger stress contrasts, the respiratory, or sublaryngeal, system (as reflected in the subglottal air pressure variations) assumes a primary physiological role in generating stress contrasts.

3. The articulatory, or supralaryngeal, system participates in creating stress contrast, but that system's role is not as clear as the other two systems. It may be that the articulatory system contributes to a greater extent in the stronger stress contrasts.

4. Neuromotor commands are sent to the supralaryngeal, laryngeal, and sublaryngeal systems for stress contrasts. However, the extent to which those commands are manifest in peripheral activity appears to be a function of the degree of stress placed on the syllable.

5. Moreover, the contribution of these three systems to the generation of stress may vary somewhat for individual speakers. However, that contribution could be systematic along the continuum of stress production, and the relative contribution of each system may become apparent for all speakers for what might be called more than minimal stress productions.

#### Editorial

THE HANDLING OF LABORATORY RATS AND OTHER EXPERIMENTAL ANIMALS: We would like to make the following suggestions to experimenters, present and future: Pre-experimental preparation:

1. The experimenter should have taken part in his own experimental task in order to share the experiences which his subjects will have.

2. All equipment (if any is used) should be checked out and in proper working condition. A strict protocol should be followed so that "little details" become routine. Time-consuming "extra steps" may alienate the subjects -- they're also busy people.

Subject selection and care:

1. The experimenter should approach the prospective subjects gently and courteously. Heed the clinical axiom which states that an empathetic attitude will secure the cooperation of the subject.

2. The experimenter should inform the subjects of the nature of the task involved, and provide a reasonable estimation of the time involved.

3. Rewarding experimental animals is an important aspect of any experiment. Rats get food pellets. For our purposes, we recommend that the experimenter should try to arrange for excusing the subjects from previous commitments for which they have been selected. There is also the political technique known as "log-rolling" which is used often with mutually beneficial results.

The above are only a few of many suggestions and factors which should be considered.

> Jeffrey A. Knox Richard Klich

#### Alumni

GERRI KAHN LYNN (M.A., 1968) has accepted a position at Jacksonville State College, Jacksonville, Alabama where she will teach three psychology courses.

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JAMES M. LYNN (M.A., 1969) is stationed at Ft. McClellan, Alabama and has been promoted to Pfc. The Lynns are living at 906 Quintard, Anniston, Alabama. \*\*\*

FRANK SILVERMAN (Ph.D., 1966) and his wife Ellen spent a week in Iowa City while Ellen was completing the final stages of her doctoral study with Dean Williams.

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ANN WILLUMSEN LORSON (M.A., 1967) and her husband Ed have returned to Iowa City and plan to remain here for three years while Ed completes his residency in Oral Surgery. Ann's professional plans while she remains in Iowa City are still tentative. The Lorsons had a son, Christian, their first child, on May 1, 1969.

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JAN GESAS (M.A., 1969) has recently been promoted to the head of the Speech Pathology Services at the Lovelace Clinic in Albuquerque, New Mexico, where she has been working since her graduation last winter. Her duties include community education in speech and hearing, and much of her time is spent working on a nearby Indian reservation.

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If you listen very carefully, all kinds of little gems are issuing forth from "the mouths of babes" around the clinic these days. In room seven: "I tip-toed up to the bird nest on my bike .... "

## August Graduates: Ph.D.

MARY A. CARPENTER will continue in her present clinical and teaching position as an assistant professor at Indiana University.

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RONALD NETSELL has accepted a position as assistant professor in the Department of Communicative Disorders at the University of Wisconsin.

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LEE WOODS will continue on his present appointment with the Stuttering Research project for the next year.

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## August Graduates: M.A.

MARILYN EARLEY has accepted a position with the Clarksville Public School System in Clarksville, Indiana.

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SANDRA GALLATIN'S, JUDITH JOHNSON'S and STEFFI RESNICK'S plans are indefinite at this time.

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EULA RUSSELL has taken a position with the Public Schools in Iowa and will be working in West Branch, Solon, and Lisbon.

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JULIE ANN SNYDER has accepted a position as clinical audiologist at the Eye and Ear Hospital in Pittsburgh, Pennsylvania.

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JANET VOGT has taken a position with Scott-Muscatine County School System here in Iowa.

Department of Speech Pathology and Audiology University of Iowa

> Newsletter (Special Alumni Issue)

## Vol. 2, No. 8, November, 1969

With the opening of the Wendell Johnson Speech and Hearing Center two years ago, the Department of Speech Pathology and Audiology initiated a monthly departmental newsletter as a means of keeping everyone in the department and the several University affiliated service areas informed of the many activities taking place within the speech and hearing complex. During the past year or so, we have had numerous requests from alumni who were interested in receiving copies of these newsletters as a means of "staying in contact" with their former alma mater. However, because much of the content of the monthly newsletters is highly specific to the daily operations of the training, service, and research programs, we have elected to meet these requests in a slightly different, but hopefully more meaningful way: a special alumni newsletter, which will include activities and events of the year that are of more general interest. If the response to this first issue is favorable, the aluni edition of the newsletter will be continued on a yearly basis in the future and will be mailed to all alumni just prior to American Speech and Hearing Convention. We are also particularly interested in including as much information as possible about our alumni, not only in the alumni issue, but in our monthly ones as well. Unfortunately, this is the most difficult information to obtain, because we have no systematic way of keeping in touch with our graduates. Consequently, we will more than welcome any information you wish to send us about yourself or fellow alumni during the coming year. A tear-sheet on the back page of this issue is included for your encouragement and convenience.

## Convention Announcement

The Iowa Open House is scheduled for Thursday evening, November 13, in the Williford Room, Parlor B, Conrad Hilton Hotel, from 6:00 to 8:00 p.m. There will be a cash bar and everyone is cordially invited.

## Alumni Notes

JULIA ANN GIBB ADAMS (M.A., 1965) is now residing in Columbia, South Carolina and is working at the Columbia Speech and Hearing Center.

LOIS BRIEN (Ph.D., 1959) visited Iowa City during August on her way to California where she is taking a new position. She had previously been on the staff at Western Reserve University.

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JULES CANAHL (Ph.D., 1967) and his wife KAY DUNN CANAHL (Ph.D., 1963) visited Iowa City in July. Jules is a research audiologist with the V.A. in Atlanta, and Kay is teaching at Emory.

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ANNE COX (M.A., 1969) has taken a job in Sacramento, California at a school for cerebral palsied, deaf, and deaf-blind children.

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SANDRA GALLATIN (M.A., 1969) is clinical audiologist at the Buffalo Speech and Hearing Center, Buffalo, New York.

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JAN GESAS (M.A., 1969) has recently been promoted to the head of the Speech Pathology Services at the Lovelace Clinic in Albuquerque, New Mexico, where she has been working since her graduation last winter. Her duties include community education in speech and hearing, and much of her time is spent working on a nearby Indian reservation.

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TED GLATTKE (Ph.D., 1967) stopped by the Department for a couple of days the first of June while vacationing on a cross country trip for thirty days. Ted is enjoying his work at Stanford University.

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MARCIA HUNTER (M.A., 1968) is a clinical audiologist at Washington University Medical School, St. Louis, Missouri.

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LYLE LLOYD (Ph.D., 1965) has joined the staff of the National Institute of Child Health and Human Development as executive secretary of the Mental Retardation Research and Training Committee. ANN WILLUMSEN LORSON (M.A., 1967) and her husband Ed have returned to Iowa City and plan to remain here for three years while Ed completes his residency in Oral Surgery. Ann's professional plans while she remains in Iowa City are still tentative. The Lorsons had a son, Christian, their first child, on May 1, 1969.

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JIM LYNN (M.A., 1969) is serving as an Optician (EENT Clinic) in the army at Fort McClillan, Alabama. His wife GERRI KAHN LYNN (M.A., 1968) is teaching psychology at Jacksonville State College in Jacksonville, Alabama.

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CINDI MASON (M.A., 1969) and her husband are to be in Yuma, Arizona, for a period of approximately nine months.

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MARK T. McDOWALL (M.A., 1967) has passed his Ph.D. comprehensive exams at the University of Oklahoma Medical Center and entered the U.S. Army on April 7, 1969. Mark was at Ft. Sam Houston, Texas for eight weeks' training before going to San Francisco for duty as an audiologist.

JACK MILLS (Ph.D., 1969) visited Iowa City, October 3 to work on a manuscript with David Lilly and to see the Hawkeyes win the game on Saturday. Jack and his wife JAN FLAHIVE MILLS (M.A., 1966) are expecting their first child in February.

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CAROLYN MORRISON (M.A., 1966) is presently working at the Summit Hill Otolaryngology Clinic in Summit Hill, New Jersey.

MARILYN MULLARKY (M.A., 1967) left the University Hospital, Department of Otolaryngology in the middle of June. She is now in New London Gronton, Connecticut where her husband is a dental officer at the naval base dental clinic.

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LEE NOVAK (M.A., 1966) is working as the audiologist in the Massachusetts Eye, Ear, Nose and Throat Infirmary.

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STEFFI RESNICK (M.A., 1969) is a clinical audiologist at the St. Louis Hearing and Speech Center, St. Louis, Missouri. SUMIKO SASANUMA (Ph.D., 1968) is home in Japan and is presently working as a consultant to several clinics and institutes in an effort to use her training to the best advantage. In July she will take part in a lecture series on special education to be held in Tokyo and will speak on the topic "Clinical Services in Speech Pathology and Audiology in the USA".

FRANK SILVERMAN (Ph.D., 1966) and his wife ELLEN LOEBEL SILVERMAN (M.A., 1967) spent a week in Iowa City while Ellen was completing the final stages of her doctoral study with Dean Williams.

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JEANNE SMITH (M.A., 1937) has recently been named as a Fellow of the American Speech and Hearing Association.

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JULIE SNYDER (M.A., 1969) is clinical audiologist at the Eye and Ear Hospital, Pittsburgh, Pennsylvania.

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SUSAN WILDE (M.A., 1968) continues to be quite happy with her job at the Toledo, Ohio Speech and Hearing Center, especially now that they are about to move into an ultra-new center in downtown Toledo.

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## Departmental Notes

INFORMAL STUDENT SEMINAR: During the fall semester, 1967, the graduate students in the department revived the "Informal Seminars". The purpose of these meetings is to provide an opportunity for all students, graduate and undergraduate, to discuss topics of interest which are not usually included in formal course work, or are of controversial nature. Meetings have included discussions of such topics as clinical training and the undergraduate and M.A. program, job hunting, clinical ethics, dispensing of hearing aids, learning disabilities, trends in the profession, clinical supervision, and research grants. Topics for discussion and a faculty member participant may be proposed by any student. The speaker decides on the nature and length of the presentation, and a question period is provided after the discussions. Coffee and snacks are generally available.

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A dinner was held at the Highlander Restaurant honoring DR. SCOTT REGER on the occasion of his birthday and his retirement from his position as Research Professor of Otolaryngology and Maxillofacial Surgery. The dinner was attended by about 100 people - current and former faculty members in both Speech Pathology and Otolaryngology, as well as former Otolaryngology residents. Brief speeches by Dr. Brian McCabe, Dr. Denneth Moll, U.I. President Willard L. Boyd, and Dr. D.M. Lierle recalled Dr. Reger's contributions to the University and to the field of Audiology since he joined the Iowa Staff in 1931. Dr. Reger was presented a silver tray and two books on Japan. Although his official retirement began on July 1, Dr. Reger continues on a half-time research appointment in Otolaryngology.

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STUDENT-FACULTY RESEARCH SEMINAR: This seminar, a revived and revised version of that held in earlier years, meets regularly each Thursday afternoon and has turned out to be one of the most active and stimulating programs of the Department. The general purpose of the seminar is to provide for better communication between and within faculty and student groups concerning research in progress in a variety of areas. It is considered to be an integral part of the Department's research training program. More specifically, the seminar is designed to achieve the following goals: 1) provide an introduction to, or a better understanding of, the methodologies, strategies, problems, philosophies, etc. involved in research in various areas; 2) provide constructive evaluation and discussion of planned, ongoing or completed research projects of students and faculty; and 3) provide experiences in presenting research reports and in answering questions related to such reports.

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THE ANNUAL DEPARTMENTAL GRADUATE STUDENT DAY was held on Tuesday, September 9, the day prior to the beginning of registration for the fall semester. All graduate students and faculty met in the Auditorium for a general orientation meeting at 9:00 a.m. The meeting was followed by a coffee hour in the waiting room and a building tour for new students. In the afternoon new students had scheduled appointments with their faculty advisors, and that evening social gatherings including all graduate students, faculty, and staff members were held at various faculty homes.

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THE EDUCATION AND TRAINING PROGRAM of the Department has been approved for (E.T.B.) accreditation in the areas of both Speech Pathology and Audiology by the Board of Directors of the American Boards of Examiners in Speech Pathology and Audiology upon the recommendation of the Education and Training Board. The accreditation is for a five-year period.

PLANNING FOR A REGIONAL FIELD TRAINING PROJECT IN SPEECH PATHOLOGY AND AUDIOLOGY, (Kenneth L. Moll, director and Bette R. Spriestersbach, project coordinator): The purpose of this project is to engage in planning concerning methods by which a field training program for Speech Pathologists and Audiologists might be implemented and evaluated in conjunction with Iowa health and education agencies. The latter groups are developing regional programs, notably Iowa Regional Medical Programs and Regional Educational Service Agencies, which exemplify changing concepts in delivery of service. These hold promise of an increased interdisciplinary approach to needs of

## Page 6

a great variety of individuals and more efficient use of professional skills outside traditional service centers. The project provides a means of participation in planning of such systems for service to individuals with communication problems, student practicum experience in such settings and ongoing evaluation of both service and training aspects of such programs.

A series of VOICE CLINICS has been instituted which are sponsored jointly by the Department of Speech Pathology and Audiology and the Department of Otolaryngology and Maxillofacial Surgery. The clinics are held on the first Wednesday of every month from 1:00 to 2:00 p.m. The general purpose of the clinics is to provide interdisciplinary planning for individuals with voice problems, particularly those who may need voice therapy.

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CONTINUING EDUCATION FOR SPEECH AND HEARING CLINICIANS: At present, the speech and hearing clinicians who are employed in the State of Iowa in the schools, in county programs, or in community clinics, often find themselves relatively isolated. This isolation is sometimes geographical, but it might also be professional, since there are few regularly scheduled activities designed to bring the clinicians together to discuss mutual problems or to increase professional "know-how." Very often the clinician travels from school to school and is not afforded the opportunity to become an integral part of a given professional community such as is open to a classroom teacher in a given building of a school system. Such professional isolation has often been cited by clinicians as a reason for leaving employment in Iowa and seeking positions in larger communities.

Recently, the Extension Division, The Graduate College and the Department of Speech Pathology and Audiology of the University of Iowa instituted a new program of continuing education for speech and hearing clinicians in the state. Case-study meetings are held throughout the State (20 locations) using TV Tape presentations to stimulate discussion, analysis and management decisions. Opportunities are thus established for additional contact between clinicians in a given geographical area. These meetings encourage professional growth and development in the informal atmosphere of a study group.

METHOD

- a. TV tapes are prepared to demonstrate the "work-ups" of one or two clients whose speech and/or hearing problems may be of particular interest to the clinicians.
- b. Pertinent data are prepared in the form of a case history which is written up and duplicated for distribution at (or prior to) the meeting.
- c. A suitable site is arranged which is centrally located in a given geographical area.
- d. Invitations are sent out to speech and hearing clinicians in that area explaining the program and requesting a response concerning intent to attend.
- e. One or two case studies are solicited from those who indicate that they will attend.

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- f. At the meeting, one or two members of the Department of Speech Pathology and Audiology start the proceedings with the (TV taped) presentations and lead the discussion stemming from the presentation.
- g. The presentation by the local clinician(s) and further discussion.
- h. Time is also allotted for open discussion of general items dealing with professional problems and potential solutions. It is hoped that these discussions will provide needed feedback pointing up present needs and perhaps new and better ways of coping with the communication problems of the children and adults of the State of Iowa.

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VISITING LECTURER SERIES: In 1968 the Department initiated a visiting lecturer program of which speakers and topics during 1968-69 included:

Mary Jayne Capps, "The Effect of Lesions of the Efferent Auditory Pathway"

Eugene McDonald, "Articulation: A New Look"

George von Bekesy, "Lateral Inhibition in Sense Organs"

- Margaret Byrne, "Language Deficiencies of Environmentally Disadvantaged Children: Implications for Management"
- Gerald A. Studebaker, "Some Principles of Artificial Head-Bone Calibration of Bone Conduction Vibrators"

Edward Garrett, the first speaker of this year, will present a lecture entitled "Behavioral Modification Techniques in Speech Pathology" on the evening of December 10.

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FRIEDRICH BRODNITZ presented two lectures on voice disorders and rehabilitation to the annual meeting of the Iowa Academy of Opthamology and Otolaryngology in Iowa City on September 19-20, 1969. He discussed the treatment of vocal nodules and voice problems in adolescents.

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Training Program and Physical Facilities of the Department: The following brief description incorporates some of the major changes initiated in the Department in recent years.

The current faculty and professional staff in the Department of Speech Pathology and Audiology include: Charles Anderson, Carl Betts, Jane Collins, Arthur J. Compton, James Curtis, Marie Emge, Margaret Evans, Aaron Favors, James Hardy, Herbert Jordan, Penelope Klocksiem, Breta Lawshe, David Lilly, Jay Melrose, Kenneth Moll, Hughlett Morris, Dorothy Sherman, Arnold Small, Duane Spriestersbach, Duane Van Demark, Dean Williams, Joel Wernick, Charles Lee Woods, and William Yovetich. There are presently approximately 80 undergraduates in the training program and 75 graduates, 50 of whom are working on M.A. degrees and 25 on doctoral programs. Last year the Department awarded 27 B.S. and B.A. degrees, 27 M.A.'s and 7 Ph.D.'s.

The training program, which was awarded E.T.B. certification this year, has been substantially revised during the past several years to improve the quality of academic and clinical training. The undergraduate program is geared primarily to the basic processes of normal speech/language and hearing, and also entails substantial work in the mathematical, biological, and physical sciences. Throughout this program, however, students are also exposed (through courses, specially arranged lectures, observations, and individual projects with faculty advisors) to the sorts of clinical problems they will be working with in practicum assignments during their M.A. program. Students may elect to take either a professional M.A. program or a thesis program. In either case, however, students are expected to meet the requirements for A.S.H.A. certification unless they are taking a special degree program.

In addition to the clinical training provided within the Department, students also receive clinical experience in the Departments of Otolaryngology and Pediatrics in the University Hospital, the V.A. Hospital, the Hospital School (for the physically handicapped), the Child Development Clinic, Pine School (for the mentally retarded), and the Iowa City School System.

All full-time graduate students in the Department choose rotating training assignments each semester which are designed to provide a wide range of experiences in in-depth clinical work, teaching and research. These assignments are independent of financial support; although most students in the program do receive stipends, these are not given for services performed but rather are grants-in-aid to support their graduate education.

In the Fall of 1967 the Department moved into the new Wendell Johnson Speech and Hearing Center. The main clinical facilities include: 16 individual therapy rooms, 10 group therapy rooms, and a counseling lounge; in addition, there are 11 rooms set up for speech, language, and medical diagnoses and a diagnostic audiology suite containing three two-room and one one-room I.A.C. booths. The research facilities include: Psychoacoustics laboratory, animal physiology laboratory, experimental audiology laboratory, respiratory physiology laboratory, acoustic phonetics laboratory, physiological phonetics laboratory, programmed learning laboratory, listening laboratory classrooms, mechanical and electronics shops, an auditorium with a 175 person seating capacity, and office and study carrel space for all graduate students.

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THE SUMMER RESIDENTIAL PROGRAM for 1969 was changed considerably from former summers. The changes included having a staff of ten full-time counselors living in with the children so that there was one counselor for every five or six children. The forty-nine children in the Program were divided into small "families," and it was felt that in this way they became better acquainted with each other and the counselors had a better opportunity to know their particular children. The counselors were chosen because they had something special to offer the program, such as experience in music, arts and crafts, recreation and art, and/or because they were in the Speech Pathology and Audiology Program and wanted to gain this experience. Each "family" planned its own recreational activities either for its own group or with one or more other groups, depending on the nature of the activity. Some all-camp activities were also planned, but as much independent action as possible was allowed.

The forty-nine children enrolled in the program represented a wide variety of pathology areas. Each child received from three to four hours of therapy each day (approximately 175 scheduled-hours daily five days a week for six weeks). Therapy sessions lasted approximately forty minutes, and each session was followed by an immediate ten minute conference between the student clinician (and observers) and the clinical supervisor. Some clinical hours were also arranged in individual and group activities at the residential house in recreation activities and in informal meetings with the children. This allowed the student clinicians to get to know the children better in settings other than the regular therapy sessions.

The feedback from children in the program, from their parents, from physicians, nurses, social workers, speech and hearing clinicians, special education personnel, and from our own evaluations of the benefits to the children and to our students, all seems to point up the value of continuing the Summer Residential Program with constant experimentation to attempt to achieve and maintain a high degree of excellence.

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COMPUTER FACILITIES have recently been added to the Department with the aid of support from N.I.H. The operation and possible uses of this facility are being guided by a faculty committee, and the staff has included at various times an engineer, two part-time programmers, and a computer operator. The computer itself is an Interdata, Model 4 with the following features: 16 channels of analog to digital conversion, cathode ray oscilloscope output, and X-Y plotter output. The equipment is presently used 1) to control stimuli and analyze responses in physiological, acoustic, and psychoacoustic research, 2) to analyze cinefluorographic tracings, 3) to process EMG data gathered during speech production, and 4) to control a speech synthesizer.

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This year the Department held a conference, "PSYCHOLINGUISTIC APPROACHES TO THE STUDY OF LANGUAGE DEVELOPMENT AND DISORDERS," June 20-21. Delores D. Kluppel spoke on "Use of Psycholinguistic Data in the Diagnoses and Treatment of Language Problems," Laura L. Lee presented a paper "Vocabulary Growth and Cognitive Development in Children,: and Arthur J. Compton gave a paper on "Phonological Development and Disorders in Children." The Conference was well received and proved to stimulate much interest and discussion. Approximately 300 people attended, with about 100 coming from outside the State of Iowa.

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A manuscript of a book tracing the History of Speech Pathology and Audiology at the University of Iowa and the impact of the developing Iowa Program on the profession has recently been completed. The manuscript was compiled and written by Dorothy Moeller. Publication plans for the book are still indefinite at this time.

## Departmental Research: Ongoing and Completed

AUDIOMETRIC PROFILES IN MENIERES DISEASE. Charles Anderson, David Huffman, and Brian McCabe. (published in Otologic Clinics of North America)

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STRUCTURAL CORRELATES OF NASALITY. Jerry Carney. (completed Ph.D. thesis)

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AN INVESTIGATION OF CERTAIN THERAPY INSTRUCTIONS INTENDED TO REDUCE NASALITY. Mary Ann Carpenter. (completed Ph.D. thesis)

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EXERCISES IN CHILD LANGUAGE ACQUISITION. Arthur J. Compton. (workbook manuscript in progress)

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GENERATIVE ANALYSES OF CHILDREN'S PHONOLOGICAL DISORDERS. Arthur J. Compton. (unpublished paper)

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THE ACQUISITION OF ELIPTICAL SENTENCES IN CHILDREN. Arthur J. Compton. (in progress)

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MODIFICATION OF STUTTERING BY MEANS OF RESPONSE CONTINGENT AUDITORY PLAYBACK OF FLUENT AND DISFLUENT SPEECH. Edward Conture. (completed M.A. project)

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COARTICULATION OF LIP ROUNDING. Raymond Daniloff and Kenneth Moll. (published in J.S.H.R.)

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RELATIONSHIPS AMONG INTELLIGENCE, SPEECH PROFICIENCY, AND HEARING SENSITIVITY IN CHILDREN WITH CLEFT PALATE. Robert E. Estes, and Hughlett L. Morris. (in progress)

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EFFECT OF ANESTHESIA UPON AUDITORY BONE CONDUCTION THRESHOLDS. Aaron Favors. (completed Ph.D. thesis) A CINEFLUOROGRAPHIC ANALYSIS OF DEGLUTITION PATTERNS IN CLEFT PALATE. Charles Flowers. (M.A. study in progress)

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THRESHOLD OF THE ACOUSTIC REFLEX FOR PURE TONES. Richard Franzen. (Ph.D. study in progress)

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RELIABILITY OF JUDGMENT ABOUT THE ORAL MECHANISM. Stephen Giles. (completed M.A. thesis)

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ANTICIPATION AND STUTTERING: A PUPILLOGRAPHIC STUDY. Kenneth C. Gray and Dean Williams. (to appear in J.S.H.R.)

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ELECTRONIC INTEGRATOR FOR MEASUREMENT OF PARTITIONS OF THE LUNG VOLUME. James C. Hardy and Terry D. Edmonds. (published in J.S.H.R.)

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MANAGEMENT OF VELOPHARYNGEAL DYSFUNCTION IN CEREBRAL PALSY. James C. Hardy, Ronald Netsell, James Schweiger, and Hughlett L. Morris. (published in J.S.H.D.)

\*\*\*

A PHONOLOGICAL ANALYSIS OF CHILDREN'S ARTICULATION ERRORS. Stanley Hutton. (M.A. study in Progress)

\*\*\*

THE BELIEF IN MAGIC. Wendell Johnson. (an article transcribed from a tape recording and prepared for publication in E.T.C. by J. Albert Southern and S.I. Hayakawa)

\*\*\*

INVESTIGATION OF ABILITY OF CHILDREN WITH ARTICULATION PROBLEMS TO LEARN LINGUAL POSITIONS AND REPRODUCE THEM IN THE PRESENCE AND ABSENCE ON TACTILE SENSATION. Linda Jordan. (Ph.D. study in progress)

\*\*\*

REMOTE MASKING FOR LISTENERS WITH COCHLEAR IMPAIRMENT. Robert Keith, and Charles Anderson. (published in J.A.S.A.)

\*\*\*

ARTICULATORY DYNAMICS OF VOICED AND VOICELESS STOP CONSONANTS. Raymond Kent. (completed M.A. thesis) CINEFLUOROGRAPHIC-SPECTOGRAPH INVESTIGATION OF THE COMPONENT GESTURES IN LINGUAL ARTICULATION. Raymond Kent. (Ph.D. thesis in progress)

XXX

VOWEL INFORMATION CONTAINED WITHIN CONSONANTS: A PERCEPTUAL STUDY. David Kuehn. (M.A., study in progress)

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LARYNGEAL BEHAVIOR DURING CHANGES IN VOCAL FREQUENCY. Richard Klich. (Ph.D. study in progress)

XXX

REPRODUCING STYLI FOR SPEECH AUDIOMETRY. David J. Lilly and Richard L. Franzen. (published in J.S.H.R.)

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THE ACOUSTIC REFLEX AFTER STAPEDECTOMY: ITS EFFECT UPON TEMPORARY THRESHOLD SHIFT. David J. Lilly and John H. Mills. (unpublished paper)

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PREDICTING CINEFLUOROGRAPHIC MEASURES OF VELOPHARYNGEAL OPENING FROM LATERAL STILL X-RAY FILMS. James F. Lubker and Hughlett L. Morris. (published in J.S.H.R.)

XXX

RELATIONSHIP OF ORAL CAVITY AND NASAL CAVITY RESISTANCES TO PERCEIVED NASALITY. Connie Lyon. (Ph.D. study in progress)

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BEKESY THRESHOLDS AS A FUNCTION OF ATTENUATION RATE. James Lynn. (completed Ph.D. thesis)

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COMMUNICATION SKILLS OF MONCOLOID CHILDREN. Pauline Lipson. (completed M.A. thesis)

<del>X X X</del>

BEKESY AUDIOMETRY WITH JUVENILE DIABETICS. Gabriel Marshak and Charles Anderson. (published in J. Aud. Res.)

\*\*\*

INVESTIGATION OF A BASIC SPEECH POSTURE AND ITS INFLUENCE ON COARTICULATION. Richard Mease. (Ph.D. study in progress)

AN EXPERIMENT IN ORAL BIOLOGY ON DETERMINATION OF GROWTH BY TETRACYCLINE LABELLING IN MAXILLAE OF GUINEA PIGS. Kenneth Messer. Narendar Soni. (unpublished paper)

X X X

ETIOLOGY OF HOARSENESS IN CHILDREN'S VOICES. Douglas Miller. (Ph.D. study in progress)

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THE EFFECTS OF THE ACOUSTIC REFLEX UPON TEMPORARY THRESHOLD SHIFTS. John H. Mills. (completed Ph.D. thesis)

XXX

SPEAKER AND LISTENER JUDGMENTS OF VOWEL LEVELS. Kenneth L. Moll and G.E. Peterson. (published in Phonetica)

<del>X X X</del>

ABNORMAL ARTICULATION PATTERNS. Hughlett L. Morris. (chapter 49 in Cleft Lip and Cleft Palate)

<del>\*\*\*\*</del>

AN ANALYSIS OF RESTRICTED UTTERANCES OF THREE-YEAR OLD HEAR-START CHILDREN. Kay Monkhouse. (M.A. study in progress)

\*\*\*

THE FREQUENCY REGION OF MAXIMUM TEMPORARY THRESHOLD SHIFT RESULTING FROM TWO LEVELS OF HIGH INTENSITY, LOW FREQUENCY OCTAVE-BAND NOISE. David Nelson. (M.A. study in progress)

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A PERCEPTUAL-ACOUSTIC-PHYSIOLOGICAL STUDY OF SYLLABLE STRESS. Ronald Netsell. (completed Ph.D. thesis)

EVALUATION OF VELOPHARYNGEAL DYSFUNCTION IN DYSARTHRIA. Ronald Netsell. (published in J.S.H.D.)

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CHANGES IN OROPHANGEAL CAVITY SIZE OF DYSARTHRIC CHILDREN. Ronald Netsell. (published in J.S.H.R.)

ENVELOPE VERSUS MICROSTRUCTURE IN THE FUSION OF DICHOTIC SIGNALS. Earl D. Schubert and Joel Wernick. (published in J.A.S.A.)

XXX

CORRELATION BETWEEN NASLAITY AND DEFECTIVENESS OF ARTICULATION. Dorothy Sherman. (published in Cleft Palate J.)

<del>X X X</del>

NASALITY AND PRECISION OF ARTICULATION. Dorothy Sherman and Penny Klocksiem. (in progress)

<del>X X X</del>

USEFULNESS OF THE MEAN IN PSYCHOLOGICAL SCALING OF CLEFT PALATE SPEECH. Dorothy Sherman. (published in Cleft Palate J.)

THREE PSYCHOLOGICAL SCALING METHODS APPLIED TO LANGUAGE DEVELOPMENT. Dorothy Sherman and Franklin H. Silverman. (published in J.S.H.R.)

\*\*\*

A COMPARISON OF STUTTERING AND NONSTUTTERING CHILDREN IN TERMS OF FIVE MEASURES OF ORAL LANGUAGE DEVELOPMENT. Ellen-Marie Silverman and Dean E. Williams. (published in J. Comm. Dis.)

\*\*\*

AN EVALUATION OF HEARING AID RECOMMENDATION PROCEDURES. Albert Silverio. (M.A. study in progress)

\*\*\*

A STUDY OF THE DISFLUENCY BEHAVIOR OF FOUR-YEAR-OLD MALES. Ellen-Marie Loebel Silverman. (Ph.D.)

\*\*\*

AN INEXPENSIVE CLICK-FREE AUDIO SWITCH. Arnold M. Small. (Behav. Res. Meth. and Instru.)

\*\*\*

HEARING. Arnold M. Small. (in International Encyclopedia of the Social Sciences)

\*\*\*

MLSs FOR SIGNALS PRODUCING PLACE AND PERIODICITY PITCH. Arnold M. Small. (published in J.A.S.A.)

UPWARD SPREAD OF MASKING AS A FUNCTION OF THE LOWER CUT-OFF FREQUENCY OF A BAND OF NOISE. Arnold M. Small. (unpublished paper)

\*\*\*

RELATIONSHIPS OF SELECTED PHYSIOLOGICAL VARIABLES TO SPEECH DEFECTIVENESS OF ATHETOID AND SPASTIC CEREBRAL PALSIED CHILDREN. Ann Smit. (completed M.A. thesis)

\* \* \*

SPEECH PROBLEMS OF PATIENTS WITH CLEFT LIP AND PALATE. D.C., Spriestersbach and Hughlett L. Morris. (published in Reconstructive Plastic Surgery)

XXX

ARTICULATION TESTING IN VARIOUS CONTEXTS FOR GROUPS OF SUBJECTS WITH CLEFT PALATE. Duane Van Demark. (in progress)

XXX

CONSISTENCY OF ARTICULATION OF SUBJECTS WITH CLEFT PALATE. Duane Van Demark. (published in C.P.J.)

\*\*\*

PROBLEMS IN CLINICAL RESEARCH METHODOLOGY. Duane Van Demark. (unpublished paper)

<del>X X X</del>

THE EFFECGS OF INTENSIVE THERAPY FOR SPEAKERS WITH CLEFT PALATE. Duane Van Demark. (in progress)

XXX

BEKESY TYPES AT SUPRA THRESHOLD LEVELS. Gloria Van Lue. (M.A. study in progress)

\*\*\*

DISFLUENCY BEHAVIOR OF ELEMENTARY SCHOOL STUTTERERS AND NONSTUTTERERS: THE ADAPTATION EFFECT. Dean E. Williams, Franklin H. Silverman, and Joseph A. Kools. (published in J.S.H.R.)

\*\*\*

DISFLUENCY BEHAVIOR OF ELEMENTARY SCHOOL STUTTERERS AND NONSTUTTERERS: THE CONSISTENCY EFFECT. Dean E. Williams, Franklin H. Silverman, Joseph A. Kools. (published in J.S.H.R.) NOTE CONCERNING ARTICULATION OF SCHOOL-AGE STUTTERERS. Dean E. Williams and Franklin H. Silverman. (published in J.S.H.R.)

\*\*\*

STUTTERING THERAPY: AN OVERVIEW. Dean E. Williams. (published in Learning Therory and Stuttering Therapy)

\*\*\*

THE RELATIONSHIP BETWEEN STUTTERING AND ACADEMIC ACHIEVEMENT IN CHILDREN. Dean E. Williams, Barbara M. Melrose, and C. Lee Woods. (published in J. of Comm. Dis.)

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SOCIAL POSITION AND SPEAKING COMPETENCE OF THIRD-GRADE AND SIXTH-GRADE STUTTERING BOYS. C. Lee Woods. (Ph.D. study in progress)

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SPEECH CLINICIANS' STEREOTYPES OF ADULT MALE STUTTERERS. C. Lee Woods and Dean E. Williams. (unpublished paper)

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PERCEPTION OF PARENTAL ATTITUDES BY STUTTERING AND BY NONSTUTTERING CHILDREN. Ehud Yairi. (Ph.D. study in progress)

\*\*\*

VARIATIONS IN HOARSENESS AMONG SELECTED PORTIONS OF PROLONGED PHONATIONS OF THE VOWELS /i/ and /a/. Ehud Yairi and Douglas Miller. (in progress)

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SPEECH CLINICIANS' STEREOTYPES OF ELEMENTARY SCHOOL BOYS WHO STUTTER. Ehud Yairi and Dean E. Williams. (unpublished paper)

# Alumni Information

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# DEPARTMENT OF SPEECH PATHOLOGY AND AUDIOLOGY UNIVERSITY OF IOWA

## Newsletter

## Vol. 2, No. 9, December, 1969

The newsletter is circulated about the 20th of each month excluding January, August, and September. News items should be written out and either deposited in the newsletter box in the lounges or given to any of the following people: L. Brice, C. Collison, A. Compton, E. Conture, L. Hanau, D. Miller, K. Monkhouse. For additional information, please see Arthur Compton or Douglas Miller.

Everyone in the department is encouraged to contribute any information which they consider to be of departmental interest. It is of special importance to get information concerning alumnae, since there is no systematic method for keeping in touch with our graduates.

## Departmental News and Announcements:

CHRISTMAS PARTY: The Department of Speech Pathology and Audiology will host its annual Christmas Party on Wednesday, December 17, from 2 to 4:40 p.m. in the reception area of the Speech and Hearing Center. All faculty, staff, and students (graduate and undergraduate) are invited.

UNDERGRADUATE ORGANIZATION: During a meeting with undergraduates held earlier this fall, much interest was expressed about the formation of an organization for undergraduates in speech pathology and audiology. The purpose would be to become more familiar with the work which is being done in the field, and to become better acquainted with faculty members and other students.

The first organizational meeting was on Tuesday evening December 16, 1969, at 7:30 in the TV studio. Included on the program was the viewing of a videotape and a discussion of the therapy and the progress made by a child who was a participant of the 1969 Summer Residential Program. Refreshments were also served.

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On Friday, December 5, the combined speech staffs of the HOSPITAL SCHOOL and SSCC spoke to the 31 speech clinicians working in the public schools of Cedar, Iowa, Johnson, Linn, and Washington Counties. The meeting, a regularly scheduled in-service training session for the clinicians, was devoted to a discussion of classroom-oriented speech and language development programs. Such programs emphasize the use of classroom activities and situations as they arise during the day to stimulate speech and language development. The speech clinician's role in this approach is that of an observer and consultant to the classroom teacher. A similar session with the classroom teachers of the mentally retarded from the same school systems is being planned.

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MIKE MURPHY has resigned his position as Supervisor of the Speech and Hearing Department, University Hospital School, effective January 31, 1970, to return to school full-time to complete his doctoral degree.

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DEPARTMENTAL GRADUATE COMMITTEE: The Committee has been considering a number of subjects and plans to develop a questionaire concerning work assignments before the end of this semester. It is hoped that enough information can be collected to more adequately define the contribution of various work assignments in the context of the whole training program. If any student has suggestions about this subject or any other matter for consideration by the Graduate Committee, he should contact Mary Bowstead, Ed Conture, Doug Miller, Dave Nelson, or Jim Thelin.

VISITING LECTURE SERIES: On December 10, EDGAR R. GARRETT, New Mexico University, presented a public lecture entitled, "Behavioral Modification and Communication Processes." He also held informal discussion sessions the following day.

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Ph.D. ORAL EXAMINATIONS: RICHARD L. FRANZEN, January 5, 2:00-4:00 p.m. Senate Chamber, Old Capitol, dissertation - "Threshold of the Acoustic Reflex for Pure Tones." EHUD YAIRI, January 7, 10:00-12:00 a.m., Board Room, Old Capitol, dissertation - "Perception of Parents by Stuttering and Non-stuttering Children."

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SHC LIBRARY HOURS: During the Christmas holidays, the library will be open from 1:00-5:00 p.m. on December 22, 23, 29, 30, and January 2. The library will be closed at all other times until regular hours resume on January 5.

AARON FAVORS will begin his new position next semester as Director of the Speech and Hearing Clinic at Shaw University, Raleigh, North Carolina.

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THE INFORMAL STUDENT SEMINAR will meet January 6 at 8:00 p.m. in room 233. Dr. Hardy will discuss aspects of clinical certification, review application procedures, and answer questions. As usual, all students are welcome to attend, and the meeting will be informal with refreshments available during the discussion. If any student, graduate or undergraduate, would like to suggest a topic for future meetings, please contact Stan Hutton or Sally Peterson.

JAMES CURTIS will be at the University of Florida as a visiting professor during the spring semester.

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On December 3, WESSLEY WILSON, University of Washington, presented a talk on a method of objective audiometry using a plethysmograph technique.

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STUDENT-FACULTY RESEARCH SEMINAR: LINDA JORDAN will present a preliminary report of her doctorial study, "Investigation of Ability of Children with Articulation Problems to Learn Lingual Positions and Reproduce Them in the Presence and Absence of Tactile Sensation," on December 18.

# Professional Activities of Members in Department:

BRETA LAWSHE presented a talk on "Communication Problems of the Stroke Patient" to the Cherokee Mental Health Institute on December 4, in Cherokee, Iowa, at a conference sponsored by the Iowa Heart Association.

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The following people presented papers at the ASHA CONVENTION in Chicago, Illinois:

WILLIAM YOVETICH and DEAN WILLIAMS, "Integration of Approaches to Stuttering Therapy for Elementary-School-Aged Children."

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ASHER BAR, SHELLY CONTURE, and VILMA BOROS, "The Effects of Prescribed Changes in the Interviewer's Speech and Silence Behavior on the Speech and Silence Behavior of Normal Children and Language Impaired Children."

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JAMES F. CURTIS and DUANE SPRIESTERSBACH served as speakers and discussants at the session on "The Role of Speech Science in the Educational Program of the Speech Clinician."

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JERRY CARNEY and KENNETH MOLL, "A Cinefluorographic Investigation of Fricative Consonant - Vowel Coarticulation."

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AARON FAVORS and DAVID LILLY, "Some Effects of Anesthesia Upon Auditory Bone Conduction Thresholds."

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DAVID LILLY, JACK MILLS, and C.M. KOS, "The Acoustic Reflex after Stapedectomy: Its Effect Upon Temporary Threshold Shift."

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JERRY CARNEY and HUGHLETT MORRIS, "Structural Correlates of Nasality."

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DUANE SPRIESTERSBACH presented a report on the "International Congress on Cleft Palate," held in Houston, Texas.

DUANE VAN DEMARK, "Nasal Voice Quality Perceptual Ratings of Nasality Under Various Conditions for Cleft Palate Males." Dr. Van Demark also served as a speaker and discussant at the session on "Cleft Palate: Integration of Clinical and Research Activities."

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DEAN WILLIAMS gave a short course entitled "Stuttering Therapy for Children."

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## Social Announcements and Personals:

COLLEEN (STIRLING) PICEK'S husband, Lou, in now in advanced training at Fort Bragg, North Carolina. Lou, a former art major, has been assigned to army illustrations.

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BRENDAN GAGE, son and first child of Shelly and Ed Conture, was born on October 16, 1969.

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KEVIN LOUIS, son and first child of Mary Ellen and Jerry Vasile, was born on November 17, 1969.

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#### Departmental Research and Publications:

NASAL AIRFLOW AS AN INDEX OF PROSTHETIC MANAGEMENT OF CLEFT PALATE by James F. Lubker and James W. Schweiger appeared in the <u>Journal of</u> Dental Research.

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TEXTBOOK OF PRACTICAL AUDIOMETRY, L. Bernhard. Revied by Jay Melrose in J.S.H.D., Vol. 34, 1969.

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#### Alumni Information:

Many of the following items were returned in response to our request for alumni information in the November "Special Alumni Issue" Newsletter. The remainder of the information received will be published in the February, 1970 issue of the Newsletter.

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MARCIA HUNTER (M.A., 1967) was recently married and has moved to Atlanta, Georgia where she will be working at Emory University as an audiologist. LORENE "SIS" SWANSON LIDDLE (M.A., 1967) is a speech pathologist at Mercy Hospital in Pittsburgh, Pennsylvania. Her husband, David, is a senior at the Pittsburgh Theological Seminary.

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DIANA CROOK MAGERS (M.A., 1967) is currently working as a speech and hearing therapist in Marion Community Schools, Marion, Indiana. During the past summer she worked on the staff at the Speech and Hearing Clinic at Ball State University. Her husband, Tom is completing his Master's Degree in chemistry at Ball State.

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JAN SMITH MAYNARD (B.S. 1964) is presently living in Grand Junction, Colorado where she has been doing private practice and taking care of her first child, Krista, born July 10, 1969.

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SHIRLEY NICHOLS SPARKS (B.A., 1955) is living in New Orleans where her husband is Dean of Tulane Medical School. Shirley has not been working in the field for the last five years but hopes to complete her M.S. degree in Speech Pathology at Tulane this year.

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SANDRA STAUBITZ OURTH (M.A. 1968) is currently living in Boston where her husband is a Research Fellow at Harvard. Sandra is working at the Children's Hospital Medical Center. They are expecting their first child in June.

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DOROTHY ZLOBIK WINTER (M.A. 1965) is living in Cedar Falls, Iowa where her husband teaches at the University of Norther Iowa. Dorothy is presently teaching the pre-school class for deaf and partially hearing, funded by the Black Hawk-Buchanan County Board of Education.

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