

MUST HAND IT TO THEM

Ithaca, N. Y. (UPI) — Cornell University psychologists have found a way of judging personality by the way a person grabs a knob, dial or handle.

They say they can tell by the hand-grasp whether the person is aggressive or deferential.



SHOJI SCREEN — Beautiful background for your tree is a charming fiberglass reinforced shoji screen or room divider. It can be bought ready-made or easily made by hobby. — By Filon Plastics Corp.

Editor's note: How do scientists arrive at their estimates that America is so many years behind the Russians in a given field of space exploration? What do these estimates mean? And what is the score sheet today in the various contests? UPI correspondent Joseph L. Myler gives some of the answers in the following dispatch.

By JOSEPH L. MYLER
Washington — (UPI) — Scientist X says the United States is at least two years behind the Russians in space. Scientist Y says five years. Scientist Z says maybe a decade.

Such estimates are guesses. Even if one of them was right, no U.S. scientist can possibly know when or whether this country ever will catch up. Only the Russians are in a position to make a logical estimate of the gap between them and us. They are privy to most of the U.S. space capabilities and plans, which are public property, whereas this country knows little about theirs.

Lacks Space Muscle

When scientists say the United States is behind the Russians, they mean mainly that it lacks their space muscle. They have the more powerful rockets with which to boost scientific payloads into space.

This country has launched more satellites and space probes — the score is about 15 to six.

But two years after 180-pound Sputnik I, the heaviest scientific satellite America had managed to put up was 90-pound Explorer VII. So it was more than two years behind Russia's first and feeblest space achievement.

U.S. officials say the Russians went to work on powerful boosters seven years before this country did. By some time in 1961 the United States expects to have a rocket vehicle capable of matching muscles with the booster that put Russia's 2,925-pound Sputnik III in orbit May 15, 1958. By 1964-65 America may have a rocket roughly twice as powerful as those which flung the Soviet Luniks into the sky.

No Resting on Laurels

But no U.S. space official expects the Russians to rest on their laurels in the meantime. To catch up with the

Russians and eventually take over the lead, the United States would have to come up with a rate of progress greater than theirs. Has the United States established a development program capable of pulling it even with the Russians?

The answer, according to a noted American space scientist, is "no." According to this scientist, Dr. William H. Pickering, the United States is not competing with the Russians in space. Pickering, director of the jet propulsion labora-

tory at Pasadena, Calif., said this country must work harder or declare itself out of the race.

In many respects U.S. scientific accomplishments in space, despite weaker muscles, have been greater than the Russians'. We discovered the radiation zones named after Dr. James A. Van Allen of the State University of Iowa.

Americans discovered that the earth is slightly pear-shaped. They also learned that the atmosphere is denser and hotter at satellite altitudes than had been supposed.

Virtue of Necessity

Since the United States lacked rocket power, it made a virtue of necessity and carried the art of miniaturization perhaps farther than the Russians have. Where the Russians allot pounds for a specific instrument, this country can afford only ounces.

U.S. scientists are fond of saying that some American satellites and probes have been "more sophisticated"

Largest Balloon Launching Slated

New York (Science Service) — The largest balloon ever made is scheduled to be launched Nov. 27 from Sioux Falls, S.D., by scientists from New York University's college of engineers here, if wind conditions are right.

The balloon will carry instruments to detect the presence, numbers and energies of the fast neutrons believed responsible for one of the earth's natural radiation belts.

When inflated, the balloon will hold 8 million cubic feet of gas, be 296 feet in diameter and 378 feet long. It is made of a layer of polyethylene plastic only one-thousandth of an inch thick, and weighs 960 pounds.

The instrument-carrying gondola will be packed with 255 pounds of equipment, 180 from New York University and 75 from Raven Industries, Inc., Sioux Falls, manufacturers of the balloon.

Scheduled launching time is 3:00 a.m., CST, Nov. 27, subject to local wind conditions. The balloon is expected to remain aloft 24 hours, much of this time at an altitude of 130,000 feet where it will be above 99.7 per cent of the earth's atmosphere.

Liquor Store Manager Named

Ashland — Ashland Businessman Dave Kerr has been appointed by the state liquor commission to succeed Ralph Burgess as operator of the agency store here.

Burgess, who opened the store on the Plaza 16 years ago, is retiring this week.

Kerr will resign his position as manager of the meat department of the Market Basket on Siskiyou boulevard. He came to Ashland in 1935 and is presently serving his second elective term on the city council.

The agency store here was the first of its type to be approved by the state commission. The system established under Burgess later was used in many other communities throughout the state.

Counties Budget Draws Criticism

Vale — (UPI) — The 1960 budget adopted by the Association of Oregon counties last week is drawing criticism.

Malheur County Judge G. Y. Chester wrote the group's executive secretary that various items in the budget had raised it \$16,045 from last year's budget.

"The association's budget jumped from \$28,350 to this year's figure of \$42,234," the jurist wrote, "and I don't feel that taxpayers should have to bear this extra burden."

The money is prorated throughout all counties in the state.

Chester criticized proposed expenditure of \$3,600 for a legal consultant, \$9,000 for travel, including expenses for the staff to attend a national convention at Miami, Fla., next year, and \$7,500 labeled only "public lands."

most part, was repetitiously firing a multiplicity of satellites and probes which blazed no new trails.

Consensus Unfavorable

The consensus appears to be that while U.S. science matches the Russians', it is far behind in space engineering. According to Pickering, it will take us years to acquire the engineering experience that the space age demands.

In atomic developments, the United States still claims the lead. Chairman John A. McCone of the U.S. Atomic Energy Commission said after a tour of Soviet nuclear power establishments and laboratories that "we are ahead" and are likely to stay there.

U.S. officials contend that the Russians built their big rockets because their hydrogen warheads were primitively big and awkward.

But according to McCone the Russians, too, have developed "the light, high-yield warhead." This, he said, has paid them "two handsome

dividends." The Russians can now deliver nuclear warheads at greater distances than first anticipated, McCone said, and they can put huge payloads into space.

"Hence," McCone said, "in this area they hold an advantage we cannot easily overtake."

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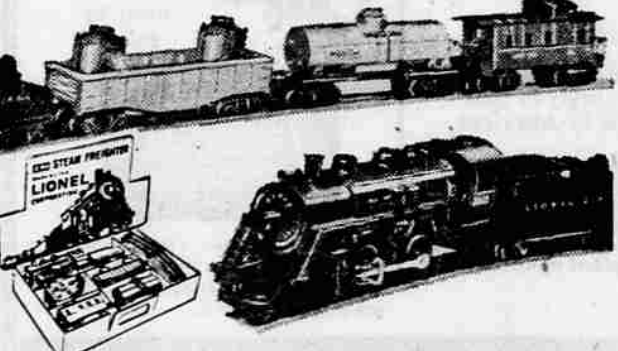


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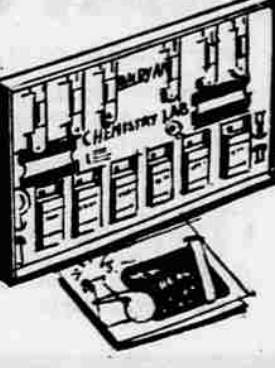
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