

Expert On Navigation Designs New Instrument To Aid Early Spacemen

ANNAPOLIS, Md. (AP)—When an early rocket pilot tries to decide where he is in space, he may get his answer from a transparent plastic hemisphere about the size of half a basketball.

Peering through it at the earth he will see our planet against a backdrop of navigational stars. Two simple maneuvers of the plastic bowl and he can read off his position—say, 15,000 miles above some point in the western Pacific Ocean.

No electronics involved. No long hair mathematical computations. Just a quick visual observation and an easy mental calculation.

That's the amazing claim for a new invention by Capt. P. V. H. Weems, 70, a retired Navy captain whose name has become synonymous with speed and simplicity in the field of celestial navigation.

Capt. Weems has designed the method specifically for manned satellites orbiting the earth and for flights to and from the moon. He has applied for a patent and says the National Aeronautics and Space Administration has expressed interest.

Weems calls the new navigation

method "space piloting" since it utilizes the center of the earth for position finding in much the same way a lighthouse is used in coastal navigation. Combined with known positions of the stars, it provides a three-dimensional fix in space.

The major tool involved is a clear plastic hemisphere with a field of navigational stars engraved in positions corresponding to their actual locations in the heavens. It also is marked with concentric circles placed to show distances in nautical miles from the earth.

The first operation is to find latitude and longitude. Looking at the earth and its backdrop of stars, the space navigator picks out two navigational stars and then orients his globe until he matches the same stars on his globe with their selected counterparts in space.

He can read his latitude—north or south—directly from a grid and can quickly compute his longitude—east or west position—by picking off a navigational component known as sidereal hour angle and adding to it the Greenwich hour angle of Aries. This latter value is pre-computed for given times in the Air Almanac, which Weems designed in the 1940s to speed up celestial navigation from airplanes.

These two dimensions will tell him what point on earth he was above when he made the observation.

To get the third dimension necessary for a navigational fix in space, the navigator quickly aims the plastic half-globe at the center of the earth and notes which of the concentric circles fall on the outline of the earth. The farther he is from earth, the smaller it will appear.

Capt. Weems and his associates in the Weems system of navigation here have developed the device over the past six months.

"We know the position of the stars for any given time, and because of their vast distances from us these positions are not going to change in space," he says. "We also know the diameter of the earth. With this information we can proceed to direct observations from the space vehicle to determine a three-dimensional position."

Capt. Weems concedes there may be some loss of accuracy inherent in visual observations but says the vastness of space shrinks the importance of the error.

"For the purpose intended, speed and simplicity are more important than pinpoint accuracy," he says.

He considers the light weight of the device—two or three pounds—to be of vital importance since an estimated 1,000 pounds of thrust is required to lift one pound through the earth's atmosphere.

Weems says the earth is a practical reference point for space navigation because all of our early operations will begin and terminate here. And any space object other than the moon is probably too far off in distance to be reached until technical knowledge advances much farther.

"Let's not kid ourselves," he says. "The moon is only a hop, skip and jump away in terms of miles."

Probation Given Woman

Mrs. Delia Lovia Gonzalez, 23-year-old mother who speaks little English, pleaded guilty in district court Friday to petty larceny.

She was placed on one-year probation by District Judge Pro Tem P. K. Puckett.

Mrs. Gonzalez, mother of boys 2 and 4, was accused of stealing a bag of groceries from the home of her landlord, Charles L. Mauldin, 216 Old Fort Road, July 9. At a court appearance Wednesday, she asked for additional time.

Her plea was heard through an interpreter.

Deputy To Leave To Return Con

Deputy Sheriff Del Summers leaves for Folsom Prison near Sacramento Monday to return Norris Pier, wanted here on a forgery charge dating back to 1957.

The district attorney's office prepared extradition papers for Pier last week. He was to be released Monday from Folsom, where he is serving a forgery term.

Pier is accused of passing a worthless \$72.16 check at the Western Union office here September 19, 1957, for which he bought a \$70 money order and got change.

June OTI Grads Attend School

Three June OTI graduates from electronics technology are attending school this summer at Kingston, New York, for International Business Machine. They are studying to become computer field engineers.

The students are James McClay, son of Mr. and Mrs. Marshall McClay of Klamath Falls, Duane Davidson of Valseltz and Leon Duerksen of Dallas.



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In The Day's News

(Continued from Page 1)

Well, he was with President Roosevelt at Tehran and Yalta. Plenty of mistakes were made at Yalta and Tehran. We now know that some of these mistakes were tragic. Among other things, they laid the foundation for the present mess in West Berlin. But it's highly doubtful if Mr. Bohlen influenced President Roosevelt very much at these meetings. Even Churchill wasn't able to influence FDR at Tehran and Yalta.

Bohlen wasn't in the decision-making echelon at either place. He was just a consulting expert. But the fact that he was on FDR's consulting staff on these occasions doesn't sit well with Republican senators of the type of Bridges and Dirksen, who are suspicious (perhaps with reason) of everybody who had anything to do with the Roosevelt administration.

Let's put it this way: Mr. Bohlen is an accepted expert on Russian affairs. He got his knowledge the hard way. The knowledge of Russia and Russians that he has obtained can be very valuable to us. We shouldn't waste it.

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Career Ends For Newsmen

WASHINGTON (AP)—Eugene Meyer, who took over a bankrupt newspaper and built it into one of the nation's finest, is dead at 83.

Meyer bought the Washington Post for \$825,000 in 1933 at a time when many men would be thinking of retiring. At 57, he had behind him a successful career as a banker and long service in important government posts under every president since Woodrow Wilson.

The Post was in receivership. It was in the depth of the depression. Circulation was down to 50,000.

Meyer was a Republican. But he announced in a front page statement that the Post would be fair and unbiased in its news columns and that its editorial page would be strictly independent.

Under his direction the Post slowly gained back readers and influence. By 1954 circulation was near 200,000. Then the Post bought the Times Herald, Washington's other morning newspaper. It now has a daily circulation of 393,000 and a Sunday circulation of more than 446,000.

Meyer died Friday at George Washington University hospital of cancer and a heart ailment.

Hearing Slated In Check Case

Preliminary hearing is scheduled Wednesday for W. R. Chumley, 35, Kingsley Field, accused of passing a worthless \$12 check at Market Basket No. 1 on July 10.

Chumley was arraigned before District Judge Pro Tem P. K. Puckett Friday. He was accused of passing a \$12 check, written on the Klamath Falls branch of the First National Bank of Oregon, for which he received \$4.76 in groceries and \$7.24 in change.

The charge against him is obtaining money and property by false pretenses, a felony. He was jailed in lieu of \$1,500 bail.

REVEALING NOTE

PORT ARTHUR, Ont. (AP)—Forty years ago a public school teacher here refused a school board request to sell thrift stamps to her students. Noted on a scrap of paper recently found in the board's archives was the comment: "reason—pure cussedness and pig-headedness."

Unrest And Discontent Set Argentine Situation

BUENOS AIRES (AP)—Argentine military leaders fought to overthrow dictator Juan Peron less than four years ago. Now some of them are threatening to oust President Arturo Frondizi and his constitutional government.

Frondizi has shuffled his cabinet, fired his war secretary and made other changes in his government to appease the rebellious military. For the present the president seems to be winning his battle to stay in office but high ranking officers are still saying only Frondizi's resignation will avert a coup d'etat.

Why are they anxious to destroy the constitutional government they fought so hard to establish?

Foremost among the reasons is what they regard as coddling of Peron's followers during most of Frondizi's 14 months in office.

Lack of a firm hand at the rudder has also annoyed the military. Economic difficulties are not of Frondizi's making. However, many contend the president has not provided strong leadership. His military critics do not oppose Frondizi's program to put Argentina on its feet but say his execution of the plan is so erratic the country is drifting into chaos.

Foremost among the rebellious group are violent anti-Peron officers, called "gorillas" by their opponents.

Frondizi had some harsh things to say about them in campaign speeches when he was wooing Peronist votes. Because of the economic plight of the nation the "gorillas" have been able to rally support in the armed forces to their view that Frondizi must go.

Some of the agitating among the military is probably being done by those seeking power for the sake of power alone. A good part of the restlessness in the armed forces comes from a simple squabble of different groups in the military each wanting its men in charge.

The rebellious group got fresh ammunition when Peron released a document covering an alleged agreement with Frondizi. The administration called this a forgery. The paper detailed a prelection deal whereby Frondizi would get votes from Peron's followers in exchange for concessions to the Peronistas after he was elected.

Seed Growers Meet Monday

TULELAKE—Frank Howard, director of Calapproved Seed Growers Association, announced a meeting has been scheduled for seed growers in Northern California at the Sportsman's Hotel, Tulelake, Monday, July 20, starting at 8 p.m. (DST).

E. Vander Meulen, manager, will discuss in detail a new marketing program with Calapproved has initiated with several of the Midwest cooperatives. This past year Alskise grower members of Calapproved received approximately \$4 per cwt. more for their seed than average sales of the state. This was made possible by reducing the normal service margins of the seed trade and the savings being reflected to the Alskise growers.

Howard reports that Calapproved handled over one half million pounds of Alskise clover this past season which represented nearly 50 per cent of the total state production. He said the new marketing program is a real benefit to the Alskise growers, who in recent years have been confronted with low returns for their seed crop.

Ed Seus, field representative for Calapproved, will be in a position to discuss all the services of the association and the advantages of cooperative marketing.

Kenneth Baghotz, farm adviser Tulelake, will discuss in detail the possibilities of grass seed production of improved strains which have been developed in recent years.

All growers are urged to attend this special meeting to obtain up-to-date production and marketing information.

2 Jobs Open For Teachers

LAKEVIEW—Teaching positions in the Lakeview schools for the coming year have been filled with just two exceptions, according to H. B. Ferrin, superintendent. There is a sixth grade vacancy in the A. D. Hay School, and one in the high school science department.

Royle C. Rowe, last year's science instructor, has accepted a position in a larger school.

Berge A. Borrevik Jr., a University of Oregon graduate who has been teaching at Mid-Pacific Institute in Honolulu for the past two years, has been signed for the job of junior high science teacher and will also be head basketball coach and assistant in other sports for that division. He and his wife will arrive in Lakeview about August 15.

There are two new teachers on the high school faculty. Mrs. Fern B. Walton, a graduate of Lewis and Clark College, with five years of training, will be in the English department. She will also have charge of dramatics.

The new girls' physical and health instructor, will be Mrs. Blanche E. Boulden, who has been teaching at Heppner High School. She will also supervise GAA.

Other new teachers this year include Mrs. Albert H. Leuthausen, home room teacher in junior high one-half day and classes in high school English for a half day; Charles M. Wark, sixth grade in the A. D. Hay School; Mrs. Mabel Harris Johnson, fifth or sixth grade at A. D. Hay; Mrs. Elizabeth Baker, third grade at Fremont; and Mrs. Virginia M. McPherson, also third grade at Fremont School, are additional teachers added in the primary grades because of increased enrollment.

Mrs. Josephine Goss will teach the second grade at Fremont School.

Obituaries

BRASHER
Home on Wednesday July 22, at 1:30 p.m. Interment in Klamath Memorial Park.

JOHN
Zetta Mae John, 36, died here July 17. She was a native of Sprague River, Oregon and a lifetime resident of this county. She is survived by two daughters, Marilyn Jean John and Marilyn June John, both of this city and one brother, Donald Schonchin of Beatty, Oregon. Funeral services will take place from the Beatty Methodist Church, Beatty, Oregon on Tuesday July 21, at 11 a.m. and 1:30 p.m., with the Rev. Harley Zeller officiating. Concluding services with vault entombment will follow in the Masekeskat Cemetery. Ward's Klamath Funeral Home in charge of the arrangements.

WISEMAN
Florence Lula Wiseman, 80, died here July 17. She was a native of Fairpoint, Minnesota, and a resident of this community for the past seven years. She is survived by the widower, Charles of this city; two daughters, Mrs. Richard Lockrem of this city, Mrs. Lyle Pfeiffer of Yamhill, Oregon; two sons, Merton of Cleveland, Ohio, LeRoy of Ft. Shaw, Montana; two brothers, Clarence Grilley of Edinburgh, North Dakota, Irvin Grilley of Derring, North Dakota; three sisters, Mrs. C. S. Allen of Derring, North Dakota, Mrs. Lorinda Griggs of Billings, Montana, Mrs. Frances Fast of Polson, Montana; 13 grandchildren and four great-grandchildren. Funeral services from Ward's Klamath Funeral

GRIMSLEY
Funeral services for Elba Ann Grimsley, 82, who died here July 17, will take place from the chapel of Ward's Klamath Funeral Home on Monday, July 20, at 2 p.m., with the Rev. Harry M. Strachan of the Klamath Temple officiating. Concluding services and interment will follow in Klamath Memorial Park.

Ex-Resident Death Told

Word has been received here by D. D. Reeder of the accidental death some time ago of George Dickerson, 70, former longtime resident of this area.

A medical officer in World War I, Dickerson was wounded in France and upon his physician's orders, led an outdoor life upon his return. For many years he was employed by the Jack O'Connor sheep operation, working in Oregon and during winters supervising some of the operations in California. He also lived for many years in the Silver Lake area of north Lake County.

His war injury had impaired his hearing and he was killed when he drove his car onto the tracks of an oncoming train in central California. It was thought he had not heard the train's whistle as it approached the crossing.

Rites Held For Yrekan

YREKA—Funeral services were held for Charles Edward Johnson, 85, at 2 p.m. Friday, July 17, at Girdner's Funeral Chapel with the Howard Lodge, AF & AM and the Rev. Harold C. Coleman officiating the services, with interment in the Evergreen Cemetery.

Honorary pallbearers acting in absence were John Madison, Frank Jackson, Richard Noble, William McCrea, Robert Julian and Kenneth Duncan.

Mr. Johnson died in the Siskiyou County General Hospital Tuesday evening, July 14.

He is survived by the widow, Ruby; two sons, Loyd E. and Paul D. Johnson, Yreka; a half-brother, Romeo Stuart, Butte; three grandchildren and one great-grandchild. Mr. Johnson was past master of Sheridan Lodge AF & AM No. 20 of Sheridan, Montana; past patron of Eastern Star, and a member of Cyrus Chapter, Royal Arch No. 15, Siskiyou Council No. 24, and Order of Amaranth, Siskiyou Court No. 100. He was a Spanish-American War veteran.

Drive Scheduled For Bly Family

Mr. and Mrs. Marvin Ward, Bly, recently lost household goods and personal articles when a fire swept their home it was announced Saturday by the local Red Cross. No one was injured in the fire.

Ward, an employee of the Oregon State Highway Department, has six children ranging in age from 4 to 14.

Anyone wishing to aid the family by contributing clothing, household supplies or furniture may bring them to the Red Cross office on Monday or call the office, TU 4-4125. On Sunday contact Mrs. Larry Watkins, TU 2-2072.

Daughter Of Henry Fonda To Seek Screen Career

By JACK GAVER
UPI Drama Editor
NEW YORK (UPI)—Attention, Hollywood! Another Fonda is headed your way.

Next Tuesday a moderately tall, slim 21-year-old girl, with large compelling dark-blue eyes and a shock of shoulder-length golden hair, will step off a plane in the movie capital to seek a screen career as her father did almost 25 years ago.

She is Jane Fonda, daughter of Henry. You can't mistake her; has features just like her dad's. Hollywood, of course, is no strange place to Jane. She was born there and lived there until she was 10, when her father returned to the East to resume his stage career after World War II. And she has visited there in recent years.

But now she is returning as an actress, leading lady of "The Way the Ball Bounces," which Joshua Logan will produce and direct for Warner Bros. release. This is last season's Broadway stage comedy about college basketball and romance, "Tall Story." It's her first film role.

Although her acting experience has been limited, Miss Fonda is, outwardly at least, as poised as

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