

Problems Plague Scientists In Effort To Place Man In Orbit

By RAY CROMLEY
WASHINGTON (NEA)—With the troubles they're having, the best U.S. scientists expect is that an American will spend a brief five minutes in space some time late next summer.

If all goes well, the astronaut will be shot up in a ballistic orbit, go about 140 miles, and be parachuted down.

It won't be until the winter of 1961-62 that an American can be sent into orbit around the earth. Even if things go right, he'll make only three circuits, then drop into the Caribbean.

In his four and a half hours circling the earth at 17,400 miles an hour, he'll study the world 100 miles below through a built-in periscope. On command, he'll practice minor satellite "maneuvers"—rock his capsule back and forth, make it face in different directions.

It won't be until well into 1962 at the earliest that an American will circle the earth a day and a night—eat, sleep, stomp around weightlessly in his tiny capsule—for 18 trips around the globe.

Plot Nipped

JAKARTA, Indonesia (AP)—Dispatches from Medan said Saturday army authorities controlling the state-owned Pertamina Oil Co. in North Sumatra have nipped a plot by Moslem Darul Islam extremists to blow up the plant. The company's public relations chief, Lt. R. Maha, was quoted as saying 43 persons, including 39 employees of the company, have been arrested.

COUNCIL MEETING

The Bonanza City Council met in the library at 8 o'clock December 7 with Mayor Walter Casebeer presiding. A discussion was held on the poor telephone service and the council has been advised by the company that workmen are busy in Langell Valley and Bonanza every day trying to find the trouble. The council has signed up with the Civil Defense Unit with Robert Hartley as director in Bonanza. Two signs will be put up at Bonanza park "Children At Play."

"ROSE DIAMOND"
The term "rose diamond" comes from the 1500s, when a new method of cutting diamonds was introduced. This method produced diamonds somewhat in the shape of a rose.

The reason for these far-off dates is that the space scientists have some thorny problems to solve. They've got to find out if their ungainly-shaped space capsules—with their squashed-out bottoms—will hold together in the terrific air shocks of missile blast-offs. The gadgets have proved sound in wind tunnels and in minor flights. But can they stand the rugged shock provided by an Atlas missile takeoff?

Space scientists have figured with paper and pencil how to keep these man-carrying high-speed capsules from burning up when they hit the earth's atmosphere. But they're not sure their ideas will work.

For one, they're going to experiment with coating the capsules with a special heavy layer designed to turn to gas when it heats—leaving the capsules and their men intact.

The third problem is making the complicated mechanisms work every time, as they must in space. Yet this man-in-space system is so complicated something is almost certain to fail.

Eventually there will be a 16-foot escape mechanism on top of a three-foot parachute tube, on top of a seven-foot man-carrying capsule, on top of a 65-foot Atlas missile.

The launch missile is fired. If it misfires the capsule and escape mechanism must automatically blast away from the missile, then separate in two, actuating a small stabilizing parachute and setting off a cargo parachute to let the man-in-capsule down gently.

If the missile works, this is what must happen automatically. Sixty to 80 miles up, the capsule-escape mechanism separates from the missile; the escape mechanism separates from the capsule.

The man-in-capsule floats through space for its allotted period—five minutes, four and a half hours or 24 hours, while jets make it face in the right direction.

Then a jet in the capsule's bottom slows it down to re-enter the atmosphere. At 100,000 feet, a small parachute opens to keep the capsule from tumbling end over end. At 10,000 feet, the big parachute opens. Meanwhile, aluminum foil is released so the capsule can be tracked by rescue radar squadrons.

When the capsule hits the sea, chemicals are released that color the water for miles. A revolving

light begins turning. Several radios broadcast homing signals that can be heard for hundreds of miles.

That's a lot to go right automatically.

The fourth major problem is finding out whether man can "take it" in space. Before any of the seven human astronauts are allowed into space a series of carefully-nurtured specially intelligent, alert Rhesus monkeys and chimpanzees will pave the way.

Once in space, the monkeys and chimpanzees will be ordered—by light signals—to press buzzers, so other "tasks." By TV's plant-

ed in the space capsules, ground scientists will watch the primates to see if space confuses their senses.

Solving these space problems will require a series of 20 to 30

special space and orbit launches before man, himself, circles the earth.

So with trial and error—and time—the first American will get into space. But not tomorrow.

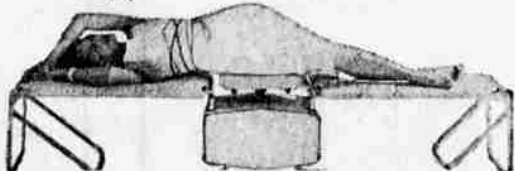
Science Shrinks Piles New Way Without Surgery Stops Itch—Relieves Pain

New York, N. Y. (Special)—For the first time science has found a new healing substance with the astonishing ability to shrink hemorrhoids, stop itching, and relieve pain—without surgery. In case after case, while gently relieving pain, actual reduction (shrinkage) took place. Most amazing of all—results were thorough that sufferers made

astounding statements like "Piles have ceased to be a problem!" The secret is a new healing substance (Bio-Dyne)—discovery of a world-famous research institute. This substance is now available in suppository or ointment form under the name Preparation H. At your druggist. Money back guaranteed.

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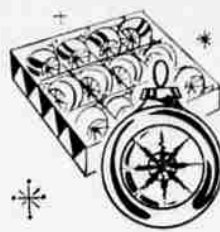
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