

Tremendous Advances Made In Ballistic Missile Race

By BEM PRICE

WASHINGTON — The day of the ballistic missile which has both intercontinental range and near pinpoint accuracy is just about here.

To reach this development stage, scientists have duplicated the principles of the universe and created temperatures 1½ times hotter than the sun.

They have developed guidance instruments which navigate without reference to any point on earth, instruments so sensitive that the weight of a lint speck from a polishing cloth will spin them off course by several degrees.

There apparently are well-founded reports that the Sperry Gyroscopic Co. of Great Neck, N.Y., has produced a device known as the accelerometer which can detect and correct — a deviation in the flight path of a missile of one hundredth of one degree.

Pinpoint Target

This means that a missile fired at the moon some 238,000 miles away would hit a target no longer than a football field.

Further, these instruments are so sturdy enough to be packed inside a missile which accelerates at nine times the force of gravity.

From the military standpoint two major problems have had to be mastered:

1. How to guide a missile from point A to point B 5,000 miles or more distant with near-pinpoint accuracy.

2. How to bring back an object ranging 600 to 1,000 miles in space without having it burned to a cinder by atmospheric friction.

To solve the first problem — at least theoretically — scientists have taken the gyroscopic, which employs the principles of the universe, and incorporated it into the navigation system known as "inertial guidance."

Direct To Destination

With this system a missile, an airplane, a ship or submarine can be directed to its destination without compass, radio or radar and without a glimpse of earth, sun or stars.

The solution to the second problem involved an almost incredible search for a material — and how to shape that material once found — which had the ability:

To withstand the shock of firing. To enter the minus-100-degree cold of space without cracking. To withstand temperatures of 15,000 degrees Fahrenheit — 1½ times hotter than the sun's surface — without burning up.

In arriving at a solution the scientists developed a highly secret ceramic and metallic dust compound and an equally secret shape.

In essence the principle of the gyroscopic is as old as the world. Indeed, the world is a gyroscopic. The world spins on its axis with

an equatorial speed of 1,000 miles per hour plus. This centrifugal force keeps its axis pointed to within one degree of the North Star.

In brief, a gyroscopic can be given enough spin to keep its axis in a fixed position. If you want to change the direction of an object you simply change the axis of the gyroscopic.

The new inertial guidance system employing the gyroscopic was first announced last April 18 by the Massachusetts Institute of Technology. It was largely the work of Dr. Charles S. Draper and Dr. Walter Whithy.

They began work in 1939 on the problem under the sponsorship of Sperry and the U.S. Navy Bureau of Ordnance.

Free Floating
The heart of the system is a completely free-floating gyroscopic sealed in a four-inch cylinder about the size of a tomato can. It spins in a fluid at 12,000 revolutions per minute supported by practically frictionless sapphire bearings.

By aligning the axis of the gyroscopic to an imaginary star, any object which moves and can be controlled can be directed to a pre-determined target.

Further, no natural phenomena such as weather, sunspots or magnetic influences will cause it to deviate from its path.

The problem of re-entry has been tackled by nearly 20 private concerns. One of the pioneers in the field is AVCO Manufacturing Corp. at Everett, Mass.

AVCO is under a 113-million-dollar contract to the Air Force to build the nose cone for the intercontinental ballistic missile Titan, now being made by the Martin Co., of Baltimore.

Shock Tube Refined
At the Massachusetts laboratories of AVCO a 55-year-old invention known as the shock tube, one of the nation's top scientists in gas dynamics.

Kantrowitz's shock tube is a large, cannonlike assembly which, when fired, produces a shock wave so fast that its travel time is measured in millionths of a second.

The tube is fired by the high compression of a combination of gases or the explosion of oxygen and hydrogen tempered by helium and nitrogen.

As the gases flow over any object placed in the chamber of the tube conditions result which approximate that of a missile nose cone traveling at 15,000 miles per hour. The resistance of the object to the flow of gases produces temperatures of 15,000 degrees or more.

AVCO has announced that it finally does have a cone which will meet the military's requirements. While no details are available it is known that the cone is blunt and rounded with a needle projecting outward to break the sound barrier.

2 Melrose Sailors Home For Leave
By NETTIE WOODRUFF
Special Christmas leave from Navy duty in San Diego and is visiting his parents, Mr. and Mrs. W. R. Thompson of Melrose.

Following his boat training he will be stationed for six months in San Diego.

Miss Gaye Thompson, who is employed in Salem, is also spending the holiday at the family home.

Richard Lindstrom arrived Saturday to spend Christmas with his parents, Mr. and Mrs. Ivar Lindstrom, and his sister, Charlotte. He is stationed with the Navy at San Diego also. Also spending the holiday at the Lindstrom home were Mr. and Mrs. Jack Lindstrom and baby of Corvallis, and Dr. and Mrs. Ray Smith and three children of Washouak, Wash.

Visitors this week at the Clarence Coffel home were Mr. and Mrs. William Currie and son, Bob, of Bridger, Mont., who went on to Salem to visit a daughter on Christmas. Mrs. Coffel and Mrs. Currie are sisters.

Mr. and Mrs. Virgil Six and Miss Carol Manning of Salem spent Christmas day at the home of their parents, Mr. and Mrs. M. Manning.

Mr. and Mrs. Michael Wootton and Adele spent the weekend with relatives in Milwaukie, Ore.

Mr. and Mrs. R. E. Connors and Bob and Toni left Monday for Seattle to spend the week with Mrs. Manning's parents.

Eddie Blanchard of Klamath Falls arrived last week to join his wife and daughter and spend Christmas with the J. E. Connors. Mrs. Blanchard has been here for the past week.

Mr. and Mrs. Dick Withycombe and Miss JoAnn Busenbark of Corvallis are spending the week with their parents, Mr. and Mrs. Dale Busenbark.

Miss Diane Stoffel, a student at Mt. Angel Academy, is spending the holidays with her parents, the Herman Stoffels.

Hurricane-Force Winds Spread Oregon Damage
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1.05 inches, Brookings 1.01 and Newport 1.05 in the 24-hour period ending early Thursday.

Eugene Area Struck
In the Eugene area, many outlying regions were without electricity through the night as high winds snapped off branches that broke power transmission lines.

Heavy snow was reported in the Cascades and new snow around Mapleton on Highway 36.

The Highway Commission said chains were required for travel through several Oregon mountain passes.

Snow was generally heavy in most mountain areas, and it still was snowing Thursday morning.

Chains are required at these points, the figures showing the snowfall in the 24 hours ended at 5 a. m. Thursday:

Government Camp, 3 inches; Warm Springs Junction, 2; Santiam Pass, 3; Willamette Pass, 16; and Chemult 3.

Chains should be carried at Detroit 4, Green Springs Summit 2, Bend 1, Sisters 4, Ochoco Summit 3, Lapine 3, Rly 2, Austin 2, and Basque 2.

Siskiyou Ice
Siskiyou Summit on the Pacific Highway was icy. Meacham on the Old Oregon Trail reported sanded packed snow.

Wilson River Summit also was icy.

One-way traffic was reported on the Coast Highway 3 miles north of Rockaway because of high water.

A slide on the North Santiam Highway a half mile above Big Cliff Dam forced one-way traffic restrictions, but it was to be cleared later in the day.

Washington State Dead In Yule Traffic Eleven
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father, Donald W. Kelton, collided with two other vehicles north of the Seattle city center.

Killed at Houghton, east of Seattle, last Tuesday, was Joseph B. Bradshaw, 21, Kirkland, whose auto crashed into a tree.

Harvey Pullar, 19, Seattle, died Christmas morning of injuries suffered in a five-car smashup on the Pacific Highway in Southwest Washington Tuesday night.

The State Patrol said Pullar apparently started to turn off the highway, changed his mind because of heavy oncoming traffic and turned back into his original lane, causing the five-car crash. Two other persons were injured.

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We wish to thank the people for their patronage over the years. It is with regret that we are putting our building and business up for sale. We will miss the wonderful associations made with our customers.

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Mrs. H. B. Church Resident 50 Years, Succumbs Tuesday

Mrs. Howard B. (Cora Walker) Church, 82, who had lived in Roseburg for 50 years, died Tuesday at her home at 1738 NE Commercial Ave.

She was born at Tiverton, Ohio, Jan. 23, 1875, and was married there Dec. 24, 1901, to Howard B. Church, who died in April 1948. They came to Oregon from Indiana in 1904, residing in Medford for three years before moving to Roseburg.

Mrs. Church was a member of the First Christian Church of Roseburg and had been active in church work for many years.

Surviving are five children, Clarence Church of Corvallis, Mrs. J. F. (Neva) Nelson, Opportunity, Wash., Floyd Church of Eugene, Ralph Church of Winchester, and Mrs. Everett (Tress) Wimer, Roseburg.

Also surviving are three brothers, the Rev. W. R. Walker, of Columbus, Ohio, the Rev. Lake L. Walker and Ralph Walker, both of Akron, Ohio; 12 grandchildren and 8 great-grandchildren.

Funeral services will be in the chapel of Long & Orr Mortuary Saturday at 11 a. m. Burial will be in the cemetery of the First Christian Church officiating. Following services, the body will be taken to Eugene for cremation rites.

The family asked that, in lieu of flowers, money for the First Christian Church be left at the church or the mortuary.

Mrs. Daisy Hurley Dies In Hospital
Mrs. Hurdman (Daisy Elizabeth) Hurley, 71, a well-known Roseburg resident, died in a local hospital Wednesday.

She was born in Milan, Ill., Oct. 19, 1886, and was married to Hurdman Hurley at Rock Island, Ill., Jan. 29, 1907. She later moved to Alberta, Canada, where she resided for 21 years before coming to Roseburg in 1937. Mr. and Mrs. Hurley celebrated their golden wedding anniversary Jan. 30, 1957.

Surviving, beside the husband, are a son, Don, Roseburg; two daughters, Mrs. John (Vesta) Measner, Portland, and Mrs. Bernard (Ruth) Springfield, Santa Cruz, Calif.; a sister, Mrs. Henry W. Nelson, Libby, Mont.; a brother, William Schuck, Memphis, Mo.; and four grandchildren.

Funeral services will be held in the chapel of Long and Orr Mortuary Saturday at 1 p. m., with the Rev. Dr. Eugene Gerlitz of the First Baptist Church officiating. Concluding services and vault interment will follow in Roseburg Memorial Gardens.

Russia Presses Own Proposals For 'Peace'
(Continued from Page 1)

Five realistic proposals to back up these words of "peace."

Attack On U.S. Continues
Pravda dismissed the NATO proposal for a foreign ministers conference as an attempt to ram through a disarmament agreement on the Western side.

These terms are unacceptable to the Soviet Union "because they are in no way conducive to disarmament."

Meanwhile, the Soviet press continued a general attack on plans to establish rocket and missile bases in the NATO countries.

After the NATO conference agreed to a foreign ministers conference, Soviet Foreign Minister Andrei A. Gromyko made a speech to the Supreme Soviet which seemed to reject the idea.

But the foreign minister proposed a special session of the United Nations or an international conference on disarmament. This could pave the way for a summit meeting.

U.S. Wants 'Sincerity Proof'
Secretary of State Dulles all but spurned the proposal in a report to the American public last Monday with President Eisenhower. The President called on Soviet leaders for "clear evidence of Communist integrity and sincerity in negotiations and in action" to ease world tension.

The peace plan contained these points:

1. The Soviet Union, the United States and Britain should halt the manufacture of atomic and hydrogen weapons.

2. These governments should agree to halt nuclear tests beginning Jan. 1.

3. These governments should agree not to station atomic or hydrogen arms in East or West Germany and should accept the Polish, Czech and East German proposal for a nuclear arms-free zone in Central Europe.

4. There should be a nonaggression pact between Warsaw Pact and NATO nations. The Warsaw Pact nations are Russia and her Eastern European satellites.

5. There should be agreements renouncing measures against the independence of Middle Eastern countries and the use of force in the Middle East.

7. There should be an end to war propaganda and the beginning of greater trade and cultural exchange.

Western nations have repeatedly rejected Soviet proposals for such nuclear arms testing and manufacturing because they feel Russia offers no guarantees she would live up to an agreement.

Open House Set Tonight By Camas Valley Grange
An open house night has been scheduled tonight at 8 at the Camas Valley Grange hall by members of the grange.

An invitation has been extended to all residents of the area for the designated "fun night." Various games, including cards, will be played, according to correspondence Mrs. William L. Banks.

Women have been asked to bring refreshments.

New Residents Now At Melrose

By NETTIE WOODRUFF
Melrose has new residents. They are Mr. and Mrs. Thurman Campbell and children. They have moved to the Sinto farm from Roseburg.

Figs To Klamath
Miss Maxine (Sandy) Radecke flew to Klamath Falls last week to visit relatives over the holidays.

Mr. and Mrs. Bill Warner of Eugene spent Christmas here with his parents, the Taft Warners, and daughter, Judy, and then left for California to attend the Rose Bowl game.

Mrs. Carl Woodward arrived Tuesday to spend Christmas with her parents, Mr. and Mrs. Clyde Kenyon, and to join her husband who has been discharged from the Navy and had come here to visit his father for a few days. Mrs. Woodward is employed in San Francisco.

Visit Busenbarks
Holiday guests at the D. N. Busenbark home include Mr. and Mrs. A. D. Busenbark and sons, Bob and John; Mr. and Mrs. David Busenbark, all of Washington; Miss Helen Busenbark of Newport, Wash.; Mr. and Mrs. F. D. Holister and children of Eugene; and Mr. and Mrs. David Sams and baby son, also of Eugene.

Mrs. A. R. Wheeler and daughter, Faye, of Eugene, are holiday visitors at the home of the former's parents, Mr. and Mrs. R. A. Busenbark.

Mr. and Mrs. Ted Tjomsland and family of Eugene spent the weekend at the Robert Tjomsland home.

Mr. and Mrs. George D-wey of Coos Bay came Monday to spend several days with her mother, Mrs. Mina Becker, and her brother, Carl Becker.

Canada Opposes Oil Import Tax
OTTAWA, Ont. — Finance Minister Donald Fleming said Tuesday the Canadian government cannot accept the view "that there is any justification for limitations on oil coming from Canada, either on economic or defense grounds."

He made the statement following a Washington announcement that the U.S. government has extended its program of voluntary curbs on oil imports to five West-Asian nations which previously had been exempt.

The finance minister said in a statement the Canadian government has made the "strongest possible representations" to the U.S. administration and has "urgently pressed them to reconsider and revise their proposals."

He said the effect of the U.S. curb was likely to be adverse on oil imports from Canada.

Sunshine Mining Co. Says Oil Well Producing
SPOKANE — The Sunshine Mining Co. said Tuesday its discovery well near Ocean City in western Washington has been steadily producing since Dec. 3 when arrangements were completed for sale of the oil.

President Robert M. Hardy Jr., in an interim report to stockholders, said the well was "shut in" late in October because of a lack of market for the crude oil.

Operations are underway for completion of No. 2 well in a zone from 3,018 to 3,036 feet deep that flowed oil on a drillstem test, he said.

Efforts to complete the well in an oil-bearing formation at 4,162 to 4,187 feet were suspended because of mechanical failure of the casing opposite the zone, he said.

Ex-Teamster Heads Joining Other Unions
ST. LOUIS — Harold J. Gibbons, an international vice president of the Teamsters Union, says some Teamster officials are retaining important positions with the AFL-CIO by taking out memberships in other unions.

The Teamsters union has been expelled from the AFL-CIO. Gibbons said William A. Lee, Teamsters international vice president from Chicago and president of the Chicago Federation of Labor, kept his AFL-CIO position by taking out membership in the Building Service Workers Union.

Penalty For Slayer Up To Jury's Decision
LOS ANGELES — The Superior Court jury that convicted L. E. Ewing Scott of murdering his missing wife today hears arguments on whether he should die in the gas chamber or be sentenced to life in prison.

Scott, 61, was found guilty last Saturday of first-degree murder after an 11-week trial. The body of his wealthy wife Evelyn, 63, was never found. She disappeared in 1955.

Under a new California law, the jury of seven men and five women will decide the penalty for Scott.

A. V. Myers Appointed Game Land Administrator
PORTLAND — The state Game Commission Tuesday announced appointment of A. V. Myers to the new post of lands administrator.

He will be responsible for all land transactions in which the commission engages, including the acquisition of public shooting grounds, hatchery sites, management areas and fishing access sites. In addition he will be in charge of maintenance of buildings and other facilities on commission property.

Infant Kendall Son Dies At Local Hospital
The infant son of Mr. and Mrs. Clifford L. Kendall, 1038 NE Walnut St., died this morning at a local hospital. The body was removed to Long and Orr Mortuary. Funeral arrangements will be announced later.



HE'S INSURED—Sputnik-conscious J. Richard Feeley peers skyward from a second-story window of his Amesbury, Mass., home to see if he can catch a glimpse of either of Russia's space travelers. Feeley, an insurance broker, is the first American to insure his property against damage by a falling Sputnik, and he hopes to be the first salesman in this country to sell such insurance. Lloyd's of London insured Feeley's home and two other dwellings on the single lot for \$10.50 for a 12-month period. His property adjoins the homestead of Quaker poet John Greenleaf Whittier.

Cast Removal Set For Melrose Man
By NETTIE WOODRUFF
Jim Stoffel of Melrose, who suffered a broken back some time ago in an auto accident, expects to have the cast removed this week. Back From San Jose.

Paul Demmer is back home following a week's visit with relatives in San Jose, Calif.

Mr. and Mrs. Larry Cox and baby daughter of Klamath Falls spent some time during the holidays with her parents, Mr. and Mrs. Norman Tottan. Mrs. Tottan is working temporarily at Miller's in Roseburg.

Mr. and Mrs. Robert Frasier and baby of Chemult were called here last week by the fatal illness of her father, Fred Becker, and are spending some time with her mother and sister.

Mr. and Mrs. Myron Phillips of Corvallis are spending the holidays with her parents, Mr. and Mrs. T. H. Pargeter. Phillips is a sophomore at Oregon State College.

Mr. and Mrs. J. E. Young spent Christmas with their son, Jim, and family at Sacramento and prior to that were visiting relatives in Pasadena. They plan to be in California for several weeks.

Working In Roseburg
Bill Williamson is working during the holiday at Westfield's in Roseburg. He is an OSC student and with his wife, is currently staying with his parents, Mr. and Mrs. George Williamson.

Roland Cheek and A. O. Tandy and two children traveled to Corvallis on a recent Saturday to spend a couple of days visiting at the Ed Tandy home. The men went goose hunting.

Mr. and Mrs. Ralph Cole and four children have moved into the Cheek rental on Doerner Road.

South Pole New Goal Of Mt. Everest Scale
AUCKLAND, N. Z. — Sir Edmund Hillary was reported racing toward the South Pole today. If he reaches the bottom of the world, he will be the first explorer to make it overland since 1912.

Hillary radioed today that he is "hell bent for the South Pole—God willing and reverses permitting." The conqueror of Mt. Everest and his small party have about 35 miles to go.

SAILOR GRADUATES
Kermit J. Johnson, boilerman fireman, son of Mr. and Mrs. Kenneth Johnson, Glendale, has completed boilerman's school at the Naval Training Center, Great Lakes, Ill.

Use Of Cigarettes Again Rise Despite Theory Of Cancer

NEW YORK — Americans reportedly smoked more cigarettes in 1957 than ever before.

They smoked fewer regular cigarettes in the past year than in the previous year, but enormously increased their consumption of filter-tip cigarettes, a survey by Business Week magazine showed Wednesday.

The report said a record 410 billion cigarettes were consumed in the country during the year. This was 19 billion more than went up in smoke in 1956.

The gain was made despite publication in the past year of new reports by some medical study groups that there is a statistical connection between smoking and lung cancer. Other authorities have asserted that there is no provable cause-and-effect relationship between the two.

Downward Slide Reversed
The tobacco industry five years ago was staggered by medical reports linking lung cancer and smoking, and sales went into a two-year slide. But this year's reports did not halt the renewed upward trend.

Before the initial medical reports, consumption had reached a high of 394 billion in 1952. It dropped to 368 billion in 1954, but has been climbing upwards ever since, the report said.

The survey was conducted for Business Week by Walter E. Knight, research and development manager of the Greater Boston Chamber of Commerce.

Knight's report also pointed out that the United States exported 30 billion cigarettes to overseas military bases and foreign buyers, bringing the total production figure to 440 billion units.

Car Rolls At Yoncalla California Pair Hurt
A California man and woman driving north on Highway 99 near Yoncalla Christmas Eve, apparently lost control of their car, which left the road and rolled several times.

Mr. and Mrs. Robert Field of Corning, Calif., suffered only minor injuries, but their 1957 model auto is estimated to be a total loss.

Field, 37, said he had just passed a truck on a straight stretch of road when his car seemed to go out of control. The car, he said, slid to the shoulder and flipped into the ditch, rolled over and landed upright.

Field attributed the accident to slick conditions of the highway which was still wet from a previous rain.

The couple were rushed to the Douglas Community Hospital. Field was only shaken up, but his wife, 40, received a back injury.

The accident occurred about 3 p. m.

CAR DIVE KILLS 4
DUNKIRK, France — An automobile carrying seven French youths home from a Christmas ball plunged into a canal during a thick fog last night. The driver and two passengers escaped from the submerged car. The other four drowned.

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