

Guidance To Planets, Stars Now Possible

Philadelphia—(Science Service)—Trips to other planets, and to the much more distant stars themselves, will not be delayed by lack of navigation systems.

The same kind of mechanisms that have been developed for missile and other guidance, when combined with computers, timing devices and automatic servodrives, could make possible now automatic navigation to Mars and between the planets.

Basic Problems Solved
Dr. Charles Stark Draper, inventor of inertial guidance and director of the Instrumentation Laboratory of Massachusetts Institute of Technology, feels that the basic problems in guiding space ships through space have been solved. He was awarded the Magellan gold medal of the American Philosophical Society here.

Men will not need to steer space ships on interplanetary flights the way automobiles are driven manually. Guiding devices will be automatic and operated by human brains and hands only when directions and objectives are changed. The inertial navigation components of gyroscopes, gimbals and servodrives, that can keep direction without external contacts, would be used to complement automatic trackers for the sun, planets and stars.

Free To Use Energy
The space explorer having his steering in space largely done for him by automatic devices, would be free to use his energy and brain on discovering space.

Dr. Draper feels the United States should be making a major effort to get interplanetary exploration under way at once rather than let it wait for years in the future. The Russians, he is convinced, have preliminaries to planetary travel underway and if we are to keep up with the space procession we should follow up promptly the significant progress we have made. We need to take the present inertia out of our planetary inertial guidance possibilities.

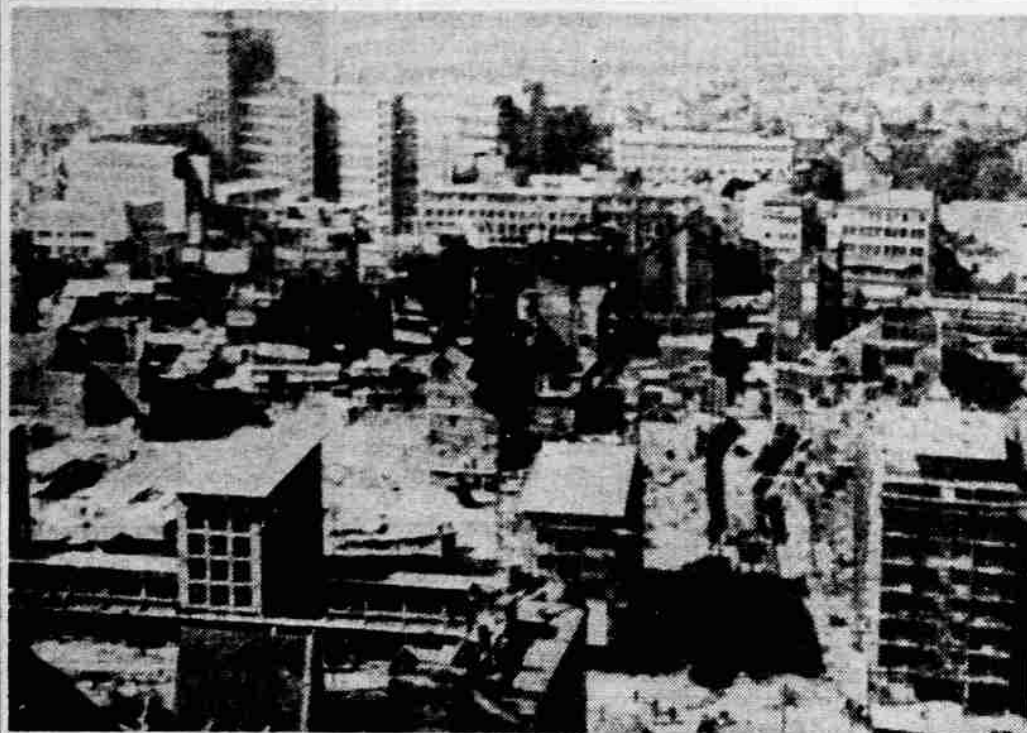
Pendleton—UPI—The Pendleton Voters League is circulating petitions here for recall of the present city council manager form of government.

MEDFORD TRIBUNE

2nd SECTION

MDFORD, OREGON, THURSDAY, NOVEMBER 19, 1959

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FRANKFURT OUTSTRIPPING RECORD—Frankfurt, pre-war capital of commerce in Germany, has made a comeback which places it foremost in the "miracle" of German recovery. When Allied troops marched into Frankfurt in 1945, the city was 60 per cent destroyed. In little more than a decade, Frankfurt is outstripping its pre-war record as a vital center of commerce and industry. This view of the city, taken from the top of the Frankfurt dome, shows reconstruction in progress. —(UPI Telephoto)

Frankfurt Placed Foremost in 'Miracle' of German Recovery

Frankfurt, Germany—UPI—This pre-war capital of commerce has made a comeback which places it foremost in the "miracle" of German recovery.

When Allied troops marched into Frankfurt in 1945 the city was 60 per cent destroyed. Half its population had fled. Streets were choked with rubble. Over 80,000 homes had been destroyed and 50,000 were damaged.

In little more than a decade, Frankfurt has not only regained its position as a vital center of commerce and industry but is outstripping its pre-war record.

The population has risen from 550,000 in 1939 to 670,000 today. Streets are congested, not with rubble but with new cars and trucks.

Market Busy
The Frankfurt stock market is the busiest in West Germany. Thirty-eight airlines operate from the nearby Rhein-Main airport. More

than 30,000 new homes are being built every year.

The contrast with 1945 is spectacular. At the end of the war, children were begging on the streets and a ration system allowed citizens only 1,100 calories per day.

Today, children play in more than 150 playgrounds and parks. Grocery counters are loaded with food. The more than 100 nightclubs in Frankfurt are usually packed.

Air raids destroyed 60 churches in the city and only 11 were left standing. Today there are more than 100 Protestant and Catholic churches. Ten bridges crossing the river Main had been destroyed but they are all rebuilt.

A "suburbia" similar to that surrounding American cities has sprung up on the outskirts of Frankfurt. Thousands of families are moving into modern country homes.

Telephones Dead
When the war ended there was no gas or electric service and telephones were dead. Today the utility systems are expanding and the demand for phones is so great that there is a one-year waiting period for a private line.

The famous Goethe house which has been a tourist attraction in Frankfurt for over a century was left only partially standing after the bombing raids of 1944. Now, the house has been restored, and its brick walls are once again hidden by a growth of ivy.

Rumors of Soviet Man in Space Has U. S. Guessing

Brooks Air Force Base, Tex. (Science Service)—Whether or not a report that the Russians have already sent a man into space are true or false, Air Force officials here are remaining calm but interested in the possibility.

Rumors to this effect have circulated about a year. A recent report claimed that Russia succeeded in bringing an astronaut back to earth last January, but the man had gone insane.

Information New
The newspaper story did not say whether the insanity was caused by psychological or physiological effects. The information is evidently very new, because Air Force officials here learned of it through the newspapers only.

This story appeared as 300 cardiologists and space medicine experts, as well as the top brass in U.S. military medicine, met at an International Symposium on Cardiology in Aviation here.

When asked to comment, Gen. Oliver K. Niess, Air Force surgeon general, said that if it is true it is a remarkable feat. He then expanded on the insanity aspect. Referring to the seven Mercury astronauts, the general said, "We do not expect this to happen to our people. They will be well prepared."

Ready To Go
The methods of selection, conditioning and training of these seven men chosen to be the first U.S. space men are such that the military expects them to return in sound physical and mental condition, he added. Commenting upon U.S. progress toward putting a man into space, Gen. Niess said that America's astronauts are ready to go for a two-to-three-day trip. The big problem right now appears to be that of reliability of the vehicle that will carry them.

Space expert Dr. Hubertus Strughold told Science Service he had heard nothing through official channels about the Russian man shot. Dr. Strughold, special adviser to the Commandant for Research here at the School of Aviation Medicine, would normally receive such information.

Others attending the symposium appeared to agree that the Russians probably would not want the matter publicized. On the other hand, the U.S. Air Force would probably not want such information publicized either, even though it concerned the Russians, as it would reflect upon America's chances of safely recovering an astronaut in good mental condition.

Two Area Students Receive OSC Grants

Corvallis—Sandra Buxton, 2478 Sunnyview ave., Medford, have been awarded partial-tuition scholarships for 1959-60 at Oregon State college.

Miss Buxton, a sophomore in the school of science, and Teeter, a sophomore in the school of business and technology, were selected to receive study grants sponsored by the state system of higher education. Each grant is worth \$168.

The state system of higher education gives a limited number of such scholarships each year to outstanding Oregon high school graduates and college students to encourage them to complete their education.

Bakersfield, Calif.—UPI—Fred Matt Stora, 68, of Portland, Ore., died Wednesday from injuries suffered in a traffic collision on U. S. 99 north of here.

Springs, Foam Rubber Cushion New Auto Tire

Washington (Science Service)—An automobile tire has been invented that is filled with nothing but springs and foam rubber.

It is claimed to be more practical and versatile than previously patented non-inflatable, spring tires, and earned for inventor Ray H. Alexander of Holdrege, Nebr., patent No. 2,912,032, one of 1,052 patents granted by the U.S. Patent Office here this week.

Alexander reports he knows of no previous tire of this type that has received commercial acceptance. This, he says, is because many resilient, non-

pneumatic tires are actually complete wheels that would have to be substituted for regular vehicle wheels. In other instances the performance, durability or appearance of these airless tires have not been satisfactory compared with conventional pneumatic tires. Also, repairs have often involved replacing a complete wheel unit.

Alexander's tire may be mounted on wheel rims, may be easily repaired and recapped, and has substantially the same appearance as current pneumatic tires. It is both durable and transmits little road shock.

The tire consists of an inner flexible rim and a continuous, flexible outer metallic rim. Numerous undulating straps springs extend between both rims. Between the springs is a foam rubber filler. An outer tread casing is vulcanized to the outer rim and to the flanges of the inner rim.

COMPLAINTS STUDIED
Madrid—UPI—Sen. Dennis Chavez (D-N.M.) arrived here Tuesday night to look into complaints about American bases. Chavez heads the Senate Defense Appropriation committee.

Warren, Pa. — One of Clarice MacCaulley's grade school pupils asked how to spell a word that he pronounced "sex".

Miss MacCaulley was surprised but complied. Later she looked at the story the boy had written and saw that it concluded:

"I like turtles and in-sex." She explained to the young author how to spell "insects," but he thought the advice was needless.

"I already know how to spell 'in,'" he told her. "I asked you how to spell 'sects.'"

Teacher Gives Wrong Lesson in Spelling

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