

Better Parachutes May Save Space Program Millions of Dollars

Manchester, Conn.—UPI—Better parachutes could save our space and missile program untold millions—perhaps half a billion dollars a year, Michael Kagan, president of Pioneer Aerodynamics Systems, says.

Pioneer, which has plants here and at Columbia, Miss., has roughly one-third of the nation's parachute business. It makes everything from the ordinary "ball out" chute to huge ribbon chutes, weighing half a ton, whose purpose is so advanced even Kagan hasn't been let in on the secret by the government agencies that ordered them.

A ribbon chute is made of ribbons of tough fabric, through which the air flows. It is used mainly for decelerating planes and parts of missiles.

Pioneer developed much of the parachuting system for the Mercury man-in-space project.

In the Mercury project, a complex system of exploding parachutes takes over the spacecraft after it separates from the rocket. In spacecraft tests, the 4,000-mile-an-hour speed at an altitude of 40 miles is reduced by retro-rockets to the prow of the capsule. As the capsule plunges to 21,000 feet, a stabilizing parachute pops out, and at 10,000 feet a big canopy chute blossoms to lower the capsule, gently to earth or into the sea.

"At present comparatively little recovery is accomplished, though," Kagan said. "Our military and space projects are losing several million dollars worth of valuable engines, casings and instruments each year that could be used over and over again. We and other companies are working with government scientists to design parachutes that can halt a lot of this loss."

Pioneer has another big project—a parachute that

somewhat resembles a huge revolving helicopter rotor in the air. It's called the vortex ring parachute and it works in the air much as a boat propeller works in the water when it is thrown in reverse. It is said to give 40 per cent more decelerating effect with 60 per cent less cloth area. Instead of being solid, it has four blade-like gores.

"It is the most radical change in parachutes in 50 years," Kagan said.

"Among other things, it makes possible landings of pinpoint accuracy undreamed of in the past," he said.

Final Testing

The parachute is undergoing final testing at Edwards Air Force Base in California.

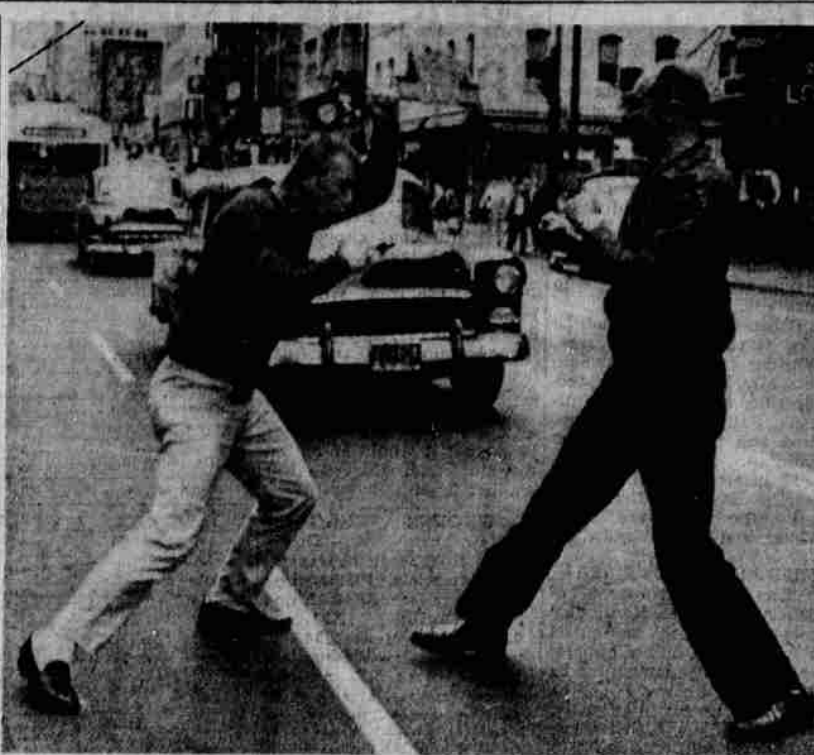
Although most of Pioneer's business is with military and space agencies, the company still makes a lot of parachutes for private and commercial fliers.

"We still are working to perfect a chute that will land a disabled small plane intact with its crew from altitudes as low as 1,000 feet," Kagan said.

Another growing market is parachute jumping clubs, much favored by college students.

"The idea," Kagan explained, "is to jump out of a plane and by manipulating the chute shrouds, to travel as far as you can before landing. Some of these lads have succeeded in landing 60 miles away from where they jumped."

Like other legitimate sports, parachute jumping has its lunatic fringe, Kagan said. "Some crazy kids out on the West Coast have been buying surplus military parachutes and experimenting with cutting out sections of them to make the jumps more 'sporty.' That's really flirting with the undertaker."



FISTS FLY—Blocking traffic in downtown Seattle as they square off in the middle of the street are two of the many pickets and their hecklers which disrupted a demonstration against the U.S. foreign policy toward Cuba. (UPI Telephoto)

Cigarette Tax for Education Urged

Washington—UPI—If a New Hampshire senator gets his way, cigarette smokers will help finance federal aid to education.

But indications are the senator's plan will be defeated.

Sen. Norris Cotton (R-N.H.) planned to ask the Senate today to help meet state school needs by refunding 25 per cent of each state's federal cigarette tax collections.

The cigarette tax amendment was scheduled to go before the Senate as it resumed debate on the \$2.5 billion school aid bill.

The Cotton amendment, offered previously in aid to

education debate, would provide about \$250 million annually to the states.

The Senate was expected to reject the proposal.

SMALL REWARD

Columbus, Ohio—UPI—Two burglars who broke into an office here early this week could have earned more with honest labor. They cut a padlock on a gate, broke an overhead window door, pried off two inner doors, carted a safe from the office into a back room and then pried it open. They got less than \$8.

Oregon Director Resigns Position

Portland—UPI—Kenneth W. Sawyer, Oregon director of the Farmers Home Administration, has resigned effective Friday.

Sawyer held the position approximately seven years.

G. C. Hendry, acting director, said no successor had been named.

The new electronic typewriter, developed by scientists at Kyoto University, converted spoken Japanese words into printed form.

Central Oregon Plans Fast Time

Bend—UPI—Central Oregon will go on "sunshine time" starting June 1.

Members of Chambers of Commerce from Bend, Prineville, Redmond and Madras met here Wednesday night and agreed to recommend to their communities that merchants and others adopt the new time schedule.

"Sunshine time" is the same as daylight saving time. But members felt adoption of the different name might avoid the stigma the term daylight saving time has in some areas.

The recommendation is expected to take general effect in the area June 1 since individual chambers and other groups such as Prineville city hall have said they would follow the decision at Wednesday night's meeting.

USSR Said Gaining Maritime Strength

Washington—UPI—Rep. Thor C. Tollefson (R-Wash.) warned Wednesday that the Soviet Union might become the world's leading maritime nation.

Tollefson, in a House speech, said the United States was in danger of losing control of the seas if the merchant marine is not kept strong.

"We are not replacing quickly enough our merchant fleet which is fast approaching obsolescence, having been built hurriedly during World War II," Tollefson said.

The Washington Republican said the Soviet Union not only had built a fleet of some 500 submarines but was engaged in a seven-year program for building a commercial fleet.

Eichmann Accuser Fails To Identify Man in Courtroom

Jerusalem—UPI—A Jewish witness testified today that Adolf Eichmann personally selected thousands of Jews for extermination.

But the witness, Viteslav Diamant, 40, failed to identify the man in the glassed-in dock of the Jerusalem court as the Nazi secret police officer whose word sent Jews to their deaths.

When Eichmann's West German defense lawyer, Dr. Robert Servatius, challenged the testimony with the assertion that Eichmann was in Hungary when he was supposed to have made the selection in the Theresienstadt ghetto, the witness said, "Well, I was just told it was Eichmann."

Evidence Received

Earlier today, the court received documentary evidence which the Israeli prosecution asserted proved that Eichmann sent at least 16 Jews to the gallows in the Theresienstadt ghetto for trying to escape or smuggle letters into and out of the camp.

Diamant testified that he was one of 24,000 Jews in the Theresienstadt camp called before a Nazi selection board in September, 1944. Each Jew had to pass before a group of SS officers, he said. Those whose names were marked with an X were sent to the death camp at Auschwitz. The others had a P marked against their names and were saved.

Among Those Saved

Diamant said he was among about 11,000 against whose names a P was put.

Pre-School Visitation Set in Jacksonville

Jacksonville—The Jacksonville school will hold a pre-school visitation Friday, May 19, from 1 to 2:30 p.m. All children who will enter the first grade next year are invited.

First grade classes will have a special program and pre-school children will be asked to participate.

Mothers will meet in the multi-purpose room with the principal and the new Parent-Teacher association president to discuss the program and to answer questions. Refreshments will be served by the PTA.

Mann's
MEDFORD

LARKS
happiest shoe feeling



for easier stance
COOL AND FIT

7.99

... while addressing the meeting, touring foreign scenes or super-market aisles. An elastic strap keeps the breezy styling snug with your foot. And comfort's assured on the foam cushioned mid-hi wedge. In bone with beige kid, all white, or a blend of summer-fresh pastels.

Park Shop

US Keds



school's almost out!
TIME FOR VACATION FUN

A. **CHAMPION** oxford boys and girls. Smart colorful, serviceable, too. Cool ventilated uppers, crepe soles, pull-proof eyelets.

3.99 to 4.99

B. **BIG LEAGUER**. For rugged action and maximum foot protection. Arch-cushion comfort, greater gripping power, too. Washable.

5.75 to 6.49

Indian Technique May Be Used In Building Homes

College Station, Tex.—UPI—The adobe building skills of the American Indian, coupled with scientific soil-additive formulas tested at Texas A&M college may soon provide technical information for

construction of low-cost housing in undeveloped areas of the world.

The goal of the research project under way in Texas is to find the right proportion of lime and cement to mix with various soils for best results in constructing buildings.

A \$28,000 grant from the International Cooperation Administration is part of an effort to allow construction of housing developments with earth blocks in nations in the Far East, Asia and Africa. A project in Korea, using some lumber and lime stabilized soil bricks, has kept building costs for small houses to less than \$500 per unit.

A report from three research associates at Texas

A&M said they had completed the first phase of the project—that of compiling pertinent available information on the use of soil for home building purposes.

More Experiments

The next steps in the study will be further laboratory and field experiments, investigation of the practical aspects of soil treatment and construction operations, and finally, the preparation of a home-building manual for use in underdeveloped countries.

Much of the data on construction of buildings in the United States and soil is based on the work of the American Indians, who built homes principally of soil more than 100 years ago that are in excellent condition today.

The arid climate of the region helped extend the life of the soil buildings, according to Texas A&M scientists.

The high rainfall in other parts of the world, however, makes it necessary to add other ingredients to the soil used in construction to keep the blocks from washing away. This "soil stabilization" research is a major part of the Texas A&M study.

One phase of the field experiments involves comparison of soil blocks stabilized with 2, 4 and 8 per cent portland cement.

"Observations after several months indicate that under moderate exposure to wetting and drying, heating and cooling, and driving rain, all the stabilized blocks performed in a satisfactory manner," the experiment station reported.

"An instruction manual to be translated into several languages is being prepared in simple language to tell the people of underdeveloped areas how to select the proper soil, how to stabilize it most economically and how to lay out and build a simple and comfortable home at a cost within their ability to pay," it added.

Water Hauling Permit Granted

Salem—UPI—A Portland trucking firm today won a license to transport water—the first time water has been a regulated commodity in Oregon.

Public Utility Commissioner Jonel Hill said the authority of Transport Service, Portland, was expanded to include permission for statewide transportation of water.

James E. Singleton, transportation director, said no one had applied for such a permit before, since water generally was hauled in the users' own trucks.

He said highway contractors have been the biggest consumers of water, often using several hundred thousand gallons a day for cement and grading operations.

CUSTOM MADE DRAPERY SALE NO ADDITIONAL LABOR CHARGE...

Wide assortment of patterns and plains. New fashion colors. Expert workmanship. VALUES UP TO 2.98 YARD.



LABOR INCLUDED

OR!

Select from our regular stock of hundreds of drapery fabrics. For this sale event, Mann's will make your draperies at regular yardage prices with NO ADDITIONAL LABOR CHARGE!

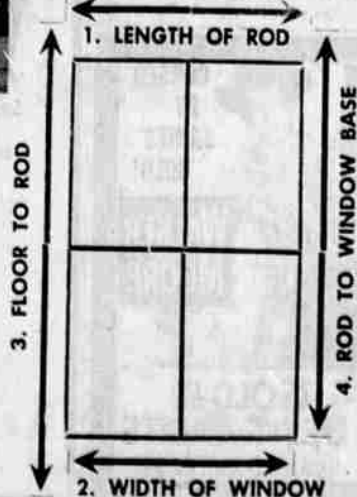
1.79 to 4.98 yd.

HERE'S ALL YOU DO:

Use this chart as a guide to take your window measurements. Bring the measurements to MANN'S.

FOUR MEASUREMENTS REQUIRED

1. Length of Rod
2. Width of Window
3. Floor to Rod
4. Rod to Base of Window



**MORE
FREE
GOLD BOND
STAMPS**

REDEEM COUPON AT BOTTOM OF THIS
AD AT THIS GOLD BOND MERCHANT

**IVERSON
PAINT**

Corner of

BARTLETT AND 4TH

Listen to

GOLD BOND DIAL-A-PHONE

KYJC-10 times daily



Look for more FREE Gold Bond Stamps on
pages 10A, 8B, 2D, 5D, 8D.