

DEPARTMENT OF SPEECH PATHOLOGY AND AUDIOLOGY
UNIVERSITY OF IOWA

Newsletter

Vol. 3, No. 1, February, 1970

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: T. Aronson, 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:

VISITING LECTURE SERIES: Dr. Sadanand Singh from Howard University, Washington, D.C., presented a paper, "Methods of Determining the Perceptual Structure of Speech Sounds," on the evening of February 12.

On the evening of March 12, 1970, at 7:30 P.M., Dr. Harold L. Luper, University of Tennessee, and Dr. Bruce Ryan, Monterey Institute for Speech and Hearing will each present a paper in conjunction with a Special Study Institute on Stuttering which is being held in Iowa City. Dr. Luper's talk is entitled "Training Mothers to Use Operant Conditioning for Children Who Stutter," and Dr. Ryan will speak on "Operant Technology Applied to Therapy Programs for School-Aged Children Who Stutter."

Dr. Harris Winitz, University of Missouri at Kansas City, will speak on "Behavioral Phonetics with Special Reference to Retention," sometime during the month of April.

DRS. MOLL AND MELROSE are conducting an informal seminar on Administrative Problems in Speech and Hearing on Wednesday evenings at 8:30, Room 233, SHC. All graduate students who are interested in problems of curriculum, staffing, finances, ethics, demands of ASHA, grant proposals, etc., are welcome to attend. Fourteen students attended the first organizational meeting on Wednesday, February 4 which generated some lively discussion.

CLINICAL FIELD TRAINING: As an augmentation of the current clinical training program, a regional field-block practicum concept is being tried via the Public School practicum. It is designed to provide experience in an ongoing service program with all its administrative, multi-professional relationships and varied client population. If the practicum appears useful, placements in other regional education-health related agencies will be developed besides the current public school programs.

Six students are participating during the spring semester. Two consecutive blocks have been arranged of seven weeks each. The student spends four full working days of each week in the service program and the fifth on campus. The remainder of the semester is devoted to other practicum on campus. The cooperating agencies are RESA IX (Scott-Muscatine) and RESA X (Cedar, Johnson, Linn and Benton). Mrs. Jane Benda, Mrs. Kaye Shepard, Mrs. Surline Winder and Miss Connie Heaton are the field supervisors this semester. Marie Emge is liaison supervisor for the program.

THE DEPARTMENTAL GRADUATE COMMITTEE has written and handed out a questionnaire to all students who had training assignments during the fall 1969-1970 semester. The purpose of these forms is to collect specific information describing assignments, the quality of supervision, the time spent, and the value of the learning experience. Individual responses will be kept confidential. When all forms are completed a general report will be made on a summary of the training assignment system, information on and reaction to types of assignments (clinical, research, etc.), reactions from beginning vs. "old" students, etc. This report will either be printed in the Newsletter or duplicated for general circulation. Forms should be filled out and returned by Friday, February 20, if possible. If there are any questions, please contact Mary Bowstead, Ed Conture, Doug Miller, Dave Nelson, or Jim Thelin.

SIGN, YOUR ON CANDY CAMERA: For anyone interested in learning Sign Language of the Deaf, there will be a series on sign language televised on KIIN (channel 12) from 8:30 - 9:00 A.M., beginning February 16, 1970. The series will continue for thirteen weeks.

STUDENT-FACULTY RESEARCH SEMINARS: Jean VanLue, "The Effect of Level on Bekesy Loudness Tracking," February 19; Steve Giles, "The Production of the "L" Sound in Various Phonetic Contexts," February 26; Anthony Staiano, "Body Motion in Aural Communication," March 5.

AARON FAVORS left Iowa City in January to go to Shaw University, Raleigh, North Carolina where he will be Director of the Speech and Hearing Clinic. Before he and his wife left they were honored at a number of gatherings including a faculty-staff dinner at the Highlander on January 16 and a surprise party given by Linda Powell and Ellen Dustman on January 22.

A departmental COMPS PARTY was given at the Carousel on January 10, 1970. The party was in honor of (and given by) Aileen Baeseman, Carole Blanton, Ric Franzen, Ann Hill, Stan Hutton, Mary Ann Nix, Sally Peterson, Jody Raney, and Jean VanLue. There were other spontaneous gatherings at George's throughout the month to make sure that all graduates were properly honored --- and sent home staggering.

Professional Activities of Members in Department

BRETA LAWSHE gave a lecture on "Aphasia" on January 6 at a Conference on Nursing Care of the Patient with Acute Stroke. The conference was sponsored by the Iowa Regional Medical Program and was held in the Iowa Memorial Union.

JAMES HARDY and JAMES CURTIS attended a state-of-the-art review on "Speech and the Dento-Facial Complex" in New Orleans, Louisiana. The first of two three-day meetings was held on January 12, 13, and 14 with a follow-up meeting to be held February 16, 17 and 18. During the first meetings, James Hardy presented a paper entitled "Development of Neuromuscular Systems Underlying Speech Production", and James Curtis presented a talk on "Acoustic and Analog Studies". The review was under joint sponsorship of the American Speech and Hearing Association and the National Institute of Dental Research. The purpose of this review was to make a critical evaluation of the past and current work and to suggest areas for further research into the development and maturation of normal and abnormal structure and function of the dento-facial complex.

MARIE EMGE presented a talk on "Evaluation of Voice Disorders in School-Age Children", on February 6 at the in-service training meeting of the Joint County System of Cedar, Johnson, Linn, and Washington Counties.

ARTHUR J. COMPTON presented a paper entitled "Developmental Phonology", on December 31, 1969, at the Linguistic Society of America Convention in San Francisco. He also gave a preliminary version of the paper at the University of Iowa Language Colloquium meeting on December 16.

HUGHLETT MORRIS and BYRON MERKEL presented a joint program to the Central Iowa Speech and Hearing Association in Des Moines, February 2, 1970. The topic was Management of Voice Problems.

CHARLES ANDERSON presented a talk on "The School-Aged Child and His Hearing Aid", on January 24, 1970, at Northern Illinois University in DeKalb, Illinois.

Social Announcements and Personals

ANNETTE ERIKA, daughter and first child of Kathy and Steve Kellogg, was born on January 7, 1970.

RICHARD KLICH'S wife, Joanne, was elected Graduate Student Senate Representative for her department - Library Science.

ATTENTION 229'ERS: Anyone wishing to contribute to the Joanne Schwartz Slipper fund, see Mary Stauss or Ken Messer.

MARGARET EVANS and John Joyce are to be married August 1, 1970 in Chicago. Margaret plans to work as a speech therapist in the Chicago Public School System.

PENNEY KLOCKSIEM and James M. Hall are to be married on June 6, 1970, in Coralville, Iowa.

LESLIE HANAU and David Fairbanks will be married March 28 in Hensdale, Illinois.

BRIAN PATRICK, second son and third child of Joy and Mike Murphy, was born on January 30, 1970.

NANCY EUGENIA, daughter and first child of Connie and Lynn Lyon, was born on January 18, 1970.

New Students and Staff

MICHAEL CHIAL is a CIC (Committee on Institutional Cooperation) Traveling Scholar from the University of Wisconsin presently working toward a Ph.D. in audiology. Mike completed his BS at Mankato State College in 1965 and received an MA in theater and an MS in audiology from the University of Wisconsin in 1968. He has worked as a clinical audiologist in private ENT Clinics and has taught in the Department of Speech and Theater at Whitewater University in Whitewater, Wisconsin. Mike is married and has two children.

KATHY COYLE completed her BS at the University of Iowa in January, 1970, and is presently working toward an MA in speech pathology. Her husband, Mike, is a senior in the College of Law.

GAIL GEISINGER completed her BS at the University of Iowa in June, 1969, and is presently working toward an MA in speech pathology.

JO ELLEN HAWKINS is the new clinical secretary at the main clinic desk and is handling the clinic records of the Department. Jo Ellen hails from Wilton Junction, Iowa, the Resort-Center of Mid-America.

KARLA KOLENE KINNICK is the new receptionist-secretary at the main clinic desk. Karla has been in school for the past two years in the Department of Music and plans to return at a later date.

Department Research

THRESHOLD OF THE ACOUSTIC REFLEX FOR PURE TONES by Richard Franzen (Ph.D. thesis, January, 1970): Contraction of the middle-ear in response to acoustic signals is called the acoustic reflex. Experimental evidence indicated that, on the average, pure tones must be presented at a sensation level (SL) of at least 80 dB to activate the consensual acoustic reflex in man. In 1964 Lilly employed an acoustic-impedance technique to obtain estimates of reflex threshold for white noise that were about 30 dB lower than previous estimates for pure tones. Lilly's investigation suggested that lower reflex thresholds for noise might be due, in part, to improvements in the procedures and in the instrumentation that he used.

The purpose of the present study was to obtain the lowest possible estimates of reflex threshold for pure-tone activating signals. It was hoped that reflex thresholds would be low enough to serve as indices of auditory threshold for an "objective" clinical test employing reflex-threshold measure-

ments. An electroacoustic impedance bridge similar to the one used by Lilly, was employed to measure reflex thresholds for pure tones at octave frequencies from 125 Hz through 4000 Hz, and for a white noise. The subjects were 9 young adults (5 male, 4 female) with normal auditory sensitivity for the activating signals. Reflex thresholds were measured for 10-second signals (presented in 2-dB steps) by an ascending, by a descending, and by a facilitation method. For the facilitation method activating signals were preceded by another signal presented above reflex threshold. All activating signals were presented to the left ear and all reflex responses were determined by monitoring changes in acoustic impedance at the right ear. The threshold of audibility for the left ear also was determined for each activating signal.

Reflex thresholds measured by the ascending and by the descending methods did not differ significantly and were combined to obtain a single estimate of reflex threshold for each activating signal. Reflex thresholds for the facilitation method were significantly lower than those measured by the other methods. A more systematic investigation of the apparent facilitation effect is indicated.

The mean reflex threshold (dB SPL) for pure tones ranged from 89.6 dB at 1000 Hz to 117.2 dB for 125 Hz. The mean SL at reflex threshold for pure tones ranged from 73.1 dB at 125 Hz to 86.0 dB at 1000 Hz. The mean reflex threshold for the white noise was 58.3 dB SPL. This corresponds to a mean SL of 46.3 dB. Reflex thresholds for the present study are similar to those reported by other investigators and indicate a marked difference between threshold sensitivity of the reflex for pure tones and for noise. This difference probably cannot be attributed to procedure or to instrumentation. Rather, difference in reflex sensitivity appear to be related to difference in the nature of the activating signals. Loudness, bandwidth, and variation in amplitude and frequency are discussed as properties of activating signals that may influence reflex sensitivity.

The findings of the present study suggest that reflex threshold for a steady pure tone may not be the most appropriate clinical index of auditory sensitivity. Reflex thresholds for normal listeners indicate that the signal levels required to activate the acoustic reflex for many patients with a 20-dB to 30-dB hearing loss may exceed the output limitations of most clinical audiometers. Suggestions are made for investigation of reflex threshold for pulsed pure tones and for narrow bands of noise. These investigations may provide the basis for a better objective test of auditory sensitivity.

THE EFFECTS OF LEVEL ON BEKESY LOUDNESS TRACKING by Jean VanLue (M.A. thesis, January, 1970): The purpose of this study was essentially to determine whether the Jerger Type V Bekesy audiogram can be used as a quantitative indicator of the degree of exaggeration of threshold displayed by a person demonstrating a nonorganic hearing loss. It was hypothesized that there exist differences between the Type V patterns obtained for various amounts of exaggeration. This was investigated by using normal-hearing subjects matching loudness levels (20 dB SL and 50 dB SL). Of particular interest were the following questions: (1) Is the Type V pattern more predominant when matching the 50 dB SL reference tone than when matching the 20 dB SL reference tone; (2) Are there any differences between the Type V patterns obtained matching the two levels?

(3) At what frequencies are the separations between the pulsed and continuous tracings maximal?

Although subject variability was considerable the following conclusions were reached:

(1) The Type V audiogram will generally be obtained in loudness-matching tasks, especially those matching a higher sensation level reference tone.

(2) The patterns of the Type V audiogram obtained at one level do not seem markedly different from those obtained when matching another level.

(3) The separations between the pulsed and continuous tracings are maximal in the mid-frequency range, but may be different for each task and individual.

AN ANALYSIS OF RESTRICTED UTTERANCE OF THREE-YEAR OLD CHILDREN by Kay Monkhouse (M.A. thesis, January, 1970): The purpose of this study was to obtain a representative sample of the language of a group of Head Start children and to use a generative transformational model of grammar to analyze and describe the linguistic development of four of the children.

A sample of 300 utterances of each child's speech was recorded in a conversational setting at the Iowa City Head Start Preschool Center. Two observers transcribed the utterances and selected those which they considered to be "restricted" (that is, utterances which are not acceptable as adult speech). Rules which produced restricted utterance were postulated according to a generative grammar. These "rules" are the hypothesized principles which underly the deviant sentences the children produced.

The rules necessary to account for the majority of restricted utterances of the four children involved: deletions in copula and auxiliary forms of declaratives, WH, and YES-NO questions; catenation; omissions, substitutions and redundancies of pronoun and article forms; "to" omission; present tense substitution of past and future forms of regular and irregular verbs; subject-verb agreement; and negation.

In addition to producing deviant utterances the children also used many corresponding non-restricted rules to produce well-formed utterances by adult standards. The co-occurrence of both restricted and non-restricted sentences in the data illustrates the discrepancy between competence and performance. That is, "knowledge" of the adult rule (competence) does not mean that the child will use this rule consistently in his speech (performance).

A comparison of the rules used by "normally-developing children" to account for their use of restricted and non-restricted forms, indicates that the four children in this study used rules which were essentially similar. This suggests, therefore, that these four children are not developing grammar in a deviant way, but are developing grammatical rules according to the schedule of most children in their age group.

Editorial

A questionnaire concerning the 1969 Summer Residential Program was circulated to student clinicians who participated in that program. The evaluations were completed by twelve students. Reactions to various questionnaire items are described below.

Supervision of therapy. Inadequate supervision of therapy was reported in five cases. The practicums involved were cleft palate (two complaints), stuttering (two complaints), and aural rehabilitation (one complaint). One student observed that too many clinicians were scheduled for cleft palate therapy in about the same period of time.

Scheduling of therapy. On this item there was general agreement that hourly scheduling of therapy sessions should be continued.

Availability of materials and suitability of therapy rooms. The only major problem to be reported under this item is that chairs frequently were missing from the therapy rooms. Additional therapy materials suggested by the clinicians included a delayed-auditory-feedback unit, felt boards and more games. In this connection, one of the members of the clinical committee recommended that students should be advised of the facilities available at the Curriculum Lab in East Hall. The materials stored there are often helpful in preparing therapy activities.

The use of room 7. (While at the clinic, children spent their unscheduled time in this room). This part of the program was the only one to prove generally unpopular. In response to the query, "Do you feel that room 7 was used effectively this year?" eight clinicians wrote "no" and two wrote "yes". Clinicians were asked to evaluate two alternatives for improving this situation: (a) the children should be divided into more homogeneous age groups, or (b) both rooms 3 and 7 should be employed. The opinions were divided about evenly between the two choices. If rooms 3 and 7 were both to be used, one would be reserved for study and the other for play. Some students also thought that it would be helpful if a full-time or staff clinician were in attendance.

The house. Most clinicians (eight of twelve) thought that relations between the house and the clinic were satisfactory. When asked if they would like to have a student clinician or consultant stationed at the house, a majority (eight of the ten who replied to the item) favored the proposal. The following suggestions were made to promote carry-over from therapy sessions to the house environment.

1. An orientation meeting between clinicians and counselors should be scheduled for the purpose of discussing the ways in which counselors can contribute to carry-over.

2. Counselors should continue to work with relatively small groups of children.

3. The clinician should furnish the counselor with a card bearing the pertinent information for a given client, e.g., nature of problem and direction of therapy.

4. Clinicians should visit the house. (Several clinicians mentioned that house visits were particularly beneficial.)

These suggestions seem to reflect the general opinions that the counselor should be acquainted with the client's problem and that closer contact should be maintained between clinician and counselor.

Professional Services. Only one clinician was not aware of the available services, but four felt that they did not have sufficient contact with others who dealt with the child.

The members of the clinical committee thank the clinicians for their cooperation with the questionnaire and hope that this information will be useful in planning the 1970 Summer Residential Program.

Report of Student Clinical Committee

Carol Emerick
Ray Kent
Jeff Knox
Kay Monkhouse

Alumnae Notes

ANN HILL (M.A. 1970) is working as the audiologist at the Iowa Clinic of Otology with C.M. Kos, M.D., and S.N. Reger, Ph.D.

MARTLYN (REED) KENNEDY (B.A., 1951) is working as a speech therapist in Hartford County, Maryland.

MARTHA MARTIN (M.A., 1963) joined the Communication Disorders staff at Wisconsin State University in September, 1969. She teaches, supervises therapy, and continues to work with aphasics.

SYLVIA STEINER (Ph.D., 1964) has completed post-doctoral training at the Johns Hopkins Hospital and joined the Communication Disorders staff at Wisconsin State University. She will develop the Speech and Hearing Science Area.

EINER BOBERG (M.A., 1963) has been appointed as director of the Communication Disorders Program at Wisconsin State University.

ELAINE (JENSEN) ROVANE (B.A., 1951) is working as a volunteer with the Head Start Pre-School Program in Keokuk, Iowa.

FRANKLIN (Ph.D., 1966) and ELLEN-MARIE (Ph.D., 1970) SILVERMAN are the proud parents of their first daughter, CATHERINE BETTE, born December 28, 1969.

MARVIN CHERNOFF (M.A., 1955) is associate professor at Indiana University, Northwest and is also acting as consulting psychotherapist at the Institute for Mental Health Services in Park Forest, Illinois.

MARY (GROENEWOLD) THOMPSON (B.A., 1949) is working part-time as a speech therapist in the Mankato Public School System in Minnesota.

CATHERINE (VAN RIPER) SQUIRES (B.A., 1961) has temporarily retired from the profession to care for her daughter Jennifer, age two and one-half years. She had previously worked for the Muskegon and Plainwell Public School Systems in Michigan.

January Graduates: Ph.D.

RICHARD FRANZEN has accepted a position as research audiologist at Michael Reese Hospital in Chicago, Illinois.

ELLEN-MARIE (LOEBEL) SILVERMAN is a post-doctoral fellow in the Department of Speech at the University of Illinois pursuing her interests in children's language development.

EHUD YAIRI has taken a full-time position as research associate on the stuttering research project with Dean Williams.

January Graduates: M.A.

AILEEN BAESEMANN has taken a position as a speech clinician in the Scott-Muscatine County School System.

CAROLE BLANTON is working as a half-time audiologist in the State Services for Crippled Children (SSCC).

ANN (MERKEL) HILL is working as a clinical audiologist for Dr. C.M. Kos here in Iowa City.

JAMES STANELY HUTTON has taken a position as resident speech pathologist for State Services for Crippled Children (SSCC) working in the Department of Pediatrics.

KAY MONKHOUSE is continuing in the Department as a Ph.D. candidate in speech pathology.

RALPH DAVID NELSON is continuing in the Department as a Ph.D. candidate in audiology.

MARY ANN NIX has accepted a position as a speech clinician in the St. Louis Special School District.

JODIE C. RANEY is working as a speech clinician in the Davenport School System.

JOYCE ROSINSKY'S plans are still indefinite at this time.

GLORIA JEAN VANLUE is continuing in the Department as a Ph.D. candidate in audiology.

January Graduate B.S.

KATHRYN COYLE

IV

implosion:

i've seen bending
trees
backs arched against
the weight
straining
i've seen circling
vanes
stilled
broken shafted
right angling
against the wind
i've seen
fox crafting
taloned
farm eagled
red splaying
against seedlings

: implosion

a.v.s.

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UNIVERSITY OF IOWA

Newsletter

Vol. 3, No. 2, March, 1970

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: C. Collison, A. Compton, L. Hanau, M. Kaiser, T. Middleton, K. Monkhouse. For additional information, please see Arthur Compton or Kay Monkhouse.

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:

A recent article in Newsweek, March 9, 1970 reported on a new artificial larynx designed by Dr. Stanley Taub at the New York Medical College. This ".....artificial larynx permits Fraser to speak--and even sing--with a voice that sounds neither mechanical nor monotonous." Refer to page 46 for the exciting details.

INFORMAL STUDENT SEMINAR: On the evening of March 5 James Hardy discussed the requirements and application procedures for the ASHA Certificate of Clinical Competence. He was interrogated without compassion by the twenty or so persons in attendance and responded in excellent form. It was a pleasure to discuss the CCC with a person "in the know." Dr. Hardy was Chairman of the Sub-Committee on Speech Pathology, NESPA (National Examination in Speech Pathology and Audiology) in 1967 and was a member from 1964 to 1968. He is now Chairman of the Committee on Clinical Standards.

Suggestions for additional student seminars should be submitted to Sally Peterson.

The student lounge has recently been subjected to the melodious strains of Thornton, Chial, Berrett and Co. Recent renditions have included "Fie on Goodness" and a mangled version of "Waltzing Matilda". Any requests for special numbers will be gratefully accepted by this hard-working, tone deaf group of talented youngsters, whose motto is always "We're easy to please."

A SPECIAL STUDY INSTITUTE on "Management of School Aged Stutterers" was held

in Coralville on March 12-14, 1970. The principal speakers were DR. HAROLD LUPER, University of Tennessee, DR. BRUCE RYAN, Monterey Speech and Hearing Institute in California, and DR. DEAN WILLIAMS, University of Iowa. The primary emphasis throughout the conference was upon therapeutic procedures with video-tapes illustrating specific techniques. Dr. Luper stressed the need for accurate observation and theory construction in therapy. Dr. Ryan was mainly interested in showing the importance of rewarding the desired behavior, and Dr. Williams talked about the findings of the Stuttering Research Project and how they relate to therapy with the stuttering child. A number of small group and panel discussions were also held among the speakers and the 55-60 speech clinicians who attended from throughout the state of Iowa.

CHUCK FLOWERS has been appointed to Committee C of the University Committee on the Treatment of Human Subjects. This committee screens research proposals for the Departments of Psychology, speech pathology and Audiology, Education and Sociology. The committee reviews copies of research proposals to insure that human subjects are properly informed about experiments in which they take part and that no harm comes to them.

1970 SUMMER RESIDENTIAL PROGRAM: Each year the attempt is made to fashion the format of the Summer Residential Program in accordance with the experience gained from the last SRP. It certainly appeared that having ten full-time counselors who were totally responsible for the children and for the entire activities program was an improvement over the former use of five house counselors and then a recreation staff. There was a much closer contact between a given counselor and the five or six children in his group, and problems were spotted and taken care of very rapidly. Recreational activities were also tailored to the age group, and the children participated more and seemed to enjoy this freedom of choice. This aspect of the program--10 counselors and 50 children--will be continued this year.

In response to the training needs of those students who have signed up for clinical practicum hours, there will be a heavy loading this summer of clients in the areas of cleft palate, stuttering and aural rehabilitation. There will also be a few clients in the other pathology areas. After careful analysis, it was felt that about 35 children would be adequate to meet the training needs of our student clinicians. Once this had been determined, it was decided to join forces once again with the Reading Clinic. Dr. Joyce Hood, who is in charge of this program, wished to establish a Summer Reading Clinic similar to our SRP. This summer, 15 children with reading problems will join us at the DU house. They will have their own full-time program at the University School all morning, and have individual help in the early afternoon. Then, they will return to DU house, and join in the regular recreational activities. This represents a considerable change from the last time that children with reading problems joined the program in that they now will have a full day's work as compared with the one hour of help they formerly received. It seems as though there will be a much better integration of the two programs, and we think that it should work out well.

Work continues to move forward in getting the clients signed up and in finding all of the funds that are necessary to run the program. The Social Work Staff will be particularly busy this year in that the room and board

fee and the tuition fee have both been raised, and they will be working all the harder in order to come up with the necessary dollars. With a very generous allocation from the Easter Seal Society, we are sure that we will be able to continue with our record of never having turned a child down for lack of funds.

Swimming, arts and crafts, and music will continue as planned recreational activities, and the plan is to continue allowing the campers and the counselors free choice of the evening recreational program. The University offers many activities that are enjoyable, and sometimes a "quiet night" is chosen in order to plan for future group activities.

In the May issue of the Newsletter, we ought to be able to give a progress report which would include the names of most of the people who will have been employed to work with us in the SRP 1970.

THE VAN DEMARK'S will travel to Aarhus, Denmark, on May 19, 1970 to conduct research in the area of cleft palate. This research has been made possible through the support of the University of Iowa with a research appointment for one semester, Grant DE0853, National Institute of Dental Research, and the American-Scandinavian Foundation, George C. Marshall Fellowship.

A Summer Conference on "Research on Voice Physiology" will be held in the Speech and Hearing Center on July 10 and 11, 1970. The conference is being jointly sponsored by the Departments of Speech Pathology and Audiology, the Department of Otolaryngology and Maxillofacial Surgery, and the School of Music. The conference speaker and participants include James F. Curtis, University of Iowa; David R. Dickson, University of Pittsburg; Brian F. McCabe, University of Iowa; Thomas Shipp, San Francisco V.A. Hospital; and William Vennard, University of Southern California. The conference will be open to the public. The conference has been planned by James Curtis and official announcement including all pertinent details will be available the latter part of April.

VISITING LECTURE SERIES: Harris Winitz, University of Missouri at Kansas City, will present a lecture entitled "Behavioral Phonetics with Special Reference to Retention" in the auditorium of the Speech and Hearing Clinic at 8:00 P.M. Thursday, April 9.

The SPEECH AND HEARING CLINIC LIBRARY will be open daily during the spring break, March 30-April 3, from 1:00-5:00 P.M.

The ISHA CONVENTION is being held in Ames at the Iowa State University Campus in Makay Hall on Saturday, April 11. Several people in the Department are planning to attend and students interested in going are welcome. If you would like to go and need a ride, contact Breta Lawshe or James Hardy.

Professional Activities of Members in Department

In attendance at an ABESPA meeting in Washington, D.C., on March 15-16 were Dr. Moll, Vice-President for Standards and Ethics, Dr. Hardy, Chairman of Committee on Clinical Standards, and Dr. Williams, Vice-President of ABESPA.

JUDITH HARRINGTON and DON TRUBEY will lead discussion groups on The Application of the Principles of Behavior Modification to Speech Therapy at the Spring meeting of ISHA on April 11th in Ames.

PENNEY KLOCKSIEG, MARLENE RUHLAND, and JOANNE SCHWARTZ visited Kansas University in Lawrence, Kansas on March 2-3 to observe the Head Start Language Program and general clinical activities.

HUGH MORRIS presented a lecture entitled "Modern Management Procedures for Cleft Palate" at Northern Illinois University in De Kalb, Illinois, on March 14, 1970.

JOEL WERNICK presented a lecture on "Effects of Efferent Neural Pathways to Cochlear Nucleus" at the Medical Center, University of Minnesota, on February 27 and a second talk to the Department of Otolaryngology at the Medical Center entitled "Single Unit Responses to Complex Auditory Stimuli" on February 28.

Departmental Research and Publications

DIAGNOSTIC-PROGNOSTIC RESEARCH IN CLEFT PALATE SPEECH: (Cleft Palate Research Project - Duane Van Demark) The purpose of this investigation is to compare the articulation ability and the velopharyngeal adequacy of cleft palate subjects in Denmark with those subjects currently studied in Iowa. Information will also be gained on subjects comparable to the research done by Drs. Morris, Schweiger, and Demjen in Bratislava, Czechoslovakia. Two basic differences are of import in the study of these children. 1) Surgery is done by one individual Poul-Fough Anderson, in Denmark. 2) Children in Denmark are eligible for residential speech therapy at age four. The majority of children in Iowa do not receive speech therapy until they have entered first grade and the effects of early speech training will be considered as a variable in the comparison of the two groups. Since the Royal Dental College is also in Aarhus as is the National Institute of Speech Pathology, it is hoped that good observations and also additional research projects will be completed during this time. The complete project will cover one year of research work and it is also hoped that during this year various observations will be made at other cleft palate centers on the continent.

A PHONOLOGICAL ANALYSIS OF CHILDREN'S MISARTICULATIONS by Stanley Hutton (M.A. thesis, February, 1970) The purpose of this study was to illustrate the use of generative phonology in the analysis of children's misarticulations. Two five year old boys exhibiting moderate to severe functional articulation problems were chosen as subjects. Their single word responses to picture stimuli were phonetically transcribed and their initial consonant and consonant cluster misarticulations were analyzed within a generative phonology framework.

The following principles, important to the study of developing phonological systems, were supported by the grammars presented in this paper.

1. The child's degree of intelligibility appears to be reflected by both the complexity and the number of rules needed to describe the child's overt articulatory output.
2. Children form unique phonological hypotheses about their developing language system.
3. Consonant clusters appear to be produced as sequences of single consonants rather than whole units.
4. In most cases, phonological principles operate on classes of sounds rather than individual sounds.

Possible clinical tests of the above principles were suggested and applications of these principles to articulation therapy were suggested.

DOROTHY SHERMAN has written a critical review of the "Goldman-Fristoe Test of Articulation" (Circle Pines, Minn.: American Guidance Service, Inc., 1969), which is in press for publication in Professional Psychology, one of the journals of the American Psychological Association.

"SOME RELATIONS BETWEEN TEMPORARY THRESHOLD SHIFT AND TEST FREQUENCY" by R. David Nelson (M.A. thesis - January, 1970) The purpose of the present investigation was to determine the frequency region of maximum temporary threshold shift (TTS) produced by a low-frequency octave-band exposure noise (355 Hz to 710 Hz). Ten subjects (five male and five female) with normal hearing were exposed to the octave-band noise at 105-dB coupler sound-pressure level (SPL) for 10 minutes on 12 different sessions and at 115-dB coupler SPL for 10 minutes on 12 different sessions. Following termination of the exposure signal, the subject tracked threshold (Bekesy Audiometer) for 12 minutes. The amount of TTS (the difference between pre-exposure and post-exposure threshold) was measured at 18 test frequencies. The test frequencies ranged from 630 Hz (1/6 octave above the center frequency of the noise band) to 4500 Hz (3 octaves above the center frequency of the noise band).

The findings of this investigation were: (1) For the test frequencies measured during the first 3 minutes of the recovery period (710 Hz, 1000 Hz, 1400 Hz, 2000 Hz, 2800 Hz, and 4000 Hz) TTS plotted against the logarithm of time showed a diphasic recovery pattern. The TTS for each frequency during the first three minutes reached a minimum at approximately 1 minute and a maximum at approximately 2 minutes and 15 seconds after cessation of the exposure signal. The increase in TTS observed near 2 minutes and 15 seconds was more marked for the high-frequency test signals. The shape of the recovery curves suggests that if an investigator elects to estimate TTS at 2 minutes in the post-exposure recovery period, from TTS measurements made at other times in the recovery period, he should be aware of possible estimation errors. (2) The frequency pattern

of TTS (TTS plotted against test frequency) showed a broad region of TTS that had a maximum at 1000 Hz or 1 octave above the frequency of the octave-band exposure signal. Individual's variability was observed in the frequency region of maximum TTS. The frequency pattern of TTS for the subjects also showed a minimum region of TTS. For a limited range of test frequencies, the threshold measured in the post-exposure recovery period was more sensitive than that measured in the pre-exposure recovery period.

Editorial

DIAGNOSTIC FIELD CLINICS: Each year the Iowa State Services for Crippled Children, which is federally funded, conducts approximately 65 diagnostic field clinics throughout the state of Iowa. These consist of 28 general field clinics and 31 specialized clinics (11 ENT, 15 cardiac, and 5 high risk) which are limited to children who have particular problems needing a special diagnostic staff and facilities.

Speech and Hearing consultants are members of the staff of all general and ENT clinics. All Iowa children under 21 years of age are legally eligible for these free diagnostic services. A referral from the child's local family physician is requested for admission to a clinic and the name of the child's local speech clinician or dentist, to whom a confidential report and recommendations can be sent is obtained.

The local communities play a vital role in this diagnostic program. The clinics are held only at the invitation of and with the approval of the county medical societies of Iowa. Announcement of forthcoming clinics is made in the local and area newspapers and other communication media. The clinics are held in community buildings such as schools, churches, or hospitals. This community participation in the field clinics also involves the individuals who volunteer their services at the clinic site. These volunteers, many of whom are members of local service organizations, work as escorts, recorders, and examiners' assistants. This coordination of the SSCC staff and community workers begins about 6 months before a clinic and continues after the field clinic is over. Field representatives of SSCC, who live in the area, follow the patients locally to help with implementation of recommendations.

In general, the procedure for a field clinic is as follows. The registration, which is supervised by SSCC medical-social consultants includes assigning the patient a registration number and checking information such as name, address, and local doctors' names. The child puts on a dressing gown and robe and his height and weight are measured. He then returns to the waiting room where the patients are called in the order of their registration numbers for the examinations with those specialists who can best evaluate the particular child's problem. Any examiner who feels that the child should be seen by another specialist for whom he has not been scheduled, may so indicate on the registration chart and that child will automatically be referred to the specialist. After each examination, the examiner notes appropriate information on the chart and then records detailed information on a Dictaphone. These Dictaphone recordings are transcribed at the SSCC offices in Iowa City and then are included in the patient's permanent record. Specialists who serve as examiners at the field clinics include pediatricians, cardiologists, ECG technicians, otolaryngologists, physical therapists, ophthalmologists, pedodontists, clinical psychologists, speech and hearing consultants, and medical-social consultants.

Some graduate students in speech pathology and audiology are given the opportunity to go on one field clinic as observers. Audiology students have been going to the ENT Field Clinics as examiners under the supervision of Dr. Anderson and the Department of Otolaryngology. The first day for the graduate student in speech pathology is usually spent observing and occasionally participating in the speech and hearing evaluations (averaging 25 evaluations per day). These evaluations involve obtaining a history of the speech or hearing problem, administration of speech and hearing testing, and consultation with the parents concerning the findings of the examination and recommendations for future management. The second day is spent in observing the other specialists. These people encourage questions from the speech and hearing student and are more than happy to discuss and explain their examination.

The speech and hearing student returns from a field clinic physically and mentally exhausted. But this is an opportunity for the student to integrate the wealth of information he has been receiving in classes for the past several years. The pieces of the puzzle begin to fall into place: etiologies of speech and hearing problems, roles of parents and teachers, differential diagnoses of problems, parent counseling, medical referrals, recommendations for remedial programs to parents, speech clinicians, and special education directors, etc., etc. At last many memorized facts are no longer useless; they are needed and needed immediately! There is a reason for being a graduate student in speech pathology, there is a purpose for courses, and there is a goal ahead.

Field clinics have been under way since March 10 and will end in November. The schedule for the remainder of the year is as follows:

<u>Date</u>	<u>Location</u>	<u>Date</u>	<u>Location</u>
April 8	Sac City	July 23	Carroll
April 9	Boone	August 18	Spirit Lake
April 22	Spencer	August 19	Fort Dodge
April 23	Mason City	September 23	Storm Lake
May 13	Red Oak	September 24	Denison
May 14	Knoxville	October 1	Clinton
May 26	Dubuque	October 6	Ottumwa
June 3	Decorah	October 7	Keokuk
June 10	Cherokee	October 22	Sheldon
June 11	Fort Dodge	October 23	Algona
July 8	Creston	November 5	Charles City
July 9	Marshalltown	November 18	Atlantic
July 22	Council Bluffs	November 19	Newton

Several students will be contacted to attend these field clinics. If you are interested and have not been notified call Carl Betts (3-3649).

Alumni Notes

NORMA ANSHER CRANBERG (M.A. 1948) recently celebrated over 20 years in private speech and hearing practice in Des Moines.

ANN HICKERSON (B.A., 1959) is working as an audiologist at the Manhattan Eye, Ear, and Throat Hospital in New York City.

PATRICIANNE BALDRIDGE SLAUGHTER (B.A., 1944) is working as a speech therapist with the Frederick County Schools, Maryland. Patricianne is also doing advanced work at Columbia Teacher's College, University of Maryland.

BARRY N. SMITH (B.A., 1959) is Program Consultant, Care and Treatment Department, National Easter Seal Society for Crippled Children and Adults, Chicago, Illinois, as of December 1, 1969.

MARY LOU STARKWEATHER (M.A., 1968) is enjoining her second year as a speech therapist with the Fresno County Schools Special Education Department in California.

THE OFFICIAL STATE PUBLICATION OF THE WENDELL JOHNSON SPEECH AND HEARING CENTER
LOCATED AT THE UNIVERSITY OF IOWA IN IOWA CITY
OR
THE ANNUAL SHC TRIBUTE

Patrick J. Carney, Editor in Chief

April 1, 1970

FOOTS IS STILL THE BEST ADMINISTRATIVE ASSISTANT WE'VE EVER HAD!!!!
(See story on Page 7)

COMET SIGHTED

Iowa City (ZIP) - Harrington's comet has made its second appearance across the WJSHC. During the fall of 1969 it burned brightly with its tail always aimed at the sun. Now it can only be seen after dark or on Monday evenings. Officials say it will not be visible after June 1970 for another five years.

FOLLICLE FOLLY

Iowa City (AP) - Although the U of I has been slow to come to life in this age of transplants, the Dept. of Speech Pathology will soon become active in this area, it was announced today. DC Spriestersbach in a press release indicated hair transplants. The fresh donors are rumored to be Art Compton and Stan Hutton, and the recipients are Doug Miller and James Hardy respectively. These procedures will be attempted upon the completion of a pilot project in which hair from the head of Denise Miller will be inserted into the jowls of A. Small. D. Van Demark has already expressed a desire for such transplants. Don Trubey was asked if he would be interested, or was he only half trying to sport a moustache. Trubey responded, "No, it just looks that way."

NO-NO-NO

SHC (OOPS) - No injuries were reported in a recent accident at the WJSHC. Jim Curtis walked over Art Compton. Jim did not remember walking into anyone and Art did not know that he had been run down. Ebud is still telling the story for the first time.

CAT BURGLAR APPREHENDED

Iowa City (NAB) - Joel Wernick, alias the Frito Bandito, was finally caught in the act of permanently borrowing laboratory equipment. When presented with the evidence, the suspect just grinned and shrugged his shoulders. The bandito was surprised by A. Small and H. Rainbolt who locked themselves in the equipment cupboard of 319 and waited for the commission of the crime.

AID TO EDUCATION

Iowa City (\$\$) - In the wake of growing feelings in governmental circles that the fight against inflation necessitates a curtailment of student grants and fellowships, the students at the University of Iowa have again shown their determination to remain in school. D. Nelson has become a part-time barber, Milo and Vic have incorporated a liquor business, D. Trubey is a cigarette salesman, and D. Kinsey is selling used hearing aids left in Room 101. Still others have turned to a profession with less prestige. According to reliable sources, two VW front seats, a car battery, a Japanese tape recorder, and a VOM have all been donated to support the graduate students of U of I.

OLDIES BUT GOODIES

Des Moines (YRS) - The Board of Regents of the State of Iowa has taken an unprecedented step of granting tenure to selected graduate students. Congratulations, Mike Murphy! The names of Doug Miller and Dave Nelson are being submitted at the next regents meeting.

CURRENT RESEARCH NEARING COMPLETION AT U OF I DEPT. OF COMMUNICOLOGY

The Chairman of the Speech Pathology Dept. has been awarded a non-renewable, non-refundable grant by the NIH to study the production of orally generated nonspeech sounds. According to the grant application, a secondary purpose of the proposed research will be to determine listeners' reactions to such sounds.

Hugalett Morris has devised a new speech clipping device which will be of considerable interest to stutterers. Upon the initial unveiling of the device to Boye Institute Morris demonstrated by speaking into the microphone, "Hu-Hu-Hu-Hugh M-M-Mo-Morris" and, miracle of miracles, the output from the device was Hugh Morris.

Dorothy Sherman, who became noted several years ago for advocating backward play of speech samples for nasality judgments, continues to demonstrate her seemingly never-ending ingenuity. She is taping and playing her lectures backwards. Her hypothesis that intelligibility does not decrease with backward play has been shown at the .001 level of significance--in fact, her students have been unable to detect the backward play from the forward.

Marie Emge has announced intentions to launch an introspective study of adolescent voice change. It has been suggested to her by several authorities that there may be some methodological problems. Undaunted, Marie is going ahead and has let it be known that any staff member who needs a job security publication can certainly pitch in and receive credit as a junior author.

James Curtis, who has been with the Dept. between ski-weekends and summer camping trips, has STROL-ed to Florida.

JEWISH STUDENTS PICKET SHC

Students are picketing the vending machines until authorities agree to stock kosher beef sandwiches and pickles.

A N N O U N C E M E N T S

THE TEXAS WING TIP CLUB will meet tonight to vote on the replacement of one of its members. It is rumored that Ed Conture is replacing the long-time member, Stan Hutton. Voting members are M. Chial, J. Thelin, R. Kent, and T. Wiley.

SMALL may run for School Board again now that the Iowa City System has adopted a hot lunch program.

SAFE DRIVERS CLUB is dissolving its membership, President Sally Peterson stated to reporters today. The reason given was that the members had no transportation to the meetings. Members included Carole Blanton and Ellen Dustman.

PSYCHOACOUSTICS LAB sweat shirts are in and may be picked up from Meta at your convenience.

MICKE MURPHY remembers when the department didn't have training assignments.

WHO DOES IT?
Flunking Lab Instrumentation? Call Suiki.
Typing- Call Margreth Semut.
Procofreeding- Varana Wade.
Ears Pierced, noses bobbed, chins restored, ears shaped- See Bernstein, Univ. Hospitals. (Put out cigarettes before entering.)
Have a Hearing Loss? See Charlie.
Guaranteed Results, open 8 to 5 pm daily, SHC.
WANTED
A Party- Contact Mary Bowstead and/or Bob Kaiser.
Aphasics- Contact Freta.
An office, any office. Call DT.
Lost my ASS, return to 313. DJL.
Clinical Department wishes to double its staff for the summer residential program. Need 1/2-time clinician, preferably speech clinician who can do artic therapy.

SPORTS SECTION

CONGRATULATIONS, GIN WINNERS!

Marcia Kaiser has been selected as gin champion of the lounge for her 436-2 card game record. Mary Bowstead also shares the honors for her abilities of unusual consumption.

NEW RECORD BROKEN

The psychoacoustics lab has set a new record. They have completed the number of hours required for the semester in only two weeks.

BEAUTY CONTEST

The Harman-Polack Ratio, originally calibrated by D.J. Lilly and now kept in the National Bureau of Standards, was utilized for the selection of this year's winner of the WJSHC Beauty Contest. Mike Chial presented the awards to Barbra Espey for the highest ratio of 10.0 and to Marilyn Crafton who won hands down the position of lowest ratio, .0001.

AXE-SWINGING OLYMPICS

In a warm-up match for the Olympics, Bruce Ryan clicked three on his counter as he felled Lee Woods, Dean Williams and Ehud Yairi. In a second match Ken Moll lobbed off Jeff Knox and Doug Miller and chipped about \$1000 off Berrett's block.

BIKES-a-GO - GO

The Peter Fonda Motorcycle Award was presented to David Lilly who won on his four-speed English racer by default. Other contestants in the race included: Harry Rainbolt who couldn't get his bike started; Lynn (the Red Baron) Tschirner who couldn't get her uniform on; Joel Wernick who took the wrong route; Terry Wiley who was stopped by the Iowa Public Service who insisted his bike was company property; Terry Fouts who mounted his musical horns and, to no one's surprise, proceeded to blow his cools; and Dave Kuehn who entered the contest but could not come because he had to finish a lab. When Lilly was interviewed after his fabulous finish, he said, "It's all in the calibration; my bike is tuned up to the ANSI standard."

FUNDS APPROPRIATED

The Board of Regents has approved funds to convert the Speech Science Laboratory into a handball court. It is hoped that this will allow the faculty to spend their time there.

HAPPY HERMITS

The Hermit of the Year Award for successfully hiding out on the 3rd floor for the past year goes to Rich Klich and Dave Kuehn. Both candidates will receive an all-expense-paid trip to the lounge and will be instructed in the use of the coffee and coke machines.

HIC

Mike Chial, Ray Kent, Jean (the Wino) VanLue, and Steve Giles have been nominated for the WJSHC Drinking Team.

DIETARY DECATHLON

Don Price will referee and judge the diet contest between Sally, Joanne, and Lynn.

THAT-A-WAY AARON

Aaron Thornton wins the Mormon Gymnastics Award for being the only person able to put both feet in his mouth and still talk.

DIRTY OLE MILO

A poll was taken among the female grad students to determine the most lecherous male in the department. The dirty ole men nominated were Vic Berrett, Carl Betts, Dean Williams, Don Trubey, Jerry Carney, and Milo Waddoups. It was a tough decision but Milo won. The other candidates erected a tribute to the winner.

THE DELIGHTFUL DIGIT

The Flying Fickle Finger of Fate Award (made retroactive for the past eight year) goes to Arnold Ziffel Small for unreasonable expectations, for giving credit in publication for student efforts, and for being an all-round nice guy. Congrats.

JOANNE OVER HARRINGTON

It is said that Judy Harrington's monologue cleared the lounge in 45 minutes and the entire building in 2½ hours. Joanne Schwartz says she can do it in 20 minutes.

HONORS

James Curtis was recently awarded Honors of the American Speech and Hearing Association for his invention of the Double standard.

TIME CONSULTANTS

The National Bureau of Standards Time Station (WV) in Ft. Collins, Colorado has appointed A. Thornton, M. Chial, and L. Tschirner as time consultants for Central Standard Time; D. Fields and D. Trubey for Mountain Time; A. Compton and J. Wernick for Bar Time; and A. Small for No Time.

ENTERTAINMENT SECTION

<p>Now showing at the Iowa</p> <p>James Curtis in "COME WITH THE WIND" (as it were: "THE WIND IS GONE")</p> <p>Starts Thursday "BUICH CASSIDY AND THE SUNDANCE KID" featuring A. Compton and J. Wernick</p>	<p>*COMING ATTRACTIONS*</p> <p>Harry Rainbolt in "EASY RIDER" A man went in search of the speech clinic. . . but could not find it.</p>
<p>Cinema I "COLD TURKEY" Directed by Don Trubey. Starring: Barb Espey Jeanne Holub Marilyn Crafton Jim Thelin Marsha Sullivan</p> <p>Cinema II "THEY SHOOT HORSES, DON'T THEY" with J Collins, D Nelson, R Kent</p>	<p>Don Trubey in "EASY REWRITER" A man went in search of his office . . . but could not find it.</p>
<p>ASTRO Double Feature</p> <p>"FANNY HILL" starring Annie "CACTUS FLOWER" starring Don Trubey</p>	<p>NOW! The Movie Version of Fowles' "THE AMERICAN LIEUTENANT'S WOMAN" Introducing DAVID LILLY! The shocking expose of an American officer's stay in France Rated X. Persons under 17 not admitted unless accompanied by faculty advisor</p>
<p>ENGLERT "SLEEPING BEAUTY" with Vic Berrett</p>	<p>Joel Wernick cast in the title role of Tolken's immortal book, "The Hobbits" Also featuring J Curtis as Tree Ent and A Compton miscast as Merry Old Tom Bombadil</p> <p>THE ODD COUPLE starring Carl Betts and Betty Benzies</p> <p>THE GREATEST SHOW ON EARTH FEATURING only Tony Stalano Sees All - Knows All - Tells All - That's All!</p>

R I D D L E S ! ! !

What has eyes but cannot see?
 What is Hebrew and has perfect fluency?
 Why does it take 50 students to run a Small lab?
 What is black and white and red all over?
 What is bald and lies at the bottom of the ocean?
 What does Tony Staiano say when he runs down the hall playing helicopter?

T H E A N S W E R M A N

Send questions to H. N. Jordan.
 Q. Is Buster Brown still alive?
 A. Buster Brown is alive and hiding in 309.
 Q. What is Jean's real name and why doesn't she use it?
 A. Gloria Jeanetta VanLue--would you?
 Q. How can one say that just because Stan Hutton is working and has changed his style of dress that he has sold out to the establishment?
 A. Easy. First you approximate the vocal folds, then you
 Q. Is it true that Anderson has not published in the last 5 years?
 A. Of course not. His writings may be found on the walls of any number of Johns.
 Q. Is Aaron Thornton really an alligator?
 A. No, he's a purse.
 Q. Is it true that Elaine dripps, Chuck flowers, and Jeff Knox?
 A. You better ask them.

D I A L O G U E

Moll: Margret, where's Fouts?
 Margret: He's in the conference room.
 Moll: Where's the conference room?
 Margret: In Melrose's office.
 Moll: Where's Melrose?
 Margret: He's moved to the office reserved for staff who are checking out.
 Moll: Is Melrose checking out?
 Margret: No, he checked out three years ago.

L I M R I C K S ! ! !

There once was a man from Missouri
 Who sucked his teeth with a fury
 His sounds were unique
 As was his physique
 But then he's more fluent than Ehud Yairi.
 There once was a man named Hardy
 Who never showed at a party
 When asked what was wrong
 He replied with a song
 I'd rather be absent than tardy.

There was an old maid in Iowa City
 Who tended to be an ole biddy
 Her lectures were sad
 Cause the stories were bad
 As a result, her courses were _____
 (Please complete the last line.)

There once was a young lass named Gayle
 Who each day awaited the mail
 She's taking a chance
 By two-timing Lance
 But as she says, a male is a male.

P E R S O N A L S

KM- Use of student phones should be limited to business calls; if you must make personal calls, use the elevator phone. Thank you.
 No, MJC, I don't want an 'A' out of hearing practicum.
 Say hello to Van Denmark!
 LP and DS should consider Bernstein's ad.
 What parameters? JC
 Is it true, Margaret Evans, that you're going to sue Dow Chemicals?
 MB- Go home to the man in the white coat.
 JC- Professor Corey
 What does HM know about the psychic make-up of persons turned on by the /L/?
 Who tossed their cookies in the lounge?
 Happy Vacation, Psych. Acous. Students!
 Is Fouts really horny?
 AC has distinctive features.

F O R S A L E

One CAROUSEL sign; must sell; \$18.50.
 Call MA or PhD after 1970.
 Typewriter Case- makes excellent auto seat. Call Mike.

F O R R E N T

Anechoic Chamber. See KM.
 Henriquel Analyzer. See JC.

DEPARTMENT OF SPEECH PATHOLOGY AND AUDIOLOGY
UNIVERSITY OF IOWA

Newsletter

Vol. 3, No. 3 and 4, April - May, 1970

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: C. Collison, A. Compton, L. Hanau, M. Kaiser, T. Middleton, K. Monkhouse. For additional information, please see Arthur Compton or Kay Monkhouse.

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:

STUDENT PARKING: Because the University parking meters have been removed in the lot adjacent to the football stadium, suggestions for other parking places are needed.

One can complete an application for a parking ramp ticket at the Traffic and Parking Office in the Old Dental Building for the balance of the semester and perhaps the summer session.

Meters are also available in the lot south of the Field House but you must arrive early to secure a space. Price - 5¢ an hour.

A conference on speech and language problems of persons who have suffered from strokes was held on Friday, April 24, at the Wendell Johnson Speech and Hearing Center. The conference was attended by 163 persons from throughout the state who represented a variety of professions dealing with delivery of health care to disabled persons. Physicians, psychologists, vocational counselors, nurses, administrators of intensive care units, social workers, physical therapists and speech pathologists were among those who listened to discussions of the physical cause of strokes, the types of speech and language problems that frequently result from strokes and suggestions for helping the post stroke victim. Miss Breta Lawshe, who organized the conference, demonstrated a number of types of communication problems that are called aphasia. Throughout the conference emphasis was placed upon the need to involve the family in an educational program in order that they may best assist their family member in compensating for and improving his speech and language handicap.

The conference was sponsored by the Department of Speech Pathology and Audiology, Department of Neurology and the Iowa Regional Medical Program. Additional speakers at the conference were Dr. John R. Taylor, Assistant Professor of Neurology and Administrator, Stroke Education Program of the Iowa Regional Medical Program, James C. Hardy and Barbara Moeller. Dr. Shirley Salmon, Assistant Professor of Speech Pathology from the University of Kansas School of Medicine was a guest speaker who demonstrated teaching programs for post stroke patients who initially show little ability to communicate and perform muscular function necessary for daily living activities.

Following a lecture ("Behavioral Phonetics with Special Reference to Retention") by Dr. Harris Winitz on April 9th, the faculty sponsored an informal gathering of students and friends at the Ramada Inn. Gallons of beer were consumed before all adjourned at midnight. It is the general feeling of the students that this type of gathering is an excellent way to meet and talk with visiting members of the profession and wish the opportunity were available more often - with or without free refreshments.

REMINDER: Registration for Summer Session is on Monday, June 15, and classes begin on Tuesday, June 16.

Professional Activities of Members in Department

DEAN WILLIAMS was a guest lecturer on April 9 at the School of Speech and Hearing Sciences at Bradley University in Peoria, Illinois. His topic for a seminar and a general lecture was "New Concepts in the Management of Stuttering." He also led a discussion on "Continuing Education for Speech and Hearing Clinicians" at the I.S.H.A. meeting in Ames, Iowa, on April 11.

DEAN WILLIAMS, MARGARET EVANS and WILLIAM YOVETICH participated as speakers and discussion group leaders at a workshop entitled, "The Public Schools - A Good Place To Do Stuttering Therapy." The workshop was sponsored by the Northern Illinois Speech and Hearing Association and was held in Rockford, Illinois, on April 18.

KENNETH MOLL presented a talk entitled "Normal Articulatory Functioning" at the Wisconsin Speech and Hearing Association meeting in Madison, Wisconsin, on May 1.

HUGHLETT MORRIS attended an Editor's conference at the Information Center on Hearing Speech and Language Disorders at Johns Hopkins University, Baltimore, Maryland, on April 29.

HUGHLETT MORRIS and ROBERT KREMENAK attended a conference in Ann Arbor in early March sponsored by the Joint Committee for Dentistry and Speech Pathology and Audiology. The conference was on oral-facial disorders and was attended by dentists and speech pathologists from all parts of the country. Hugh Morris will serve as Editor of the conference report.

JIM ABBENHAUNS, JERRY CARNEY, JOE CLAWSON, STEFAN DEMJEN, ROBERT KREMENAK, HUGHLETT MORRIS, WILLIAM OLIN, SALLY PETERSON, JAMES SCHWEIGER, LARRY SEVEREID, and JEANNE SMITH attended the 1970 meeting of the American Cleft Palate Association in Portland, Oregon. William Olin was President of ACPA during 1969-1970. Hughlett Morris retired as Editor of the Cleft Palate Journal after holding that position since 1964. Robert Kremenak is the new chairman of the ACPA membership committee. Authors of papers presented at the meeting were Jerry Carney and Hughlett Morris, Larry Severeid and Brian McCabe, and Robert Kremenak and Stefan Demjen. Jeanne Smith was a secretary at one of the scientific sessions and Hugh Morris presided at one of the round table discussions.

BRETTA LAWSHE presented a lecture on "Adult Rehabilitation" to students enrolled in the Medical Information Core Curriculum on May 7. On March 31, she also attended a conference on "The Use of the Family as Supportive Personnel in Speech Therapy," in Santa Barbara, California.

ARTHUR J. COMPTON presented a lecture on developmental phonology to the students and faculty in the Department of Linguistics at the University of California in Berkeley on April 3.

DAVID LILLY and ARNOLD SMALL attended the 79th meeting of the Acoustical Society of America in Atlantic City, New Jersey, from April 21-24. Arnold Small was also a participant in deliberations of the Editorial Council and the Committee on Education.

Social Announcements and Personals

DEBBIE LAWHORNE and JACK CHAFFEE plan to be married this fall. Jack is a senior in civil engineering at Iowa.

CAROL RYE is engaged to Steve Hoth who is a senior in social work at Wartburg.

CHERI MAXWELL will marry Vern Potts on June 21. They will live in Japan while Vern completes his tour of duty in the Air Force.

LIZ BOYSEN and KEN KOCH will be married on August 21. Ken is a first year dental student at Iowa.

ANN HANKEN will marry Robert Briggie on May 31. Robert is working on his doctorate in Spanish.

JAN SCHWARTZ has been selected for membership in Mortar Board.

BON VOYAGE to Janie and Ehud Yairi who are leaving on May 22nd for a few weeks in Israel. They plan to spend three days in New York visiting Janie's family before flying to Tel Aviv.

An all-encompassing tour of Israel is planned, with a visit to Ehud's family heading the list of priorities. Of special interest will be a tour of the old city of Jerusalem and a detailed inspection of the new Speech and Hearing Clinic which was opened just this year at the University of Tel Aviv.

Janie plans to return to Iowa City for summer school (she says with a great suntan!) before she and Ehud leave in August for Lubbock, Texas, where Ehud has received an appointment as Assistant Professor in Speech Pathology at Texas Technological University.

SALLY SCHNEIDER and JIM THELIN announced their engagement on April 7, 1970. Both are students working toward M.A. degrees - Sally in Speech Pathology and Jim in Audiology. They plan an early August wedding in Iowa City.

DENISE MILLER and MARK SELIGMAN announced their engagement shortly after Easter recess. Denise is an M.A. degree candidate in Speech Pathology. Her fiancé is a junior medical student. They plan to be married on August 15, 1970, in Peoria, Illinois.

SUE STRATHMAN and JERRY SNEIDERS have announced their engagement and plan to be married on August 8, 1970, in Pocahontus, Iowa. Sue is working toward an M.A. degree in Speech Pathology and plans to graduate in May. Jerry is an undergraduate student majoring in Geology.

STUDENTS gathered at the Pub on April 15th to say an informal "goodbye" to Mary Jane Collins.

Departmental Research and Publications

TEMPORAL AUDITORY INTEGRATION IN NARROW BAND NOISE by Mary Jane Collins (Ph.D. thesis, May, 1970) The purpose of the investigation was to evaluate the effects of narrow band noise on temporal auditory integration of a sinusoidal signal. Using a method of constant stimuli in a two interval temporal forced choice paradigm, sound pressure levels for constant detectability ($d' = 1$) were obtained. The signal was a 1000 Hz sinusoid whose durations were varied (5 to 200 msec) and presented in a background of continuous noise of varied bandwidth (5, 50 and 300 Hz), but constant spectrum level (60 dB SPL re .0002 microbar). Eight normal hearing young adults served as subjects.

The results indicate that the auditory system is able to integrate signal energy from 5 to 100 msec and that the rate of integration tends to increase as masker bandwidth decreases. Estimates of critical bandwidth for masking (made from determinations of sound pressure level for constant detectability as a function of masker bandwidth) indicate that there is an increase in critical bandwidth as signal duration decreases.

In the presence of the 30 Hz noise band, energy levels for constant detectability as a function of signal duration vary in a manner which can be explained if the critical bandwidth changes with signal bandwidth (duration) over a range from 10 to 100 msec duration. The increase in the rate of integration as masker bandwidth decreases can be explained on the basis of a narrowing of the critical bandwidth for masking as noise bandwidth decreases and is taken to be indicative of tuning of the critical band by masker characteristics. Also, there is evidence that suggests the possibility of a dual critical band system, with one critical band for signal integration and another, greater in magnitude, for masking. A model is presented which assumes a dual critical band system which can be tuned by either masker or signal characteristics and which appears to adequately explain the present data.

A CINEFLUOROGRAPHIC-SPECTROGRAPHIC INVESTIGATION OF THE COMPONENT GESTURES IN LINGUAL ARTICULATION by Ray Kent (Ph.D. thesis, 1970)

The purpose of this study was to investigate configurational and dynamic constraints in speech articulation using the techniques of cinefluorography and spectrography. The cinefluorographic films were taken with a lateral perspective at a rate of 150 frames per second, and the spectrographic analyses were performed on acoustic recordings that were obtained simultaneously with the films. Tongue-body movements in the films were described by means of a point parametrization of the lingual surface in the midsagittal plane. This parametrization was accomplished by attaching small radiopaque markers to the tongue of each speaker. With this approach, the displacement patterns of the tongue markers describe the direction and extent of tongue motion, and the rate of change in position for a given marker serves as an index of articulatory velocity. In addition to the analyses based on point parametrization, measurements were made for various dimensions of vocal-tract configuration.

Two major hypotheses underlay the design of the study.

(1) The closure and release gestures associated with an intervocalic lingual consonant are executed within time intervals that are relatively invariant with changes in vowel context and speaking rate. The neuromuscular control of such articulations thus exhibits a constraint on the duration of movement.

(2) The dynamic invariance in the case of vowel and diphthong gestures is a restriction on the velocity of tongue-body movement: there is a distinct and invariant velocity for a given motion of the tongue-body articulator. This "characteristic" velocity is independent of speaking rate and the phonetic consequence of the movement (i.e., whether the articulation represents a diphthong or a transconsonantal vowel-to-vowel transition).

Observations were made for two speech samples, one primarily for examination of consonant articulations and the other primarily for examination of vowel and diphthong articulations. Two speakers were used for each of the two speech samples. The speech sample for study of consonant articulations consisted of symmetric VCV (vowel + consonant + vowel) utterances where C is a lingual stop, fricative or glide. For the most part, utterances in the speech sample for examination of vowel and diphthong gestures were sets of words that were presumed to have a similar tongue-body articulation but a different role of this articulation in the phonetic sequence, i.e., a diphthong vs. a transconsonantal vowel-to-vowel transition.

The results confirm the experimental hypotheses in some respects but not in others. Generally, for all the articulations under investigation, variations in speaking rate had relatively little effect on the velocity of articulatory movement. The data for intervocalic consonants revealed that although the velocity of a consonantal articulator depends on vowel context, there is only a gross correspondence of the transition durations for a given consonant in different vowel environments. For vowel and diphthong gestures, the data suggested the presence of both intrinsic physiological constraints and phonemic conditioning in the determination of dynamic characteristics. Typically, a diphthong gesture was slower

than a comparable transeonsonantal vowel-to-vowel transition. With increases in speaking rate, undershoot was noted for both vowel and diphthong articulations, and it appeared that a velocity constraint on tongue-body movements may explain the occurrence of undershoot effects.

The data also were analyzed to evaluate such articulatory characteristics as physical adjacency constraints on the tongue and the synergy between tongue and jaw. Regarding the former, it was possible to demonstrate that essentially the same shape of the tongue body obtains for different vowels, despite variations in tongue height and antero-posterior positioning of the tongue mass. Regarding the latter, procedures were employed to eliminate the jaw-dependent component in lingual displacements and thereby assess the contribution of mandibular articulation to various tongue gestures.

PERCEPTION OF PARENTAL ATTITUDES BY STUTTERING AND BY NONSTUTTERING CHILDREN by Ehud Yairi (Ph.D. thesis, January, 1970) The purpose of this investigation was to study parental behavior and attitudes as perceived by stuttering and nonstuttering boys.

The CRPBI (Children's Report of Parent Behavior Inventory) Mother and Father Forms were used in measuring perceived parental behavior. Two scales were constructed and added to the original inventory: (1) Scale of Positive Attitudes Toward Speech, and (2) Scale of Negative Attitudes Toward Speech.

The subjects who participated in the study consisted of 34 male stutterers (17 mild and 17 moderate/severe) and 34 male nonstutterers. All subjects were in sixth and seventh grades of elementary school and between the ages of 11 years 6 months and 13 years ten months. For each stutterer, a nonstutterer was matched according to grade, age, academic achievement scores (according to the Iowa Test of Basic Skills), and social economic status in terms of father's education.

Each subject completed both the CRPBI Father and Mother Forms. The main analyses included comparisons between (1) the scores of the two groups of subjects on each scale of the Father Form, (2) the two groups' scores on each scale of the Mother Form, (3) the stutterers' scores on each scale of the Father and Mother Forms, (4) the nonstutterers' scores on each of the two forms, (5) the scores of the mild and moderate/severe stutterers on each scale of the two forms.

Significant differences between stutterers' and nonstutterers' scores on the Father Form were found for the scales of Possessiveness, Control Through Guilt, and Hostile Control. In all cases the nonstutterers perceived Father to employ more of the behaviors measured by the scales. Significant differences between stutterers' and nonstutterers' scores on the Mother Form were found for the scales of Possessiveness, Control, Intrusiveness, Hostile Control, Instilling Persistent Anxiety, and Negative Attitudes Toward Speech. In each instance the nonstutterers perceived Mother to employ more of the behavior measured by the scale.

Significant differences between stutterers' scores on the Father and the Mother Forms were found on scales of Acceptance, Child Centeredness, Possessiveness, Positive Involvement, and Positive Attitudes Toward Speech. Similarly, significant differences on the

nonstutterers' scores on the two forms were found for the scales of Acceptance, Positive Involvement, Intrusiveness, and Hostile Control. In both groups Mother was perceived to employ more of the behaviors measured by the scales.

No significant differences were found between mild and moderate/severe stutterers' scores on the two forms.

The results were discussed and implications for further research suggested.

Editorial: RANDOM REACTIONS TO APRIL 1ST NEWSLETTER

Surprised - unaware that this kind of publication existed.

Some of the digs at faculty members were witty, but some were cruel and unnecessary...hope the publisher was not aware of how cruel some of it was...if it was done maliciously then it was completely out of place - REGARDLESS OF HOW TRUE THE COMMENTS MIGHT HAVE BEEN.

Enlightening and funny.

Too pointed in a few instances but worthwhile humorous reading.

A good way to brighten the atmosphere.

Glad to see that the Muse of spring is able to waft into this bastion of Gaussian noise and Fourier analysis. Will keep my copies of past papers filed along with class notes.

I was extremely upset that students who I previously thought to be intelligent, sophisticated and rational would lower themselves to indulge in gutter-humor of the worst possible kind. Although there may be some truth in the genesis of this humor - these truths are better left unsaid.

Not as clever as last year's "letter." The "Editor-in-Chief" was probably the nincompoop responsible.

In poor taste, not cleverly written and parts were unnecessarily unkind.

Just great - except the part about me.

I thought that this Newsletter wasn't as funny as previous ones. Also, I feel that some of the comments were in poor taste. What I would like to see is a Newsletter that would be specifically directed toward giving students ideas as to how to improve the quality of their training.

The funny one?

I'd like to know where they get their information.

Oh -- I can't remember that far back.

Unfair, must have been done by the audiology students.

I think the faculty probably took it in their stride.

Excellent. I think it should be done again.

Very healthy. Maybe more careful editing would be advisable, though.

I haven't read it.

Are you putting my name in the Newsletter?

Most of it I didn't understand because I'm not a grad student, but some of it was a little nasty.

Is that what "spill the cookies" means?

A bit overzealous, but all of it was probably true.

Don't you think we need some court jesters?

Some of it was funny, some sick. It represents a pervading sickness in the Department with its hostility and aggression.

I really didn't read it that well to be able to comment.

I was offended for some people, but most of it was good.

People can take a joke.

Very funny. A few were unkind. It's O.K. to make jokes of people's opinions, but it's another thing to attack personal physical attributes that people can't help.

What Newsletter?

In my eyes it's apropos to this semester.

I'm glad to see that Terry Fouts is finally getting his reward.

I want to know how they knew whose cookies were spilled!

There should have been more speech path students attacked. I think the audiology students did it and they should get to know the speech path students more.

A lot less subtle than years past.

Pretty well written, but there were a couple of individual items in poor taste.

The kind of tradition that should be continued with maybe a little brightening up of criteria used. In addition, if elected, I promise to bring home the troops from Yale...

I thoroughly enjoyed it. Got a lot of good belly-laughs.

It's hard to draw the line between humor and poor taste at times.

Graduating Students - Ph.D.

MARY JANE COLLINS has accepted a triple appointment beginning May 3 with the V.A. Hospital, Bill Wilkerson Hearing and Speech Center and Vanderbilt School of Medicine in Nashville, Tennessee. Her duties will include audiometric evaluation and diagnosis, teaching courses in audiology and other staff responsibilities. But on Saturday nights, she'll probably be at the Grand Ole Opry.

RAY KENT will be staying in Iowa City during the summer and plans to take a professional position in the fall.

Graduating Students - M.A.

MARY BOWSTEAD plans to be doing something in the near future if someone will make an offer. In the meantime she will be working at Iowa City V.A. until the 1st of July.

SUSAN FREELAND plans to continue school next year while her husband finishes Law School.

MARY PICEK hopes to be employed as a speech clinician in the public school system in North Carolina, where her husband Lou is presently stationed with the Army.

SUE STRATHMAN has accepted a position as a speech clinician in Iowa County Public Schools (Lee Fisher's program).

SUSAN THOMSEN has accepted a position as a public school speech clinician in Clinton Community Schools.

DIANE WILSON plans to be a speech clinician in the Cedar Rapids area.

Graduating Students - B.S. and B.A.

Albrecht, Judith L.
Bolin, Barbara Nelson
Buffington, Cynthia
Collison, Catherine L.
Courtois, Joyce E.
Fairfax, Lyn Manfield
Gilfoyle, David Stanley
Kellogg, Kathleen E.M.

Lang, Diane Jene
Larson, Linda Mae
Lewis, Michael W.
Longman, Gwen Cottingham
Middlebrook, Beverly
Rowden, Sheri Lee
Schlichtemeier, Ann E.
Younie, Kathryn Beth

DEPARTMENT OF SPEECH PATHOLOGY AND AUDIOLOGY
UNIVERSITY OF IOWA

Newsletter

Vol. 3, No. 5, June, 1970

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, M. Kaiser, K. Messer, T. Middleton, K. Monkhouse. For additional information, please see Arthur Compton or Kay Monkhouse.

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

The VAN DEMARKS have reported that they had a pleasant journey to Denmark and that they have settled down to life in Aarhus. He is doing research in cleft palate at the Dental Institute at Aarhus and also expects to spend some time at the Plastic Surgery Institute in Copenhagen.

STUDENT-FACULTY RESEARCH SEMINAR meetings scheduled to date:

- June 25 S. Hutton - "A Phonological Analysis of Children's Misarticulations"
- July 2 R. Kent - "Cinefluorographic-Spectrographic Investigation of the Component Gestures in Lingual Articulation"
- July 9 No meeting (Voice Conference begins July 10)
- July 16 J. Melrose, H. Morris, and M. Emge - "Progress Report on Voice Research"

RAY KENT has been awarded an N.I.N.D.S. Post-Doctoral Fellowship to study at M.I.T. next year.

FACULTY PROMOTIONS in the Department recently approved included ARTHUR COMPTON to associate professor and BRETA LAWSHE to assistant professor.

The conference on RESEARCH ON VOCAL PHYSIOLOGY to be held in the Wendell Johnson Speech and Hearing Center is scheduled for Friday and Saturday, July 10-11. Everyone is reminded that all classes and Departmental activities will be called off during this time so everyone will have an opportunity to attend. If you have not received a copy of the conference announcement, additional copies are available upon request from Tracy Middleton.

DR. MOLL presented the commencement address at Jackson, Missouri High School (his alma mater) on May 29.

Professional Activities of Members in Department

DONALD TRUBY gave a short course on "Behavior Modification: Speech Pathology and Audiology" at Tulane University in New Orleans from June 8 to 19. Approximately 15 people were enrolled in the course which included topics on introductory learning theory, research on operant conditioning in speech and hearing, and group discussions of case reports.

DR'S. ANDERSON, CURTIS and SMITH attended the Iowa Association on Conservation of Hearing meeting in Des Moines on June 12.

DEAN WILLIAMS was a participant in the Special Study Institute, "A Stutterer: Who is He, When is He, Why is He, and What Can We Do?" sponsored by the Kansas State Department of Education held at Wichita State University in Topeka on June 1. His topic for the day was "Iowa Project on Stuttering and Who Is a Stutterer and What Can We Do." On June 25 he traveled to Central Missouri State College, Warrensburg, Missouri as a guest lecturer in the Summer Lecture Series. His topic was "Stuttering Therapy for Children."

Social Announcements and Personals

FOR SALE SOON: one pair of crutches. Write to C. F. Box 2/3 NASHville. Also enclose self addressed envelope for copy of free course in semi-mountain climbing.

WANTED: student clinicians to work with team of other therapists on interesting articulation problems of two eight-year old boys. Virtually all sounds are left except [t], [k] and the initial nasals. Don't wait! Apply now and get the sound of your choice.

KARLA (KINNICK) HANKEY was married in Fort Dodge to Benjamin F. Hankey on June 6. Ben is a music major at the University of Iowa.

New Students and Staff

BARBARA BOLIN joins the ranks of M.A. candidates in Speech Pathology this summer, after receiving her B.S. from S.U.I. last semester. Barb has a special interest in the area of language. Her husband is an Electrical Engineer. The Bolins hail from Cedar Rapids, so Barb is another of the commuter clan.

JANETTE CARROLL returns to Iowa again this summer to work towards her M.A. in Speech Pathology. During the regular school year Janette is a speech clinician with the Cedar Rapids School District. Her husband Stephen is a high school history and English teacher.

LYN FAIRFAX graduated with a B.S. from S.U.I. last semester and is beginning graduate work in Speech Pathology this summer. Lyn's husband, Brian, is a sophomore in Medical School. Consider Lyn dangerous when armed with a tongue depressor.

MARGARET FRANCK is the new clinic supervisor in the Summer Residential Clinic working in the area of Cleft Palate. Margaret received her M.A. degree from the University of Illinois and has worked as an instructor and clinic supervisor at the University of Arkansas and a speech clinician in the Cedar Rapids School System. Her husband, Jim, is a graduate student in TV and Film.

ELAINE KAUTSCH received her B.S. from Mankato State College in 1967 and is currently working toward an M.A. in Speech Pathology. Elaine has been working as a speech clinician in the Cedar Rapids area schools. Her husband is a senior law student.

ANITA LANE received her B.A. from the University of Northern Iowa in 1963 and has since been a speech clinician in Webster and Lucas counties. Anita is currently working towards her M.A. in Speech Pathology and intends to work in Jasper County next year. Her husband is a teacher of Drama and Speech. The Lanes have one son, Bruce Alan.

ROBERT MARGOLIS is from East Tennessee State University where he was an instructor in audiology. He holds B.S. and M.A. degrees from Kent State University and has had an article, "An Item-Difficulty Based Speech Discrimination Test" accepted for publication in JSHR. Robert is currently working towards a Ph.D. in Audiology (Hearing Science). His wife is a teacher.

DONNA MOORE is one of the brave souls we sympathetically refer to as "a commuter." Donna travels to Iowa City from Davenport daily as she gains credits towards her M.A. in Speech Pathology. She received her B.A. from S.U.I. in 1964 and has since been a speech clinician in Hopkins, Minnesota, Portland, Oregon, and in the Muscatine-Scott County School System. Donna's husband is also a student.

CINDY PARSONS is working as Dean Williams' secretary on the Stuttering Research project during the summer. Cindy is from Iowa City and an undergraduate in psychology.

MARGARET ROTH, another cheery face on the summer scene, is at less tumultuous times of the year a speech clinician in Washington County. Margaret finds plenty to keep her busy after 5 P.M. with her 4 children, logs, lesson plans and studying for a summer course - for good measure. Margaret is working towards her M.A. in Speech Pathology.

NANCY SHAMDIN is working on a Professional Improvement program over the summer. She received her B.A. from Grinnell College in 1952 and has since been a "globe-trotter," working as a speech clinician in the Burlington Independent School District, at the Crippled Children's Society, Los Angeles, at the Sagamihara Army Dependent's School, Sagamihara, Japan and in the Washington County and Community School District. Nancy has 4 children.

SISTER ROSEANNE SIEBERT has returned to the Department for her fifth summer of graduate work and plans to complete her M.A. in August. She teaches at St. Joseph's School for the Deaf in St. Louis during the regular school year.

DIANNE VAN TASELL recently received her B.A. from Coe College and plans to continue towards an M.A. in Speech Pathology. Dianne is already notorious for her ability to remember telephone numbers...ask her sometime!

Departmental Research and Publications

"SPEECH CLINICIANS' STEROTYPES OF ELEMENTARY SCHOOL AGE BOYS WHO STUTTER" by Ehud Yairi and Dean Williams has been accepted for publication in the Journal of Communication Disorders.

"GENERATIVE STUDIES OF CHILDREN'S PHONOLOGICAL DISORDERS" by Arthur J. Compton has been scheduled for publication in November, 1970 in the Journal of Speech and Hearing Disorders.

"A CINEFLUOROGRAPHIC STUDY OF THE PHARYNGEAL FLAP MECHANISM" by Judith Harrington appeared in the Cleft Palate Journal, 7, 1970. The article is based on a paper delivered at the 1st International Cleft Palate Congress, 1969.

Editorial

A certain proportion of students in this department are to be congratulated for their achievements in emulating the conditions of "the good old days" of three years ago.

It must have been a dismayed and disappointed group who approached the forced move into W.J.S.H.C. - so remote, so divorced from the cherished days of gay abandon in "good old East Hall." Or so it would seem. Otherwise, why have the memos and verbal pleas for care of the new building been ignored?

Have you looked at the physical condition of your building lately? The coffee-spattered, cigarette-burned carpeting and floor tiles? The ripped wallpaper in many offices? The pencil-pitted carrel walls? The phone numbers written on the walls by the telephones? The tape marks on the blackboards?

Don't look for many of the pencilled wall marks this week, because the janitors and some students have taken time to clean up the erasable neglect in some carrels and offices. The coffee stains, burned carpet, and the pitted and torn wall paper, however, remain.

Take a good hard look at your office or carrel walls. How much of that mess could have been avoided? What hasn't been avoided may still be amenable to improvement, and the janitors, bless them, who do more than an adequate job of keeping the appearance of the building as it should be, will be willing to provide a strong arm or two. It's advisable to indicate areas that need any rejuvenating to them, as they have appropriate cleaning preparations. DON'T TRY TO DO IT YOURSELF (that's being presumptuous!) as the walls are PAPER-COVERED PLASTER and the results of "do-it-yourself-ers" are already plainly obvious. (See 307 sometime!)

I know that graduate students need places to hang pictures, signs, notes, calendars, love-letters and maybe even a patriotic flag or two (see Chuck Flowers for free advertising space), but surely there's no excuse for

ripped wall paper resulting from the use of scotch or masking tape when we all know that the only acceptable adhesive tape is of the white cloth "nail-less picture hanger" variety.

In the Case for Keeping the Building Beautiful it's not a matter of "love it or leave it," but of how we leave it for the students who will follow that is the relevant issue. There seems to be no method simpler than for each of us to be just a little more thoughtful and careful. Maybe we're taking our facilities for granted...maybe there really are some of us who yearn for the good old days.....

Kay Monkhouse

Alumni Notes

MARTIN TONN (Ph.D., 1964), currently director of Special Education at Moorhead State College in Minnesota, has completed a series of five work-books on the five senses for the educable mentally retarded. The series, to be published by Mafex Associates, will be available in the Fall of 1970.

AARON FAVORS (Ph.D., 1969) spent the week of June 21-26 in Iowa City working with David Lilly on an article based upon his dissertation.

DEPARTMENT OF SPEECH PATHOLOGY AND AUDIOLOGY
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Newsletter

Vol. 3. No. 6, July 1970

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: C. Collison, A. Compton, L. Fairbanks, M. Kaiser, K. Messer, T. Middleton, K. Monkhouse. For additional information, please see Arthur Compton or Kay Monkhouse.

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:

MARIE EMGE will act as editor of the Departmental Newsletter beginning with the October 1970 issue.

CONFERENCE ON RESEARCH ON VOCAL PHYSIOLOGY: On July 10 and 11 the Department of Speech Pathology and Audiology acted as host for a Conference on Research on Vocal Physiology that was jointly sponsored by our department and the Department of Otolaryngology and Maxillofacial Surgery and the School of Music.

The list of persons who formally registered for the conference included 93 persons from 28 different colleges and universities, a number of hospitals and treatment centers, and a number of speech clinicians from Iowa, Illinois, Minnesota and Nebraska. Registrants included persons from as far away as the University of Connecticut, Vanderbilt University, University of Michigan and the University of Oklahoma.

The meetings were open to the public, and registration was not required. Hence, the list of registrants did not indicate the total number attending the conference as numerous students and faculty attended who did not register formally.

Guest speakers for the program were Dr. David R. Dixon of the University of Pittsburgh, Dr. James L. Flanagan of Bell Telephone Laboratories, Dr. Thomas Shipp of the San Francisco V.A. Hospital and Dr. William Vennard of the University of Southern California. The speakers' formal presentation ranged over a diversity of topics including new information from anatomical research, research in electromyography, computer modelling of the laryngeal function in phonation, and the physiological definition of vocal registers.

In addition to the formal presentations a panel discussion with audience participation explored questions and problem areas. The discussing panel included Dr. Kenneth Moll, Dr. Ward Litton and Dr. James F. Curtis, in addition to the guest speakers previously mentioned.

The response of persons attending the conference was enthusiastic. Many commented that the presentations were excellent and that the discussion was particularly helpful in providing opportunity for clarification of points that arose from the formal prepared presentations and for exploration and development of new ideas.

RICHARD BLASDELL will begin his appointment as assistant professor in the Department this September. He will be teaching and doing research in the areas of Psycholinguistics and Children's Language Development and will offer Introduction to Psycholinguistics (3:217) in the Fall.

GRADUATE STUDENT DAY for all "new" and "old" graduate students is scheduled for Tuesday, September 8. There will be a general orientation meeting beginning at 9:00 a.m. in the Auditorium followed by a coffee hour and guided tours of the building. All new students will meet with their faculty advisors in the afternoon and later in the evening, social gatherings are planned at the various faculty homes. Registration for classes begins the next day, September 9 at 1:00 p.m. and continues through September 11.

PRELIMINARY COMPREHENSIVE EXAMINATIONS for the fall will be given in room 203, Speech and Hearing Center and are scheduled as follows:

Speech Science & Phonetic Transcription: Thursday, September 10, 9:00 a.m.
Hearing Science: Thursday, September 10, 1:00 p.m.
Linguistics & Language Development: Friday, September 11, 9:00 a.m.

DAVID WILLIS will join the clinic staff this fall as clinical supervisor in the area of Aural Rehabilitation and will also assist in the Aural Rehabilitation course.

Professional Activities of Members in Department

JAMES CURTIS and D.C. SPRIESTERSBACH served as two of the eight liaisons for the 1970 ASHA meetings on professional affairs. The States assigned to James Curtis were Alabama, Florida, Georgia, Louisiana, and Mississippi and D.C. Spriestersbach visited California, Idaho, Michigan, Minnesota, Montana, Nevada, Ohio, Oregon, and Washington. The meetings were followed up by a debriefing meeting in Washington D.C. on July 23-24 to summarize the results of the States meetings.

DEAN WILLIAMS spent the week of July 6-10 as visiting professor at the University of Nevada in Reno.

Social Announcements and Personals

The Aussies have scored again - congratulations to DR. DON MONKHOUSE for earning his Ph.D. in Physical Pharmacy.

FRIDAY, July 24, the August graduating class treated faculty and students to free beer in the Ratskeller of the Red Ram. Guests were "entertained" by limericks and poems composed and read by the graduates.

Departmental Research and Publications

"EFFECTS OF ELECTRICAL CURRENT APPLIED TO COCHLEAR PARTITION ON DISCHARGES IN INDIVIDUAL AUDITORY-NERVE FIBERS. I. PROLONGED DIRECT-CURRENT POLARIZATION" by Teruzo Konishi, Donald C. Teas, and Joel S. Wernick. Journal of the Acoustical Society of America, Vol. 47, No. 6 (part 2) pp. 1519-1526, June 1970.

"EFFECTS OF ELECTRICAL CURRENT APPLIED TO COCHLEAR PARTITION ON DISCHARGES IN INDIVIDUAL AUDITORY-NERVE FIBERS. II. INTERACTION OF ELECTRICAL POLARIZATION AND ACOUSTIC STIMULATION" by Donald C. Teas, Teruzo Konishi, and Joel S. Wernick, Journal of the Acoustical Society of America, Vol. 47, No. 6 (part 2) pp. 1527-1537, June 1970.

"PERCEPTUAL EFFECTS OF FORWARD COARTICULATION" by David Kuehn (M.A. thesis, August, 1970) This study was designed to determine how well listeners could identify speech sounds or features of speech sounds by hearing portions of a phrase preceding those particular sounds. CV syllables

following a carrier phrase were presented to listeners who were required to identify the consonant and vowel. Various portions of the CV syllable were deleted in order to arrive at answers to the questions posed in this study.

Based on the results obtained, the following conclusions may be stated:

1. Given only the acoustic segment preceding the friction or nasal portion of the consonant, listeners can identify the consonants /n, m, v, θ, f/ (in that order of correct identification) above the chance level. Given only the acoustic segment preceding the friction portion, listeners perceive /s/ and /z/ at the chance level. The adjacent vowel-consonant or consonant-vowel transition appears to be unnecessary in the perception of /s/ and /z/ if the friction portion is presented. The consonant to vowel transition may be more important for the perception of /θ/ than for the perception of the other consonants studied.

2. The optimum consonant groupings, as determined by a covariance measure of intelligibility, are the following:

Nasality:	nasal /m, n/; nonnasal /f, v, θ, θ̃, s, z/.
Voicing:	voiceless /f, θ, s/; voiced /v, θ̃, z, m, n/.
Place of Production:	labial /m/; dental /f, v, θ, θ̃/; alveolar /s, z, n/.

3. The acoustic segments preceding consonants contain perceptual cues primarily related to physiological place of production. Perceptual cues related to manner of production also are evidenced in segments preceding the consonants but manner cues are not as strong as place cues. The perceptual cues related to place and manner of production of a following consonant might be accentuated preceding a voiced consonant as compared to a voiceless consonant.

4. Given the acoustic segment preceding the consonant to vowel transition, listeners show a response bias toward the high vowels. For the various cut conditions, listeners identify high vowels with a greater degree of accuracy than the low vowels, and front vowels with a greater degree of accuracy than the back vowels of comparable tongue height. This is related to the fact that the consonants used in this study require a relatively high and sometimes forward tongue configuration for their production. In general, the majority of perceptual confusions occurred between vowels that are adjacent on the traditional vowel triangle for the cut and uncut conditions.

5. The optimum vowel groupings, as determined by a covariance measure of intelligibility, are the following:

Tongue Advancement:	front /i, I, E, æ/; central /ɜ/; back /a, ʌ, U, u/.
Lip Rounding:	rounded /U, u, ɜ/; unrounded /i, I, E, æ, a, ʌ/.
Tongue Height:	high /i, I, U, u, ɜ/; low /E, æ, a, ʌ/.

For the various cut conditions, the front, central, and back vowels were least often confused with each other. The vowel grouping related to tongue height involved the largest number of confusions and thus the lowest relative information of the three categories. The relative information associated with tongue advancement and lip rounding is nearly maximum when only the consonant to vowel transition and the preceding acoustic segment are given.

"TRANSPPOSITION OF DISCRIMINATION FROM PURE-TONE TO SPEECH-SOUND STIMULI" by Donald Trubey (M.A. project, August, 1970) This research project dealt with the effects of a transposition and a non-transposition discrimination training technique. The subjects were male and female children between the ages of five and eight years. The subjects were selected on the basis of normal articulatory structures, hearing acuity, intelligence, vocal quality, and fluency. Each failed to produce the /s/ phoneme accurately in isolation or in words and failed to perform above chance level on intraphonemic pseudo-internal discrimination tests of /s/ in isolation and in words.

Four subjects received pure-tone discrimination, transposition and speech-sound discrimination training. Two subjects received only speech-sound discrimination training. Pre-treatment testing occurred approximately 48 hours prior to treatment and post-treatment testing occurred approximately 48 hours following treatment.

The data suggest the following conclusions:

- (1) the transposition subjects did not perform differently from the non-transposition subjects;
- (2) discrimination performance for /s/ in isolation improved in all subjects;
- (3) some discrimination generalization to /s/ in word contexts was noted for all subjects;
- (4) as a group, the subjects did not improve /s/ articulation in isolation or word context;
- (5) speech-sound discrimination and articulation are discrete functions and are learned separately.

Suggestions for improvement in methodology were made. Possible areas of future research using the transposition technique and areas of investigation of the relationship between discrimination and articulation acquisition were offered.

GRADUATING STUDENTS - M.A.

VIRGINIA CURRANS has accepted a position in the Scott-Muscatine County School System as a speech clinician.

SUZANNE DAYTON will be working as a speech clinician in the Dubuque Public School System.

ELLEN DUSTMAN has accepted a position as a speech clinician with the public school system in Boulder, Colorado.

MARILYN EARLEY plans to stay in her present position as speech clinician in the public school system in Louisville, Kentucky.

LESLIE FAIRBANKS' plans are indefinite at this time.

DAVID KUEHN plans to stay in Iowa City and complete a Ph.D. in the area of Speech Science.

MARCIA KAISER will be working in the Iowa City Community Schools as a speech clinician.

BEVERLY KRAMER will be working as a speech clinician in the Henry County School System.

LINDA POWELL'S plans are indefinite at this time.

CAROL PRAHL'S plans are indefinite at this time.

KAREN SCHADE has accepted a position in Tama County as a public school clinician.

NEWSLETTER

Department of Speech Pathology and Audiology
University of Iowa

Vol. III, No. 7, October 15, 1970

WELCOME - ONE AND ALL

The Department of Speech Pathology and Audiology extends a warm welcome to all undergraduates attending the open house this afternoon. The faculty appreciates this opportunity to meet informally with the students. All members of the department hope you enjoyed the afternoon here and that you will be coming back to the Center for future activities throughout the year.

The current faculty and professional staff include: Charles Anderson, Carl Betts, Richard Blasdell, James Curtis, Marie Emge, James Hardy, Herbert Jordan, Penelope Hall, Breta Lawshe, David Lilly, Barbara Moeller, Kenneth Moll, Hughlett Morris, Dorothy Sherman, Arnold Small, Duane Spriestersbach, Duane Van Demark, Dean Williams, Joel Wernick, David Willis, and William Yovetich.

CONFERENCE BEGINS TOMORROW

A one-day conference on REHABILITATION OF THE PATIENT WITH A COMMUNICATION DISORDER will begin at 9:00 a.m. on Friday, October 16 at the Wendell Johnson Speech and Hearing Center. The program, focusing upon the speech, hearing and language disorders of the adult stroke patient, is offered to professionals throughout the state who are involved in rehabilitation. Speech pathologists, physical therapists, occupational therapists, social workers, vocational counselors, and nursing personnel are expected to attend.

Miss BERTA LAWSHE, who organized the conference, will be discussing communication problems of the elderly patient with emphasis upon practical management and rehabilitative techniques. Mr. DAVID WILLIS, audiologist at the Center, will be describing the hearing problems of the elderly patient with impaired communication skills and specific suggestions for handling these problems will be presented.

The conference will be sponsored by the Department of Speech Pathology and Audiology, Department of Neurology, and the Iowa Regional Medical Program. Additional speakers will be Dr. ARTHUR L. BENTON, Professor of Neurology and Psychology, Dr. MAURICE D. SCHNELL, Assistant Professor in the Department of Orthopedic Surgery, Mrs. ELAINE SZYMONIAK, Speech and Hearing Specialist, Vocational Rehabilitation Center in Des Moines, and Dr. SHIRLEY SALMON, Assistant Professor, Speech Pathology, from the University of Kansas School of Medicine. Dr. Salmon will present ideas for home therapy programs for the non-ambulatory patient with a communication problem.

HOUSE PARENTS ANYONE?

Each summer the Wendell Johnson Speech and Hearing Clinic conducts a residential program for the benefit of approximately 50 children who have a variety of disorders, including speech, hearing, and reading. These children need more intensive therapy than they can obtain in their local community and need the growth opportunities provided by group living in a stimulating environment. The children, ranging in age from 8-16 years, live in a fraternity house rented and operated during the summer by the clinic. Therapy is scheduled at the clinic daily and tailored to meet each child's individual needs. Leisure time activities are planned and supervised by a competent house staff. The children will arrive for the 1971 Summer Residential Program on June 20, and leave on July 30. The house staff reports on June 14 for orientation.

The clinic is interested in employing a mature couple as house parents: this is a full time position and a live-in appointment. An apartment is provided, as well as board and a substantial salary. Anyone with a sincere interest in children, experience in child behavior, and ability to supervise house staff, would find this a challenging and exciting experience. If you are interested in obtaining more information about this position, or if you know of any couple who might be interested in this position, please call Mrs. Janet Whitebook at your earliest convenience (353-5463).

NEW FACULTY AND STAFF

RICHARD BLASDELL assumed the position of assistant professor in the department this September. After completing his doctoral studies, Dr. Blasdell continued as a postdoctoral fellow at the University of Florida until his appointment at Case Western Reserve University in Cleveland. Dr. Blasdell will be teaching and doing research in the area of language.

DAVID WILLIS, previously at the Department of Otolaryngology, changed his location this fall and is now a full-time clinical associate in the area of Aural Rehabilitation. Mr. Willis received his B.A. degree from Auburn University and an M.S. degree from Gallaudet College. David and his wife, Carol, have a daughter, Tonya Leigh.

Joining in on "musical chairs" is MRS. BETTE SPRIESTERSBACH, who is now a full-time resident staff member of SSCC with offices at Hospital School.

Another new staff member at Hospital School is MARY MAGERS, speech clinician for Pine School. Mary received her B.S. degree from Ball State University and her M.S. degree from Western Michigan. Mary's sister-in-law, Diana Crook Magers, is a 1966 graduate of this program.

CONNIE LYON has been appointed to provide evaluation and speech therapy services for homebound patients in the Iowa City community. She will also see patients at Mercy Hospital and selected nursing homes and extended care facilities.

NANCY EDGE is the new secretary-receptionist at the main clinic desk. Nancy's husband, Tom, is assisting in varsity football while completing his master's degree in physical education administration. Nancy and Tom came to Iowa from Pomona, California, where Nancy was employed by Xerox Data Systems.

NANCY NAUGHTEN is the new secretary in Room 125. Nancy's husband, John, is working toward his Ph.D. in zoology.

D A T E S C H A N G E B U T _ _ _ _

The following abstract of an editorial originally printed in Vol. 1, No. 7, October, 1968, was selected for republication because of the concern generated by today's graduate students over lack of student involvement in professional organizations. This is what a concerned student wrote two years ago.

ISHA: Recent involvement of college students in state and national political affairs points up a desire of many of us. We want to play an active role in deciding our future course of action. One way to participate effectively in determining our professional future consists of becoming involved in state speech and hearing associations. These organizations are open to students and are concerned with many issues about which we as students should be expressing ourselves. The Iowa Speech and Hearing Association (ISHA), for example, has a standing committee which routinely checks pending Iowa state legislation for matters of interest to our profession. . . . The fall meeting is being held. . . . Students may find it economically unwise to stay overnight in Des Moines, but should try to go for some of the meetings. Watch the student lounge for notices of rides to Des Moines for this meeting. ISHA is an opportunity for the students to find out who the working speech and hearing clinicians are in Iowa and what they are like. And, most importantly, your participation will assure the relevance of ISHA to the needs of students.

-by C. Lee Woods (Ph.D. 1968)

The fall meeting of the IOWA SPEECH AND HEARING ASSOCIATION will be held on Friday, October 30 and Saturday, October 31, 1970, at the Holiday Inn South in Des Moines, Iowa. Specific program times are not known at this time, but the program will be posted as soon as copies are available.

C O N G R A T U L A T I O N S ! C O N G R A T U L A T I O N S !

To Drs. CHARLES and JANE ANDERSON on the birth of a daughter, MARY ELISABETH, on September 29, 1970. (Word is that Dr. C. Anderson is presently working on speech sound discrimination.)

DEPARTMENTAL STUDENT COMMITTEE

This fall the faculty invited student representation on three departmental committees. On September 24, students who had expressed interest in serving on a committee met to select representatives on the Curriculum, Courses and Examination Committee, on the Conferences, Guest Lecturers and Special Programs Committee, and on the Space Assignment Committee. The recommendations regarding student representatives and the rest of the committee structure were distributed to the students and faculty. In the faculty meeting of September 29, these recommendations were approved. At the first meeting on October 5, a motion was carried to include any student representative on faculty committees within or outside of this department as a full member of the Departmental Student Committee.

DEPARTMENTAL STUDENT COMMITTEE MEMBERSHIP

Chairman.	Bob Margolis
New Graduate Student Representative	Michele Murphy
Senior Undergraduate (Two) Representatives.	to be appointed
Graduate Student Senate Representative.	Don Trubey
	(alternate) Aaron Thornton
Departmental Committee Representatives	
Curriculum, Courses and Examination - Speech Pathology	Mike Murphy
	- Audiology. Aaron Thornton
Space Assignment	Ed Conture
Conference, Guest Lecturers and Special Programs	
	- Master's Level Joanne Schwartz
	- Doctoral Level Terry Wiley
University Committee Representative	
Human Rights	Chuck Flowers

One of the popular topics for discussion was training assignments. On September 29, Doug Miller and Bob Margolis met with Dr. Moll to discuss the problems related to training assignments and whatever changes are being considered by the faculty. Any student with a complaint regarding a training assignment should see his advisor or Dr. Moll. After analyzing a questionnaire distributed last year regarding the value of training assignments, Michele Murphy, Mike Murphy and Bob Margolis will attempt to formulate a reasonable recommendation. A special meeting will be held soon to discuss this problem. All students are urged to attend.

It was recommended that student representatives on the Conferences, Guest Lecturers and Special Programs Committee discuss the feasibility of inviting S. I. Hayakawa as a guest lecturer, possibly as a joint effort with other departments.

The committee approved a monthly meeting time of 8:30 p.m. on the first Tuesday of each month. NEXT MEETING - NOVEMBER 3 - 8:30 P.M. ALL students are invited.

CONGRATULATIONS! JUDITH HARRINGTON, ED CONTURE, DON TRUBEY, and KAY MONKHOUSE passed their Ph.D. comprehensives this summer.

NEW STUDENTS IN HONORS PROGRAM

New freshman Honors students are SHANNON GAFFNEY, CYNTHIA JOHNSON, JEANNETTE KAUNG, and BARBARA TROUP. New sophomore Honors students are ANN KLOHR, MARTHA MC NEELEY, and DENNIS TANDE.

KATHY CARSON has received a scholarship award from Alpha Gamma Delta Founders Memorial Foundation. Kathy, with four semesters in residence, plus credits earned by examination, is now a senior Honors student in our department. Also participating in our departmental Honors Program for seniors are ALLEN SAUNDERS and SUSAN CARLSON.

At present only one junior in our department, BARBARA TINSLEY, is officially registered in the College of Liberal Arts as an Honors student. There are, however, several juniors who undoubtedly will qualify for participation in the departmental senior Honors Program.

PAPERBACK CIRCULATING LIBRARY

THE PAPERBACK LIBRARY is located 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.

ADULT AURAL REHABILITATION BEGINS

Adults in the Iowa City area with a hearing loss are having an opportunity to improve their communication skills every Thursday evening. A class in Adult Aural Rehabilitation was begun October 1, 1970, and will continue for ten weeks. DAVID WILLIS, who supervises the program, feels the program is filling a community need and is very pleased with the response to the evening sessions. The average attendance has been twenty each week with much interest expressed by those attending. Persons interested in attending future sessions should call Mrs. Janet Whitebook, 353-5463, for more information.

ASHA CONVENTION TRAVEL PLANS

The ASHA CONVENTION will be held in New York City beginning Friday, November 20, 1970. Special arrangements providing a group fare (\$90.60) have been completed for a flight leaving Cedar Rapids on Thursday afternoon, November 19, and returning on Monday evening. This rate represents a substantial savings since regular fare is approximately \$138.00. These special rates are available when ten or more persons are traveling together. For more details concerning this special flight please contact Mr. Lee Fisher, Joint County School System.

For particulars regarding convention housing and convention activities check the August and September publications of ASHA. Don't delay! Deadlines are: Preregistration, October 20 (ASHA members only may preregister); Hotel Reservations, October 30.

NEW FACES IN STUDENT LOUNGE

TAKAKO AYUSAWA is working toward an M.A. in speech pathology. Takako received her B.A. and M.A. from the International Christian University, Japan, in 1964 and 1969 respectively. During the school interim, Takako was employed by the Overseas Technical Cooperation Agency in Japan.

JOYCE COURTOIS is working toward an M.A. in speech pathology. Joyce received her B.S. from the University of Iowa in May, 1970.

BETTY CUTTS is working toward a Ph.D. in audiology. Betty received her B.S. from Auburn University and her M.S. from Vanderbilt University. This past year Betty was employed as an audiologist.

RANDALL KESTERSON is working toward an M.A. in audiology. Randy received his B.S. from the University of Iowa in August, 1970.

JEANNE MAHLMANN is working toward a Ph.D. in audiology. Jeanne received her B.A. from Boston University in 1969 and her M.Ed. from Pennsylvania State University in 1970. Master's thesis - "Vocal Reaction Time to Tactile Stimulation of Three Oral Structures."

DIANE BRATELLI, from Grygla, Minnesota, recently received her B.A. from St. Olaf College and is beginning graduate study with special interest in the area of speech pathology.

DOUGLAS REYNOLDS, a 1967 graduate of State University of New York at New Paltz, begins study for his M.A. in speech pathology this fall. Douglas has worked as a teacher of emotionally disturbed children at Ithaca, New York.

SHERI ROWDEN is working toward an M.A. in audiology. Sheri received her B.A. from the University of Iowa in May, 1970.

KATE CRAWFORD received her B.A. from Iowa in 1962. After working for the Easter Seal Society for a year and the public schools for two years, and most recently returning from Belfast, Northern Ireland, Kate is working on her M.A. in speech pathology.

DENNIS GRYWINSKI is a 1969 graduate of the University of Winnipeg, Canada. He begins work here this fall for his M.A. in speech pathology. KM is pleased to have the company of another member of the British Commonwealth on hand.

NANCY HAAKENSEN received her B.A. in May from St. Olaf College in Northfield, Minnesota. She is working toward an M.A. in speech pathology.

MARC KANTOR is from the University of Redlands, Redlands, California, where he received his B.A. in May. He is beginning graduate study in speech pathology with special interests in learning disabilities.

MICHELE MURPHY was graduated from St. Louis University in June. Following several weeks as an assistant clinician in a summer program she begins graduate work here with the ultimate goal of a doctorate. Michele has been a key member of Sigma Alpha Eta.

MARTHA POLK, a December 1969 graduate of the University of Tennessee, has worked as a summer camp therapist and a public school clinician. She enters Iowa this fall to work toward her M.A. in speech pathology.

FREDERICK GRUBER holds both a B.S. and a B.A. from the University of Wisconsin at Madison and an M.A. from the University of Hawaii. He spent 5 years in Hawaii and has been at the University of Minnesota since 1968. Presently he is at Iowa as a CIC Travelling Scholar to conduct thesis research in acoustic phonetics and speech synthesis toward completion of a Ph.D. in speech communication. Fred's wife, DARLENE, is enrolled as a part-time student, taking courses in this department.

BILL GREER is presently working toward a Ph.D. in speech science. He received his B.S. from Utah State University in 1969 and his M.S. from the University of New Mexico in 1970. His master's thesis was entitled "Design and Fabrication of a Linguopalatometer."

JUDY ELLIOTT comes from Los Angeles, California, with a B.A. from the University of Wisconsin and an M.A. from the University of Washington. In 1969 Judy held the position of assistant professor at Fresno State College. Look for the intelligent-looking one on crutches.

GLORIA MALAFRONTTE, a native New Yorker, received her Bachelor's Degree from Brooklyn College. This Sigma Alpha Eta key member is working toward an M.A. in speech pathology.

Winona State College sends us TERRY WOBIG, armed with a B.S. Terry is a past president of the Winona Chapter of Kapa Delta Pi, a National Education Honor Society. He is working toward an M.A. in speech pathology.

PAT PARHAM, a native Iowan, received her B.A. and M.S. from the University of Nebraska at Omaha. Pat also brings with her practical experience as a speech clinician which she obtained while working in the Humboldt-Pocahontas County Schools and the Cedar Rapids Community Schools. She is working on a Ph.D. in speech pathology and language.

BOB LOGAN is a graduate of Wayne State University where he received both a B.S. and an M.A. Bob is also an experienced traveler, having worked as a speech clinician in the Detroit, Sarasota, Florida and Oxnard, California School Systems. Bob's doctoral work will be in speech pathology.

GERALD WESA is currently working toward a Ph.D. in audiology. He received his B.A. from Wisconsin State University at Oshkosh in 1969 and most recently completed his M.A. at Northern Illinois University at Dekalb. Master's thesis - "Contralateral Masking During the Measurement of a Modified Short Increment Sensitivity Index (SISI) Test."

FUMIKO CHIBA from Tokyo, Japan, attended Tokyo Gakugei University and Sophia University Graduate School before coming to Iowa. She is working on an M.S. in Speech Pathology.

C L I N I C A L S T A F F I N G E V E R Y W E D N E S D A Y

All students, staff and faculty are reminded that a CLINICAL STAFFING is held every Wednesday afternoon from 2:30-3:30 in Room 203. Although a client seen in the Wednesday morning Out-Patient Clinic is often presented, other clients seen by the clinical staff are also scheduled. Check the schedule each week and plan to attend. Discussions are open to all, giving everyone an opportunity to ask questions, raise issues and gather clinical information.

CONGRATULATIONS to TERRY WILEY who passed Ph.D. comprehensives this fall.

C O M I N G A N D G O I N G

HUGH MORRIS was consultant for cleft palate management at the Shady Trails Speech and Hearing Camp, Northport, Michigan on July 30 and 31 and August 1, 1970. On September 24-25 he was consultant to the Joint Committee on Dentistry and Speech Pathology and Audiology in New York. Most recently, Dr. Morris traveled to north-west Iowa in conjunction with the University College Visitation Program. Other faculty members will make similar trips to four-year colleges in Iowa to discuss graduate programs offered on this campus.

BRETA LAWSHE discussed "Speech and Language Problems of the Acute Stroke Patient" with the junior class in the College of Nursing on October 2, 1970. She will soon be heading to the deep South to attend meetings of the Academy of Aphasia. Remember us all on Bourbon Street!

JAMES CURTIS just returned from the meeting of the Board of Directors of Deafness, Speech and Hearing Publications in Washington, D. C. Dr. Curtis currently is president.

KENNETH MOLL, JAMES CURTIS, DEAN WILLIAMS, and RANDY KESTERSON will attend the Big Ten Preprofessional Conference on Education and Training in Speech Pathology and Audiology at the Kellogg Center for Continuing Education at Michigan State University. The purpose is to develop guidelines for preprofessional education and training within the Big Ten institutions. Chairmen of programs, selected faculty members, representatives from the undergraduate and graduate programs, and alumni will participate. Dr. Curtis is going as an invited speaker on the program.

DEAN WILLIAMS spent the week of July 6-10, 1970, as a visiting professor in speech at the University of Nevada. In September, following participation in the ASHA Publication Board Meeting in Washington, D. C., Dr. Williams addressed the Maryland Speech and Hearing Association. His topic was "The Problem of Stuttering in the Public School and What to Do About It." In November, he will be the speaker at the Fall Wisconsin Speech and Hearing Association Meeting.

On October 2, 1970, HUGH MORRIS, BRETA LAWSHE and PENNY HALL attended the UNI Speech Pathology Conference in Cedar Falls, Iowa. The keynote speaker was Dr. AUDREY HOLLAND, who spoke on "Operant Techniques in Articulation Therapy." Guest lecturer was Dr. JAMES McLEAN whose topic was "Operant Techniques with Mentally Retarded Children."

On October 2, DON TRUBEY, president of the Graduate Student Senate, attended the "Conference on Changing Patterns in Graduate Education" in St. Louis.

JEANNE SMITH is now back at Oto after a "quiet" week at the American Academy of Ophthalmology and Otolaryngology. Meetings were held at the desert town in Nevada called LAS VEGAS.

Travelling to the University of Akron (Ohio) will be RICHARD BLASDELL, who will present a lecture "On the Distinction Between Competence and Performance" at the Conference on Symbolic Processes.

TRAVIS SPEAKS AT IOWA CELEBRATION

Dr. LEE E. TRAVIS returned to the University last week to participate in the Semicentennial Celebration (1920-1970) of the State Psychopathic Hospital and Department of Psychiatry. Dr. Travis presented "Personal Reflections on the Early History of the State Psychopathic Hospital."

Dr. Travis was the first director of the University of Iowa Speech Clinic developing the speech pathology program until he left Iowa in 1938.

CONGRATULATIONS to HERBERT and LINDA JORDON whose daughter, JENNIFER, was chosen "Child of the Month" by Kent Studios in September.

AUSTRALIAN PROFESSOR VISITS

Mrs. ELIZABETH USHER, Senior Lecturer and Head of the Department of Speech Therapy at the University of Queensland, Australia, will be visiting the Iowa campus for a two-week period beginning next Monday, October 19. Mrs. Usher has been on sabbatical leave since February, and she and her husband are visiting Speech and Hearing Centers in Canada, Britain, and the U.S. before returning to Australia later this year.

As well as observing current "overseas trends" relative to academic and clinical training, Mrs. Usher is mixing business with pleasure by visiting some of her former students, including KAY MONKHOUSE (of "accent of the month" fame).

It is hoped that Mrs. Usher's schedule will enable her to engage in some lively informal discussions with students, as well as with faculty and staff members.

CONGRATULATIONS to HUGH MORRIS who was just elected councilor from Iowa to the ASHA Legislative Council for 1971-73.

MEMO - TO: Al Silverio
FROM: Mrs. Moeller

We have to stop meeting like this, people in Oto are getting suspicious.

NEWSLETTER is circulated about the 15th of each month except January, August and September by the Department of Speech Pathology and Audiology. News articles on topics should be submitted to Marie Enge, Kay Monkhouse or Margie Watkinson or placed in the newsletter box in the lounges.

NEWSLETTER

SPECIAL ALUMNI ISSUE

Department of Speech Pathology and Audiology
University of Iowa

Vol. III, No. 8, November, 1970

With the opening of the WENDELL JOHNSON SPEECH AND HEARING CENTER three 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. In response to the 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, we have elected to meet these requests by a special alumni newsletter, which will include activities and events of the year that are of more general interest. The alumni edition of the newsletter is mailed to all alumni just prior to the American Speech and Hearing Convention each year.

ASHA CONVENTION - 1970

The IOWA OPEN HOUSE will be held on Saturday evening, November 21, in the WARWICK ROOM at the Warwick Hotel, from 6:00 - 8:00 p.m. Everyone is cordially invited.

During the three-day convention, November 20-23, at the New York Hilton Hotel, faculty members presenting papers and/or chairing sessions are JAMES HARDY, DAVID LILLY, KENNETH MOLL, HUGH MORRIS, ARNOLD SMALL and DEAN WILLIAMS.

NICHOLAS JOHNSON, son of the late WENDELL JOHNSON, will be the speaker at the Convention Luncheon on November 21, 1970. Mr. Johnson is Commissioner of the U. S. Federal Communications Commission and author of the recently published HOW TO TALK BACK TO YOUR TELEVISION SET.

ISHA ELECTIONS

CHARLES ANDERSON, associate professor, has been elected president-elect of the Iowa Speech and Hearing Association (ISHA). His term of office, as president, will be 1973-74. BETTY BENZIES is secretary for ISHA. Drs. CARL BETTS and HUGH MORRIS are ex-officio members of the ISHA executive council.

DEPARTMENTAL RESEARCH

Ph.D. Theses

"Temporal Auditory Integration in Narrow Band Noise" by MARY JANE COLLINS.

"A Cinefluorographic-Spectrographic Investigation of the Component Gestures in Lingual Articulation" by RAY KENT.

"Perception of Parental Attitudes by Stuttering and by Nonstuttering Children" by EHUD YAIRI.

"A Study of the Disfluency Behavior of Four-Year-Old Males" by ELLEN-MARIE SILVERMAN.

"Threshold of the Acoustic Reflex for Pure Tones" by RICHARD FRANZEN.

M.A. Theses and Projects

"A Phonological Analysis of Children's Misarticulations" by STANLEY HUTTON.

"A Grammatical Analysis of Restricted Utterances of Three-Year-Old Head Start Children" by KAY MONKHOUSE.

"Some Relations Between Temporary Threshold Shift and Test Frequency" by R. DAVID NELSON.

"Body Motion in Oral Communication" by ANTHONY STAIANO.

"Transposition of Discrimination from Pure-Tone to Speech-Sound Stimuli" by DONALD TRUBEY.

"Perceptual Effects of Forward Coarticulation" by DAVID KUEHN.

"The Effect of Level on Békésy Loudness Tracking" by GLORIA J. VAN LUE.

Faculty and Students

"Nasal Airflow as an Index of Prosthetic Management of Cleft Palate" by JAMES F. LUBKER and JAMES W. SCHWEIGER appeared in the Journal of Dental Research.

"Generative Studies of Children's Phonological Disorders" by ARTHUR J. COMPTON has been scheduled for publication in November, 1970, in the Journal of Speech and Hearing Disorders.

"Speech Clinician's Stereotypes of Elementary School Age Boys Who Stutter" by EHUD YAIRI and DEAN WILLIAMS has been accepted for publication in the Journal of Communication Disorders.

"A Cinefluorographic Study of the Pharyngeal Flap Mechanism" by JUDITH HARRINGTON appeared in the Cleft Palate Journal, 7, 1970. The article is based on a paper delivered at the 1st International Cleft Palate Congress, 1969.

"Stress and Word Position as Determinants of Imitation in First-Language Learners" by BLASDELL and JENSEN, JSHR, 1970, 13, 193-202.

"The Thematic Complex as a Determinant of Verbal Communication in Dialog" by RICHARD BLASDELL has been submitted to the Journal of Communication.

"Disambiguation by Intonation" by RICHARD BLASDELL (in progress).

"Dialog Analysis" by RICHARD BLASDELL (in progress).

"Onset of Grammatical Structures in Children from 15-24 Months" by RICHARD BLASDELL (in progress).

"Anticipation and Stuttering: A Pupillographic Study" by KENNETH C. GRAY and DEAN E. WILLIAMS, JSHR, December 1969, Vol. 12, No. 4.

"Speech Clinicians' Conceptions of Boys and Men Who Stutter" by C. LEE WOODS and DEAN E. WILLIAMS (in print, JSHD).

"Disfluency Variability of Stuttering and Nonstuttering Japanese Children" by SUMIKO SASANUMA, C. LEE WOODS, and DEAN E. WILLIAMS (submitted for publication).

"Effects of Interviewer Disfluency Upon Interviewee Speech Behavior" by D. J. HUBBARD, C. LEE WOODS, and DEAN E. WILLIAMS (submitted for publication).

"Social Position and Speaking Competence of Stuttering and Nonstuttering Boys" by C. LEE WOODS (submitted for publication).

"Disfluency Behavior of Educably Mentally Retarded Children" by ELIZABETH BENZIES (Ph.D. study in progress).

"An Evaluation of Judged Expectancy of Stuttering" by MICHAEL MURPHY (Ph.D. study in progress).

"Acoustic and Perceptual Parameters of Stutterer's Speaking Behavior Prior to an Instance of Disfluency" by JEFFREY KNOX (Ph.D. study in progress).

"Language Performance of Disfluent Five-Year-Old and Six-Year-Old Boys" by CAROL EMRICK (Ph.D. study in progress).

"The Acoustics of Nasalized Speech" by JAMES F. CURTIS, Cleft Palate Journal, 7, 380-396, 1970.

"Acoustic and Analogue Studies" a paper presented by JAMES F. CURTIS at the Conference on Speech and the Dentofacial Complex, New Orleans, February, 1970. (To be published in the Proceedings of the Conference. In Press.)

"Basic Needs: Mathematics and Physical Sciences" a paper presented by JAMES F. CURTIS at the Big Ten Conference on Preprofessional Education and Training in Speech Pathology and Audiology, Michigan State University, October 21, 1970. (To be published in the conference proceedings.)

"Periodicity Pitch," Chapter One by ARNOLD SMALL in Foundations of Modern Auditory Theory, Jerry V. Tobias (Ed), Volume 1, Academic Press, 1970.

"Effects of Electrical Current Applied to Cochlear Partition on Discharges in Individual Auditory-Nerve Fibers. I. Prolonged Direct-Current Polarization" by TERUZO KONISHI, DONALD C. TEAS, and JOEL S. WERNICK, J. Acoust. Soc. Am., 47, 1519-1526 (June, 1970).

"Effects of Electrical Current Applied to Cochlear Partition on Discharges in Individual Auditory-Nerve Fibers. II. Interaction of Electrical Polarization and Acoustic Stimulation" by DONALD C. TEAS, TERUZO KONISHI, and JOEL S. WERNICK, J. Acoust. Soc. Am., 47, 1527-1537 (June, 1970).

"Hearing Screening for Pre-school and School Age Children" by C. V. ANDERSON, Chapter 33, in Katz, J. (Ed), Handbook in Clinical Audiology, Baltimore: Williams and Wilkins (in preparation).

"Post-Exposure Temporary Threshold Shift and Temporary Loudness Shift" by D. F. MC PHERSON and C. V. ANDERSON, J. Acoust. Soc. Amer. (in press).

"Nasal Airflow Characteristics During Speech in Prosthetically Managed Cleft Palate Speakers" by HUGHLETT L. MORRIS, J. Speech and Hearing Research, June, 1970, Vol. 13, No. 2.

"Relationships Among Intelligence, Speech Proficiency, and Hearing Sensitivity in Children with Cleft Palate" by H. L. MORRIS and R. ESTES, Cleft Palate Journal, July, 1970.

"Usefulness of the Mean in Psychological Scaling of Cleft Palate Speech" by DOROTHY SHERMAN, Cleft Palate Journal, 7, No. 2, April, 1970.

"Lip and Jaw Coarticulation for the Phoneme /æ/" by J. D. AMERMAN, R. DANILOFF and K. L. MOLL, J. Speech and Hearing Research, March, 1970, Vol. 13, No. 1.

"Vocal Tract Characteristics of the Stop Cognates" by R. D. KENT and K. L. MOLL, J. Acoust. Soc. Amer., 46, 1549-1555 (December, 1969).

The departmental cult for Physical Health Through Wholesome Exercise suffered a momentary setback on the squash court one recent afternoon. JAMES HARDY'S teeth met with HARRY RAINBOLT'S paddle and the results may be seen upon telling a good joke to the former. Contributions for restorative and/or relaxing spirits are greatly appreciated.

Some people have all the bad breaks, and for HERBERT JORDAN it's as easy as falling off a log! For an interesting story of the "fall" and the subsequent broken leg, try 351-8155.

C O N F E R E N C E S A N D I N S T I T U T E S

On July 10 and 11 the Department of Speech Pathology and Audiology acted as host for a CONFERENCE ON RESEARCH ON VOCAL PHYSIOLOGY that was jointly sponsored by our department and the Department of Otolaryngology and Maxillofacial Surgery and the School of Music. Dr. JAMES CURTIS conducted the conference.

The list of persons who formally registered for the conference included 93 persons from 28 different colleges and universities, a number of hospitals and treatment centers, and a number of speech clinicians from Iowa, Illinois, Minnesota and Nebraska. Registrants included persons from as far away as the University of Connecticut, Vanderbilt University, University of Michigan and the University of Oklahoma.

The meetings were open to the public, and registration was not required. Hence, the list of registrants did not indicate the total number attending the conference as numerous students and faculty attended who did not register formally.

Guest speakers for the program were Dr. DAVID R. DIXON of the University of Pittsburgh, Dr. JAMES L. FLANAGAN of Bell Telephone Laboratories, Dr. THOMAS SHIPP of the San Francisco V.A. Hospital and Dr. WILLIAM VENNARD of the University of Southern California. The speakers' formal presentations ranged over a diversity of topics including new information from anatomical research, research in electromyography, computer modelling of the laryngeal function in phonation, and the physiological definition of vocal registers.

Two one-day conferences on REHABILITATION OF THE PATIENT WITH A COMMUNICATION DISORDER were held in April and October at the Wendell Johnson Speech and Hearing Center. The conferences were sponsored by the Department of Speech Pathology and Audiology, Department of Neurology, and the Iowa Regional Medical Program. The program, focusing upon the speech, hearing and language disorders of the adult stroke patient, was offered to professionals throughout the state who are involved in rehabilitation. Speech pathologists, physical therapists, occupational therapists, social workers, vocational counselors, and nursing personnel attended.

Throughout the conferences emphasis was placed upon the need to involve the family in an educational program in order that they may best assist their family member in compensating for and improving his speech and language handicap. Speakers at the first conference on April 24, were Dr. JOHN R. TAYLOR, Professor of Neurology and Administrator, Stroke Education Program of the Iowa Regional Medical Program, JAMES C. HARDY, BRETA LAWSHE, BARBARA MOELLER and Dr. SHIRLEY SALMON, Assistant Professor of Speech Pathology from the University of Kansas School of Medicine who demonstrated teaching programs for post stroke patients who initially show little ability to communicate and perform muscular function necessary for daily living activities.

In October, Miss BRETA LAWSHE, who organized the conferences, discussed communication problems of the elderly patient with emphasis upon practical management and rehabilitative techniques. Mr. DAVID WILLIS, audiologist at the Center, described the hearing problems of the elderly patient with impaired communication skills and specific suggestions for handling these problems. Additional speakers

were Dr. ARTHUR L. BENTON, Professor of Neurology and Psychology, Dr. MAURICE D. SCHNELL, Assistant Professor in the Department of Orthopedic Surgery, Mrs. ELAINE SZYMONIAK, Speech and Hearing Specialist, Vocational Rehabilitation Center in Des Moines, and Dr. SHIRLEY SALMON. Dr. Salmon presented ideas for home therapy programs for the non-ambulatory patient with a communication problem.

A special study institute on MANAGEMENT OF SCHOOL AGED STUTTERERS was held in Coralville on March 12-14, 1970. The principal speakers were Dr. HAROLD LUPER, University of Tennessee, Dr. BRUCE RYAN, Monterey Speech and Hearing Institute in California, and Dr. DEAN WILLIAMS, University of Iowa. The primary emphasis throughout the conference was upon therapeutic procedures with video-tapes illustrating specific techniques. Dr. Luper stressed the need for accurate observation and theory construction in therapy. Dr. Ryan was mainly interested in showing the importance of rewarding the desired behavior, and Dr. Williams talked about the findings of the Stuttering Research Project and how they relate to therapy with the stuttering child. A number of small group and panel discussions were also held among the speakers and the 55-60 speech clinicians who attended throughout the state of Iowa.

On November 12 and 13, a regional workshop on VOICE DISORDERS: DIAGNOSIS AND REMEDIATION was held in Coralville. Guest lecturer was Dr. FRANK WILSON, Director of the Division of Speech Pathology at the Jewish Hospital of St. Louis. The meeting was designed for public school speech clinicians in the RESA X area.

V I S I T I N G L E C T U R E S E R I E S

Speakers and lecturers during the past year included:

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

Dr. SADANAND SINGH from Howard University, Washington, D. C., presented a paper, "Methods of Determining the Perceptual Structure of Speech Sounds."

Dr. HAROLD L. LUPER, University of Tennessee, and Dr. BRUCE RYAN, Monterey Institute for Speech and Hearing presented papers in conjunction with a Special Study Institute on Stuttering which was held in Iowa City. Dr. Luper's talk was entitled "Training Mothers to Use Operant Conditioning for Children Who Stutter," and Dr. Ryan spoke on "Operant Technology Applied to Therapy Programs for School-Aged Children Who Stutter."

Dr. HARRIS WINITZ, University of Missouri at Kansas City, spoke on "Behavioral Phonetics with Special Reference to Retention."

A L U M N I N O T E S

ANN HILL (M.A., 1970) is working as the audiologist at the Iowa Clinic of Otolaryngology with C. M. Kos, M.D., and S. N. Reger, Ph.D.

MARILYN (REED) KENNEDY (B.A., 1951) is working as a speech therapist in Hartford County, Maryland.

MARTHA MARTIN (M.A., 1963) joined the Communication Disorders staff at Wisconsin State University in September, 1969. She teaches, supervises therapy, and continues to work with aphasics.

SYLVIA STEINER (Ph.D., 1964) has completed post-doctoral training at the Johns Hopkins Hospital and joined the Communication Disorders staff at Wisconsin State University. She will develop the Speech and Hearing Science Area.

EINER BOBERG (M.A., 1963) has been appointed as director of the Communication Disorders Program at Wisconsin State University.

ELAINE (JENSEN) ROVANE (B.A., 1951) is working as a volunteer with the Head Start Preschool Program in Keokuk, Iowa.

FRANKLIN (Ph.D., 1966) and ELLEN-MARIE (Ph.D., 1970) SILVERMAN are the proud parents of their first daughter, CATHERINE BETTE, born December 28, 1969.

MARVIN CHERNOFF (M.A., 1955) is associate professor at Indiana University, Northwest and is also acting as consulting psychotherapist at the Institute for Mental Health Services in Park Forest, Illinois.

MARY (GROENEWOLD) THOMPSON (B.A., 1949) is working part-time as a speech therapist in the Mankato Public School System in Minnesota.

CATHERINE (VAN RIPER) SQUIRES (B.A., 1961) has temporarily retired from the profession to care for her daughter, JENNIFER, age 3 and one-half years. She had previously worked for the Musegon and Plainwell Public School Systems in Michigan.

RICHARD FRANZEN (Ph.D., 1970) is a research audiologist at Michael Reese Hospital in Chicago, Illinois.

ELLEN-MARIE (LOEBEL) SILVERMAN (Ph.D., 1970) is a post-doctoral fellow in the Department of Speech at the University of Illinois pursuing her interests in children's language development.

MARY ANN NIX (M.A., 1970) is a speech clinician in the St. Louis Special School District.

JODIE C. RANEY (M.A., 1970) temporarily is retired while awaiting assignment of her husband who is in the armed services.

JOYCE ROSINSKI (M.A., 1970) is a speech clinician at West Branch.

GLORIA (VAN LUE) BOGGESS (M.A., 1970) is continuing in the department as a Ph.D. candidate in audiology.

ELIZABETH (MOODIE) PRATHER (M.A., 1957, Ph.D., 1960), who is teaching at the University of Washington, Seattle, has been promoted to the rank of associate professor.

JAMES STANLEY HUTTON (M.A., 1970) is a speech clinician at Chicago State Hospital, Chicago.

VIRGINIA CURRANS (M.A., 1970) is a speech clinician in the Scott-Muscantine County School System.

SUZANNE DAYTON (M.A., 1970) is a speech clinician in the Dubuque Public School System.

ELLEN DUSTMAN (M.A., 1970) is a speech clinician with the public school system in Boulder, Colorado.

MARILYN EARLEY (M.A., 1970) is a speech clinician in the public school system in Louisville, Kentucky.

LESLIE FAIRBANKS (M.A., 1970) is a school clinician in Iowa.

DAVID KUEHN (M.A., 1970) is completing a Ph.D. in the area of speech science.

MARCIA KAISER (M.A., 1970) is working in the Iowa City Community Schools as a speech clinician.

LINDA POWELL (M.A., 1970) is a speech clinician in the Hartford, Connecticut, Schools.

AILEEN BAESEMANN (M.A., 1970) is working as a speech clinician in the Scott-Muscatine County School System.

CAROLE BLANTON (M.A., 1970) is working as a half-time audiologist in the State Services for Crippled Children (SSCC).

MARTIN TONN (Ph.D., 1964), currently director of Special Education at Moorhead State College in Minnesota, has completed a series of five workbooks on the five senses for the educable mentally retarded. The series, to be published by Mafex Associates, will be available in the fall of 1970.

AARON FAVORS (Ph.D., 1969) began his new position in February, 1970, as director of the Speech and Hearing Clinic at Shaw University, Raleigh, North Carolina. He spent the week of June 21-26 in Iowa City working with David Lilly on an article based upon his dissertation.

MARY JANE COLLINS (Ph.D., 1970) has accepted a triple appointment with the V.A. Hospital, Bill Wilkerson Hearing and Speech Center and Vanderbilt School of Medicine in Nashville, Tennessee. Her duties will include audiometric evaluation and diagnosis, teaching courses in audiology and other staff responsibilities. But on Saturday nights, she'll probably be at the Grand Ole Opry.

RAY KENT (Ph.D., 1970) has been awarded an NINDS Post-Doctoral Fellowship to study at MIT.

MARY BOWSTEAD (M.A., 1970) is working as an audiologist in the Department of Otolaryngology, University Hospitals, Iowa City, Iowa.

MARY PICEK (M.A., 1970) is a speech clinician in the public school system in North Carolina, where her husband Lou is presently stationed with the Army.

SUE (STRATHMAN) SNEIDERS (M.A., 1970) is working as a speech clinician in Iowa County Public Schools (Lee Fisher's program).

SUSAN THOMSEN (M.A., 1970) is working as a public school speech clinician in Clinton Community Schools.

DIANE WILSON (M.A., 1970) is a speech clinician in the Cedar Rapids area.

KAY MONKHOUSE (M.A., 1970) is continuing in the department as a Ph.D. candidate in speech pathology.

CAROL PRAHL (M.A., 1970) is a speech clinician at St. Christopher's Hospital in Philadelphia.

KAREN SCHADE (M.A., 1970) is a public school clinician in Tama County.

CAROLYN TSCHIRNER (M.A., 1970) is a public school speech clinician in Des Moines.

BONNIE ULRICH (M.A., 1970) is working as a speech clinician in School District #109, a S.W. suburb of Chicago.

C. LEE WOODS (Ph.D., 1969) is an assistant professor in speech pathology at the University of Virginia, Charlottesville, Virginia.

MARGARET EVANS (M.A., 1968) was married in August, 1970, to JOHN JOYCE, and is working as a public school speech clinician in River Forest, Illinois.

EHUD YAIRI (Ph.D., 1970) is an assistant professor at the Texas Technological University, Lubbock, Texas.

JANIE YAIRI (M.A., 1970) is Director of Speech and Hearing Services at the State School for Mentally Retarded, Lubbock, Texas.

PENELOPE KLOCKSIEP (M.A., 1967) married JAMES HALL in June. Penny is a clinical associate in this department.

CONNIE LYON (M.A., 1966) has been appointed to provide evaluation and speech therapy services for homebound patients in the Iowa City community. She will also see patients at Mercy Hospital and selected nursing homes and extended care facilities.

Certificates of Clinical Competence in Speech Pathology were awarded to JANET GESAS (M.A., 1969), SUSAN WILDE (M.A., 1968) and GAYLE WIMPÉE (M.A., 1968).

ANNE SHAW (M.A., 1970) is teaching preschool language groups at the Atlanta Speech School, Atlanta, Georgia.

SUE WILDE (M.A., 1968) who is working at the Toledo Hearing and Speech Center recently helped the Center move into newly erected downtown facilities.

D E P A R T M E N T A L N O T E S

The VAN DEMARKS sailed to Aarhus, Denmark, on May 19, 1970, to conduct research in the area of cleft palate. This research has been made possible through the support of the University of Iowa with a research appointment for one semester, Grant DE0853, National Institute of Dental Research, and the American-Scandinavian Foundation, George C. Marshall Fellowship.

The purpose of this investigation is to compare the articulation ability and the velopharyngeal adequacy of cleft palate subjects in Denmark with those subjects currently studied in Iowa. Information will also be gained on subjects comparable to the research done by Drs. MORRIS, SCHWEIGER, and DEMJEN in Bratislava, Czechoslovakia. Two basic differences are of import in the study of these children. 1) Surgery is done by one individual POUL FOGH-ANDERSON, in Denmark. 2) Children in Denmark are eligible for residential speech therapy at age four. The majority of children in Iowa do not receive speech therapy until they have entered first grade and the effects of early speech training will be considered as a variable in the comparison of the two groups. Since the Royal Dental College is also in Aarhus as is the National Institute of Speech Pathology, it is hoped that good observations and also additional research projects will be completed during this time. The complete project will cover one year of research work and it is also hoped that during this year various observations will be made at other cleft palate centers on the continent.

Drs. CHARLES and JANE ANDERSON are parents of a daughter, MARY ELISABETH, born on September 29, 1970. (Word is that Dr. C. Anderson is presently working on speech sound discrimination.)

RICHARD BLASDELL assumed the position of assistant professor in the department this September. After completing his doctoral studies, Dr. Blasdell continued as a postdoctoral fellow at the University of Florida until his appointment at Case Western Reserve University in Cleveland. Dr. Blasdell will be teaching and doing research in the area of language.

A new service program in aural rehabilitation was initiated. Adults in the Iowa City area with a hearing loss are having an opportunity to improve their communication skills every Thursday evening. A class in Adult Aural Rehabilitation was begun October 1, 1970, and will continue for ten weeks. DAVID WILLIS, who supervises the program, feels the program is filling a community need and is very pleased with the response to the evening sessions. The average attendance has been twenty each week with much interest expressed by those attending.

DAVID WILLIS, previously at the Department of Otolaryngology, changed his location this fall and is now a full-time clinical associate in the area of Aural Rehabilitation. Mr. Willis received his B.A. degree from Auburn University and an M.S. degree from Gallaudet College. David and his wife, Carol, have a daughter, Tonya Leigh.

Mrs. ELIZABETH USHER, Senior Lecturer and Head of the Department of Speech Therapy at the University of Queensland, Australia, visited the Iowa campus for a two-week period in October. Mrs. Usher has been on sabbatical leave since February, and she and her husband visited Speech and Hearing Centers in Canada, Britain, and the U.S. before returning to Australia.

As an augmentation of the current clinical training program, a regional field-block practicum concept was tried via the Public School Practicum. It was designed to provide experience in an ongoing service program with all its administrative, multi-professional relationships and varied client population.

Six students participated during the 1970 spring semester. Two consecutive blocks were arranged of seven weeks each. The student spent four full working days of each week in the service program and the fifth on campus. The remainder of the semester was devoted to other practicums on campus. The cooperating agencies were RESA IX (Scott-Muscantine) and RESA X (Cedar, Johnson, Linn and Benton). Mrs. JANE BENDA, Mrs. KAYE SHEPHARD, Mrs. SURLINE WINDER and Miss CONNIE HEATON were the field supervisors and MARIE EMGE was liaison supervisor for the program.

Mrs. BETTE SPRIESTERSBACH is now a full time resident staff member of SSCC with offices at Hospital School.

Another new staff member at Hospital School is MARY MAGERS, speech clinician for Pine School. Mary received her B.S. degree from Ball State University and her M.S. degree from Western Michigan. Mary's sister-in-law, DIANA CROOK MAGERS, is a 1967 graduate of this program.

JAY MELROSE left Iowa City in August, 1970, to accept a position at the University of Massachusetts at Amherst.

Each summer the Wendell Johnson Speech and Hearing Clinic conducts a residential program for the benefit of approximately 50 children who have a variety of disorders, including speech, hearing, and reading. These children need more intensive therapy than they can obtain in their local community and need the growth opportunities provided by group living in a stimulating environment. The children, ranging in age from 8-16 years, live in a fraternity house rented and operated during the summer by the clinic. Therapy is scheduled at the clinic daily and tailored to meet each child's individual needs. Leisure time activities are planned and supervised by a competent house staff. The children will arrive for the 1971 Summer Residential Program on June 20, and leave on July 30. The house staff reports on June 14 for orientation.

The clinic is interested in employing a mature couple as house parents: this is a full time position and a live-in appointment. An apartment is provided, as well as board and a substantial salary. Anyone with a sincere interest in children,

experience in child behavior, and ability to supervise house staff, would find this a challenging and exciting experience. If you are interested in obtaining more information about this position, or if you know of any couple who might be interested in this position, please write Mrs. JANET WHITEBOOK, Clinical Coordinator, Speech and Hearing Clinic, University of Iowa, Iowa City, Iowa 52240.

Undergraduate students in the Honors Program are freshmen SHANNON GAFFNEY, CYNTHIA JOHNSON, JEANNETTE KAUNG, and BARBARA TROUP; sophomores ANN KLOHR, MARTHA MC NEELEY, DENNIS TANDE and CAROLYN MATHEWS; juniors MARTHA RILEY and BARBARA TINSLEY; and seniors KATHY CARSON, ALLEN SAUNDERS and SUSAN CARLSON.

Dr. LEE E. TRAVIS returned to the University in October to participate in the Semacentennial Celebration (1920-1970) of the State Psychopathic Hospital and Department of Psychiatry. Dr. Travis presented "Personal Reflections on the Early History of the State Psychopathic Hospital."

Dr. Travis was the first director of the University of Iowa Speech Clinic developing the speech pathology program until he left Iowa in 1938.

MARY BOLTON formerly at SSCC is now at the University of Kansas at Lawrence where she is teaching and doing clinical work.

MABEL RICE, formerly at the Hospital School, is now speech clinician in Brainerd, Minnesota.

ARTHUR COMPTON left Iowa City in August and is now a resident of California.

C U R R E N T E V E N T S

Departmental Student Committee

On October 20, a special meeting was held for the purpose of discussing training assignments with Dr. Moll who explained the training assignment philosophy, as well as some proposed changes under consideration. The following suggestions were made:

- 1) That students complete the analysis of the questionnaire dealing with training assignments.
- 2) That Dr. Moll collect a list of available training assignments.
- 3) That a student-faculty committee be established to review the information and formulate recommendations for improving the system. Any student interested in serving on this committee should contact Bob Margolis, chairman.

Next Meeting will be held on Tuesday, December 1, at 9:15 p.m.

The University of Iowa
Department of Speech Pathology and Audiology
Iowa City, Iowa 52240

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THIRD CLASS

NEWSLETTER

Department of Speech Pathology and Audiology
University of Iowa

Vol. III, No. 9, December, 1970

ANNUAL CHRISTMAS GATHERING

Don't forget the party this THURSDAY afternoon, DECEMBER 17 from 3:30 - 5:00 p.m. Be sure to gather around the Christmas Tree in the Center Lobby to share the Yuletide spirit with students, staff, and faculty and their families associated with the Department. See you then!!

HOLIDAY SCHEDULE

The SPEECH AND HEARING CENTER will be open during the Christmas break from 8:00 a.m. to 5:00 p.m., Monday through Friday except for December 24, 25 and January 1.

The DEPARTMENTAL LIBRARY will be maintaining the following schedule:

CLOSED - December 19 and 20
OPEN - December 21 through 23 from 1:00 to 5:00 p.m.
CLOSED - December 24 through 27
OPEN - December 28 through 31 from 1:00 to 5:00 p.m.
CLOSED - January 1 through 3

WORK HOURS : STUDENTS OKAY STATUS QUO

Recently an analysis was made of the TRAINING ASSIGNMENT QUESTIONNAIRES distributed in the Spring of 1970. In this study the majority of the students did not seem to feel that the hour requirements for training assignments should be reduced. Although reduction of average hours does not seem to be a critical factor, there is extreme variability in the actual hours devoted to assignments. In addition, the analysis revealed that first and second semester students did not evaluate many aspects of their assignments as favorably as did the "older" students. Also, there is a general need to define what the "learning experience" is for specific assignments and for this part of the academic program in general. For further information consult the analysis on reserve in the library.

NEWSLETTER is circulated about the 15th of each month except January, August and September by the Department of Speech Pathology and Audiology. News articles or topics should be submitted to Marie Emge, Kay Monkhouse, Michele Murphy, Margie Watkinson, or placed in the newsletter box in the lounges.

NEW COURSE IN PSYCHOLINGUISTICS

The new course EXPERIMENTAL PSYCHOLINGUISTICS (3:218, 3 s.h.) will be offered next spring semester on Tuesday and Thursday afternoon at 1:30 and at other times to be arranged. The purpose of the course is to provide a critical survey of experimental methodology in the study of language behavior. Topics will include current testing approaches such as the ITPA, PFVT; quantification procedures, scaling techniques (such as the semantic differential); and experimental paradigms. A research project is required. The prerequisite is consent of the instructor. For further information contact DR. RICHARD BLASDELL.

ARTICLES ACCEPTED FOR PUBLICATION

BRETA LAWSHE and JAMES HARDY have co-authored an article with DR. JAMES W. SCHWEIGER, formerly of the Department of Otolaryngology and Maxillofacial Surgery, and DR. MAURICE W. VAN ALLEN of the Department of Neurology at the University of Iowa. The article entitled "Management of a Patient with Velopharyngeal Incompetency of Undetermined Origin: A Clinical Report" has been accepted for publication by JSHD. It describes the prosthetic management of an edentulous patient with palatal paresis. The examination procedures prior to construction of the appliance are presented as well as an approach to the evaluation of the adequacy of the appliance. With this patient, use of the prosthesis resulted in reduced nasality, improved articulation and less fatigue when speaking.

JAMES CURTIS is the author of an article entitled "Acoustic and Analog Studies" which will be published in the Jan.-Feb. 1970 issue of the Proceedings of the National Conference on Speech and the Dento-facial Complex. Dr. Curtis has also been appointed to a 3-year term on the Communicative Sciences Study Section of the National Institute of Health, Public Health Services. The term will begin July 1, 1971.

GUEST SPEAKS ON AURAL REHABILITATION

HENRY SCHMITZ, from the Audiology Center of Redlands, California, visited the Speech and Hearing Center December 9 through 12. His hectic schedule included lectures to the Aural Rehabilitation Class and to other students and faculty on "Research in Auditory Rehabilitation," discussions with faculty members, and an informal luncheon with graduate students. Dr. Schmitz had an initiation to Iowa weather which was substantially tempered by a cocktail party at the ANDERSONS' on Thursday night.

CONGRATULATIONS

LARRY and JUDY (ELLIOTT) ROSS were married in Las Vegas on November 26. Larry is a psych. therapist at Psychiatric Hospital.

ALAN SAUNDERS and JEANNE THIBODEAU were married on October 24, in Faribault, Minnesota. Alan, originally from Cayuga, North Dakota, is currently a senior in speech pathology. Jeanne, from Faribault, Minnesota, is presently employed at J. C. Pennys.

A L U M N I N O T E S

MRS. LARRY (JULIE) SNYDER has reported that she is enjoying her position as a clinical audiologist at Eye and Ear Hospital in Pittsburgh, Pennsylvania. As of January 1971, she will take over the resident training program. Otology residents take a three-month course on audiology tests and interpretation of results. Julie's home town is Iowa City and she plans a visit here during the Christmas holidays.

TOM and DIANA (CROOK) MAGERS (BA 66, MA 67) have a new son, TODD ANDREW. Birthdate was in early November, with adoption on November 21. MARY MAGERS is the aunt of the wee-one.

W H E R E T H E Y ' R E G O I N G

Some of the candidates for the M.A. degree in January, 1971, have definite plans following graduation.

JUDY KOLLAR will be a public school speech clinician in Lyons, Illinois, after graduation. She is to be married on October 16, 1971, to TOM WISINSKI, a computer operator with Wilson-Jones Company in Chicago.

MARSHA SULLIVAN is heading for Omaha, Nebraska, in the spring semester where she will be a clinician and therapy supervisor at Creighton University and St. Joseph's Hospital.

DENISE SELIGMAN has accepted a position as speech clinician for Washington County School District for second semester. After this, she hopes to work in a clinic or hospital, possibly in Cleveland Ohio, or Kansas City, Missouri.

GAYLE PHILLIPS will be a speech clinician in the Cedar Rapids School System.

MARY ELLEN BECKER also has accepted a position as speech clinician in the Cedar Rapids School System. In February she will marry DAVID BRISSEY.

GINNY SIAS and JEANNE HOLUB will be moving to California in January and plan to set up house somewhere between their two jobs. Ginny will be working as a speech clinician in the Vallejo Unified Public Schools and Jeanne will be teaching a class of aphasic children at Fairfield.

CLAIRE LAUKHUF will be a speech clinician at the Audiology Center in Louisville, Kentucky, following graduation.

C O M I N G A N D G O I N G

JAMES HARDY was an active participant at the ASHA Convention in November. As well as sitting as an ex officio member of the American Boards of Examiners in Speech Pathology and Audiology in his capacity as Chairman of the Committee on Clinical Standards for ASHA, he met with the Committee on Clinical Standards, chaired a session on "Measure Techniques in Speech Research," and presented a paper, "Discrete Contractions of Torso Wall Musculatures Associated with CV Syllables."

DR. HARDY recently attended the Annual Meeting of the American Academy for Cerebral Palsy December 9 through 12, in Houston, Texas. He chaired a discussion session on "Communication Problems of Children with Cerebral Palsy" and presented a paper on "Speech Physiology Problems of Children with Cerebral Palsy."

CHARLES ANDERSON also participated in the American Academy for Cerebral Palsy meeting in Houston and presented a paper on "Audiological Consultation for Children with Cerebral Palsy."

RICHARD BLASDELL was a guest speaker at the Language Colloquium on December 10 at the Iowa Memorial Union. He spoke on "Language and Language Behavior."

HUGH MORRIS was in Iowa City for Thanksgiving following the ASHA Convention before leaving again to be a guest lecturer on cleft palate at Kansas State University on December 1-3, 1970.

On December 7, 1970, DEAN WILLIAMS was guest speaker at the meeting of the Central Iowa Speech and Hearing Association. His presentation was "Disfluency Behavior in Elementary School Stutterers and Nonstutterers."

ARNOLD SMALL acted as chairman of a paper presentation session on Psychological Acoustics at the convention of the Acoustical Society of America held in Houston during November. Dr. Small is a member of the Committee on Education in Acoustics and the Psychological and Physiological Acoustics Technical Committee, and associate editor of the Journal of the Acoustical Society of America.

C O N G R A T U L A T I O N S ! C O N G R A T U L A T I O N S !

To HERBERT and LINDA JORDAN on the birth of their first son, ANDREW LLOYD, on December 1, 1970. The future fullback weighed in at 9 pounds, 3 ounces, and is 22 inches long.

JO ELLEN HAWKINS and LEE LENKER were married on November 6.