## THE BATTALION

Wednesday, July 14, 1971

College Station, Texas

Page 3

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**TUESDAY EVENING** 

SPECIAL

## Offshoot of NASA research **Eye-controlled wheelchair aids handicapped** THERE BERET BERETE BERETER MONDAY EVENING

A motorized wheel chair di- States alone," Rusk said. rected and controlled solely by movements of the occupant's eyes was accepted recently for evaluation and testing by the Institute of Rehabilitation Medicine at New York University Medical Center. The electric motor-driven chair is controlled by a sight switch, using technology developed under direction of the National Aeronautics and Space Administration. Dr. Howard A. Rusk, director

of the rehabilitation center, estimates that more than 100,000 quadriplegics (persons with no use of their arms and legs) can achieve mobility if this device can be made available to them.

"I would say that 100,000 is a conservative estimate of the number of handicapped people who

Twenty-four students, five fac-

ulty members and a student's wife

were honored Thursday night dur-

ing the annual Honors Convoca-

tion for the College of Veterinary

The program recognizes the top

first, second and third year stu-

dents in the professional college,

Dr. Michael R. Herron, assisant

professor in the Small Animal

and faculty accomplishments.

Medicine.

ollege

Eighth in a series of proto-

type chairs built by the Missile and Space Support Division of Hayes International Corp., Huntsville, Ala., the chair was presented to NYU by George Scharffenberger, president of City Investing Co., the Haves Corporation's parent firm. Hayes developed the sight switch control under contract to NASA.

Early in NASA's manned space flight program, space engineers saw a need for a device that would permit astronauts to operate spacecraft controls when strong "G" forces would prevent movement of their arms.

ot

character and leadership.

sight switch device.

The Hayes Corporation has continued to develop commercial applications of the sight switch technology under a licensing agreement with NASA. Five other chairs are being

tested in hospitals and rehabilitation centers and two more are in regular use by individual quadriplegics in a continuing testing program. NYU Medical Center technicians noted that handicapped patients have been able to learn reasonable facility in operating the chair in as little as two or three hours use.

Members of the rehabilitation Engineers found that G forces center's staff and representatives would not be as severe a con- of the manufacturer emphasized straint as anticipated and astro- that many more months of evalucould be benefitted in the United nauts could control their space ation would be needed before the

Veterinary

commercially.

But Bob G. Weaver, the Hayes engineer who demonstrated the chair, described it as "one of the most encouraging instances to date of the direct use of NASAdeveloped technology to meet an urgent need in the private and public sector."

The Hayes sight switch-controlled wheel chair incorporates a battery-powered commercially available wheel chair with a sight switch control device using highreliability solid-state components. Presently the chair itself costs about \$700. With the sight switch device added, total cost of the chair is about \$1,500, Hayes representatives said. A considerably lower total price is anticipated

mercially.

The sight switch itself is mounted on a conventional spectacle frame worn by the chair operator. The device directs lowintensity beams to each of the patient's eyes. A photo-detector mounted adjacent to the light source senses the intensity of light normally reflected from the white of the eye.

When the eye is moved so that the darker iris intersects the beam, a sudden decrease in reflected light is sensed by the photodetector and a signal is generated to initiate an action.

The left eye switch controls the forward-reverse motion of the chair and the right eye switch controls steering. Start-stop and reverse impulses are sequential, switch.

vehicles without resorting to the device would be widely available if the chair is produced com- with one impulse imparting forward motion, the next stopping the chair and a third reversing it.

> To go from reverse motion to ahead, the operator signals once to stop and then again to go forward.

> Since the light reflecting properties of the eyelid and the eyeball are nearly the same, false actuation by blinking the eyelids is eliminated. The sight switch sensor is aimed at the upper outside eyelid area when the eye is looking straight forward.

erinarian Award.

The operator can blink, look ahead, look hard to the left or right, or look directly upward without actuating the switch. But a definite upward and outward diagonal glance will actuate the

McKinney, Dallas County VMA

Auxiliary Award; Lory Jay Ab-

sher, Student AVMA Auxiliary

Award; Larry C. Hollis, Student

L. Riggs, Marsteller Award, and

First year student Allen G.

Koonsen also received the Award

of Merit and a cash award from

Ten student members of the

**YANKEE BEEF** POT ROAST **Potato** Pancake Choice of One Vegetable Rolls - Butter Tea or Coffee

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Choice of any two vegetables

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Section of the Veterinary Medipreciation Award. The award, selected by the stucine and Surgery Department, professor of veterinary physiol- Revere bowl. - BATTALION CLASSIF WANT AD RATES CHILD CARE **OFFICIAL NOTICE** SPECIAL NOTICE Aggie wives needed for church nursery. Attendants for child care during Sunday worship services. Call 822-1324 First United Methodist Church, Bryan. \$1.50 Scholarship available to student inter-ested in chemical marketing. Apply in Francis Hall Room 256. 130t14 THE GRADUATE COLLEGE THE GRADUATE COLLEGE Final Examination for the Doctoral Degree Name: Baldwin, Thomas Richard Degree: Ph.D. in Industrial Education Dissertation: PREPARATION OF COL-LEGE TEACHERS IN SELECTED DOC-TORAL PROGRAMS. Time: July 27, 1971 at 1:15 p. m. Place: Room 8-E in the M.E. Shops Bldg. George W. Kunze Dean of the Graduate College DEADLINE 4 p.m. day before publication Hoover's Tennis Service. One block south of tennis courts. Open 1:30 to 6:30 p. m. 846-9733. 82tfn Blaine Purcell, Southwestern Vet- magazine. HUMPTY DUMPTY CHILDREN CEN-ER, 3400 South College, State Licensed. 23-8626. Virginia D. Jones, R. N. 99tfn FOR SALE Service For All Chrysler Corp. Cars FOR RENT 1968 Cutlass. Fully automatic, air-con-itioned, new shocks, new battery. Excel-nt condition. 36,500 miles. Call 846-4999 r 846-3616. 132t1 THE GRADUATE COLLEGE Final Examination for the Doctoral Degree Name: Pattillo, Leroy Baker Jr. Degree: Ph.D. in Educational Administra-tion Body Work - Painting Free Estimates One bedroom house. Nicely furnished. 8651 846-8327. 130tfn HALSELL MOTOR COMPANY, INC. issertation: HINSON - HAZELWOOD COLLEGE STUDENT LOAN ITEMS AS CORRELATES OF REPAYMENT RECORDS. Furnished mobile home. 12 x 60 1970 arkwood. Two bedroom, utility room. Nasher, dryer, entral air and heat. After p. m. call 822-2302. 131t7 MOBILE HOME PARK Four space valiable. Highway 21 East 1½ mile eyond city limits. Utilities available vater furnished, facilities for a horse Call 823-4683 after 5 p. m. All day iaturday and Sunday. 132t Dodge Sales and Service Since 1922 1411 Texas Ave. — 823-8111 57tfn F. July 19, 1971 at 1:30 p. m.
Room 402-A in the Academic Bldg.
George W. Kunze
Dean of the Graduate College HELP WANTED Birmanie cattery registered Lilac Point blue eyed Siamese kittens. Championship parents. Litter trained and vaccinated. 323-3178. 129t4 THE GRADUATE COLLEGE THE GRADUATE COLLEGE Vinal Examination for the Doctoral Degree Name: Kutner, Michael Henry Degree: Ph.D. in Statistics Dissertation: MAXIMUM LIKELIHOOD ANALYSIS OF BALANCED INCOM-PLETE BLOCK MODELS. Nime: July 15, 1971 at 3:00 p. m. Place: Room 102 in the Teague Research Center Bidg. George W. Kunze Dean of the Graduate College New 2 bedroom furnished mobile home. Central air and heat. \$150 month. Deposit required. 823-4683 after 5. 132t4 position with prestige and permanency Consider RESTEVER MEMORIAL PARK Call for appointment. 282-1782. 132t 1968 Volkswagon. '846-8995. 128t5 Registered nurse for school infirmary. live in, furnished apartment, utilities, meals, plus salary. Call 822-1290 or 846-3603. 130tfn 8 track tapes 298 magazines and pocket books ½ price. Brand new 8 track factory apes \$4.95. Aggie Den. 127tfn nary Medicine. ATTENTION STUDENTS Now completing new apartments 1 & 2 bedrooms, designed for students, A beautiful place to live. Lots of grounds for outside activities. Lake for fishing. Washateria located on grounds. You will find all of this at beautiful University Acres. An area developed for married students. A truly country atmosphere, yet located two miles from center campus. For further information, call 823-0934. After 5 call 846-3408 or 846-5509. Posters! Posters! Posters! Posters Posters! Posters! The Kind Aggies like Aggie Den. 127tfr WORK WANTED Term papers, thesis, dissertations, done with professional efficiency and speed. Contact the Baggett Employment Agency 822-0351. 13014 THE GRADUATE COLLEGE Final Examination for the Doctoral Degree Name: Kartye, Joseph Peter Degree: Ph.D. in Educational Psychology Dissertation: A BEHAVIOR SHAPING PROGRAM FOR INSTITUTIONALIZED SEVERELY AND PROFOUNDLY RE-TARDED FEMALES. Time: July 15. 1971 at 19:00 a. m. YOU CAN MOVE IN FOR AS LOW AS Experienced manuscript and dissertation typing. 846-2650. 130t4 clinics. \$295. Typing, experienced, full time, IBM Selectric symbols. Call 846-7848. 69tfn Fine: July 15, 1971 at 10:00 a. m. Place: Room 223 in the University Library George W. Kunze Dean of the Graduate College D. R. CAIN Company, 3508 E. 29th Street, Bryan. 90tfm DOWN Typing. Electric. symbols, experienced. 132tfn RENTAL 
 Deam of the Onlatine Contege

 THE GRADUATE COLLEGE

 Final Examination for the Doctoral Degree

 Name: Fowler, John Clemons

 Degree: Ph.D. in Poultry Science

 Dissertation: THE RELATION OF CAGE

 SIZE AND BODY WEIGHT TO PER 

 FORMANCE OF LAYING HENS.

 Time: July 19, 1971 at 9:00 a. m.

 Place: Room 200 in the Agriculture Bldg.

 George W. Kunze

 Dean of the Graduate College
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received the Norden Teacher dent members, is based on teach- ogy and pharmacology, was Award for outstanding teaching. ing ability, leadership, individual awarded the teaching honor. integrity and efforts made in stu-Dr. A. B. Childers, assistant A plaque and \$200 cash award dent relations. is made by Norden Laboratories professor of veterinary public Inc., with the selections judged on The Texas Veterinary Medical health, was recognized by the responsiveness of students, moral

awards to a member of the teach-Dr. Charles L. Hall, also asing faculty and a member of the research faculty. signed to the Small Animal Sec-

Chapter, American Veterinary of veterinary microbiology, re-Medical Association Faculty Apceived the research award, and Dr. James G. Anderson, assistant

Association made two \$100

Dr. Charles F. Hall, professor tion, was presented the Student

## Dr. Lawrence D. McGill, a Ph.D.

Medicine

Southwestern Veterinarian for his eases research. contributions to the official student publication of the college.

Named outstanding senior wife was Mrs. Pat Mathis, the former Lee Hobrecht of Blanco. The mother of two children, she renesota this fall. ceived a five-inch engraved

Second year students honored are David M. Miller, Borden student in veterinary pathology, was presented the John Paul Delaplane Award which recog-Award; James W. Rundell, Pfizer Award; Douglas C. Bronstad, nizes outstanding interest, ability Award of Merit, Danny L. Davis and contributions in animal dis-Award and Tarrant County Vet-A native of Nebraska and DVM erinary Medical Association Auxiliary cash award; Clayton M.

honors

graduate of Oklahoma State University, McGill will be assistant professor of veterinary pathology at the University of Min-

Third year students, those AVMA Auxiliary Award; Walter graduating in August, who received awards included Bernard James M. (Mike) Heitmann, A. McGowen ,the AVMA Auxil-Mark Francis Scholarship Award. iary Award, John H. Milliff Award for highest scholastic average in veterinary anatomy, the TVMA Auxiliary. and the Microbiology Award; Jerry P. Gumfory, Award of Merit, TVMA Auxiliary Award; Southwestern Veterinarian staff Gary C. Brantley, Bexar County were given certificates of appre-VMA Auxiliary Award, and ciation for work on the student

receive awards from Upjohn Co.

University's College of Veteri-Aug. 6.

The Upjohn Co., a pharmaceutical company, sponsored the dinner and presented the plaque and cash awards at the Ramada Inn.

Powell received the award recognizing the graduating student cal proficiency in small animal

High School in 1965 and enrolled ceive the DVM degree in August.

Ronald O. Streid of Round Rock at Texas A&M where he received the B.S. degree in January, 1970.

Powell is a distinguished student and will receive the Doctor

for graduating students at the of Veterinary Medicine degree on

ic proficiency. A 1963 graduate of Round Rock High School, he completed all pre-professional requirements at Texas A&M where he was award-

Streid's award was presented for outstanding large animal clin-

He is a member of the Gamma Sigma Delta honor society, a dis-

who displayed outstanding clini- ed the B.S. degree in 1967.

He graduated from Menard tingunished student and will re-

and Barry E. Powell of Menard



