

Training=Space Successes

By GLENN DROMGOOLE
Battalion News Editor

What makes a flight into space successful? Pages could be written on the subject, but as far as the astronaut is concerned it can be summed up in one word—training.

Before he rides a missile into adventurous outer space, the astronaut must undergo extensive training in many fields.

At A&M University's Space Fiesta currently being held in the Memorial Student Center, an exhibit by Houston's NASA Manned Spacecraft Center explains the training procedure.

BASICALLY the astronaut participates in six training phases: vehicle operations, space sciences, space flight simulation (weightlessness, acceleration, etc.), pre-launch and post-recovery ground operation, flight proficiency in jet aircraft and physical fitness.

Project Mercury established the fact that man can perform safely and effectively in space flight missions.

Weightlessness — the lack of gravity — is duplicated in the astronaut's training program to insure the future space pilot's readiness and proficiency for the Gemini and Apollo missions, the NASA exhibit stated.

JUNGLE, DESERT AND SEA SURVIVAL are included in the training period. In the event a spacecraft lands in a jungle area, the astronaut will be able to live on plants, fruits and animal life until aid reaches him.

Just in case things do not go as planned on his return to earth, the pilot takes a survival kit with him

on his trip.

On the second-floor of the MSC Scott Carpenter's kit is exhibited. Contained in the kit are a Sarah

Beacon battery, desalter kit, signal mirror, food packets, Dial soap, an astronaut knife, sunglasses, sea dye marker, tube of zinc oxide,

hacksaw blade, bacitracin ophthalmic ointment, aluminum foil, bouillon cubes, and fishing lures and cords.

SURVIVAL AT SEA or in remote jungle, desert or arctic areas is dependent not only upon intensive training, but also upon the reliability of survival equipment designed for use by the space crew.

No suggestion which might increase crew safety is overlooked during the development of life-support systems for space flight. Studies are made of many types of equipment to determine which would be best suited for the crew.

New ideas in reducing the landing loads of astronauts and spacecraft are thoroughly investigated and tested.

The development, testing and evaluation of everything needed to insure man's survival and safe effective performance in space flight is the responsibility of the Crew Systems Division of the Manned Spacecraft Center in Houston.

This group determines the requirement for life support in all phases of the space mission, provides the materials needed and conducts a medical analysis of crew performance.



Space Fiesta Exhibits

Bob Bell of Bryan, left, Garry L. Tisdale of Tyler and Mrs. Bob Long of Bastrop are among the 20,000 visitors expected to attend the show currently underway in the Memorial Student Center until Feb. 14. Speakers will include Wernher von Braun, Willy Ley and Robert Rushworth.

AMONG THE PROFS

Space Propulsion Specialist Joins Engineering Faculty

Stanley H. Lowy, former University of Oklahoma faculty member and a space propulsion specialist, has joined the A&M University Department of Aerospace Engineering as an associate professor.

Lowy, a native of New York City, has 10 years of college teaching experience and another 10 years of engineering work in industry. He formerly taught at Purdue University, Oregon State College and Portland State College, in addition to Oklahoma.

He also served as a flight engineer instructor in the U. S. Air

Force during and after World War II, following supervisory work with the Air Force in maintenance and repair of aircraft.

Lowy's research on propulsion dates back to 1947 when he was a test engineer for General Motors. He joined Boeing Aircraft in 1949 to do a literature survey on rocket fuel pumping systems, jets and diesel engines.

He helped standardize test procedures for missile test units as an employee of Hughes Aircraft Co. in 1952. In addition, he has served as a consulting and chief engineer for other firms.

title of an article by Dr. Lloyd C. Taylor of the Department of History and Government in the current issue of "New York History," publication of that state's historical association.

Mrs. Lowell was the first woman to be appointed to this political position in New York State. Gov. Samuel J. Tilden made the appointment in April, 1876, and for three decades she was associated with social welfare work. At her death in 1905, she had attained national recognition for the many significant social reforms that she had been able to bring about.

"Perhaps," sums up Taylor, "more important than her actual accomplishment was her legacy of ideas which have continued to stimulate the growth of American humanitarianism."

Taylor has been studying for the past few years the role played by American women in the humanitarian movement and what effect their work has had abroad and in this country. His research has led to the publication of some half dozen articles in national and regional journals and in the preparation of a number of biographical sketches for "Notable Women in America," now under publication by Harvard University.

Dr. Hugh J. McLellan of the A&M University faculty will join the Office of Naval Research in Washington about March 1 as a program officer and adviser in oceanography.

He will work in the geophysics branch, which is responsible for Office of Naval Research-sponsored work in oceanography. The organization is a major sponsor of oceanographic studies.

McLellan has taught, served as project director for the acquisition and conversion of the new Research Vessel Alaminos and filled other responsibilities as a professor of Oceanography at Texas A&M for almost seven years.

Pinky Announces

Visitor Figures

A total of 27,300 visitors were on the campus of A&M University during the months of June, July, August, September, October, November, December 1963 and January, 1964, P. L. Downs Jr., official greeter of the university has announced. They were attending short courses, conferences, class reunions and other scheduled meetings.

The university had 882,453 visitors on the campus for scheduled meetings and other activities during the 14-year period and eight months to February 1, 1964 from June 1, 1949, Downs pointed out. He estimated they spent \$18,531,513. There were 26 different groups on the campus in January representing 6,562 visitors.

Rodenberger Awarded NSF Graduate Aid

Charles A. Rodenberger, associate professor of aerospace engineering at A&M University, has been awarded a \$12,000 fellowship by the National Science Foundation for graduate study.

Rodenberger, a member of the A&M Aerospace faculty since 1960, will begin the year-long fellowship in June at the University of Texas. He received his master's degree in mechanical engineering from Southern Methodist University and his bachelor's degree from Oklahoma State.

The grants are provided annually by the NSF for graduate and post-doctorate study in engineering, mathematics and various sciences. Approximately 400 were awarded for the 1964-65 year to college and university teachers.

Rodenberger taught both undergraduate and graduate courses at A&M in aerospace structures and structural mechanics. During summer leaves, he has worked with industry as a senior design or aerospace engineer. In 1962 he won a \$1,000 distinguished faculty award given by the A&M Association of Former Students.

Formerly of Fort Worth, Rodenberger worked as a design engineer on the B-58 bombers with General Dynamics of Fort Worth from 1954-60.

Ag Parachutists Take Top Honors

Members of the A&M Parachute Club took two third places last weekend in the annual Houston Jaycee Sport Parachute Meet.

The Aggie Skydivers did well in the meet which hosted a field of 110 jumpers from Texas, Alabama, Florida, Louisiana, Oklahoma and the Army and Navy teams. Aggie Louis Hampton placed third in the novice accuracy event and M. T. Works, Mike Linz, and John Finks placed third in the team event.

Team members Mike Richardson stopped in Austin on the way to the meet long enough to get a first place in a meet sponsored by the club from the University of Texas.

Team members jumping were Mike Linz, M. T. Works, John Finks, Bruce Head, John Olden, Lou Hampton, Don Deveny and Carlos Salinas.

During the semester break, the A&M club was host to the Texas Parachute Council. The TPC, along with the Federal Aviation Agency, is responsible for sport jumping in Texas.

'What Next!' Says Veterinary College

The A&M College of Veterinary Medicine Small Animal Clinic has had its share of novel cases in the past several weeks.

They included a wild blue goose with a broken wing, a 200-pound brown bear, and mischief-minded monkey.

Dr. E. E. Ellett, associate professor of veterinary medicine and surgery, and a group of students promptly set the honker's lame wing with a steel pin. The wing was then taped to the bird's side to keep it still.

After the wing is healed, associate professor Richard B. Davis of the Department of Wildlife Management will band the goose. Then Burns will release it in the Houston area in time for the northward migration. Banding is used

to study migration and other bird habits.

The bear was brought in by a carnival owner to be de-clawed. It was the second case of its type in two years for the Small Animal Clinic, although a 200-pound bruin is anything but a small animal.

THE MONKEY CASE began when Dr. Ellett was called out to retrieve a South American, organ grinder-type monkey which had almost wrecked one room of a house.

Owners of the house were keeping the animal for some friends when it somehow escaped its cage when no one was around. The monkey "rearranged" everything in the room it could pick up and pulled clothes out of closets.


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