

Mapping Moon Will Be Important Part of First Manned Lunar Flight

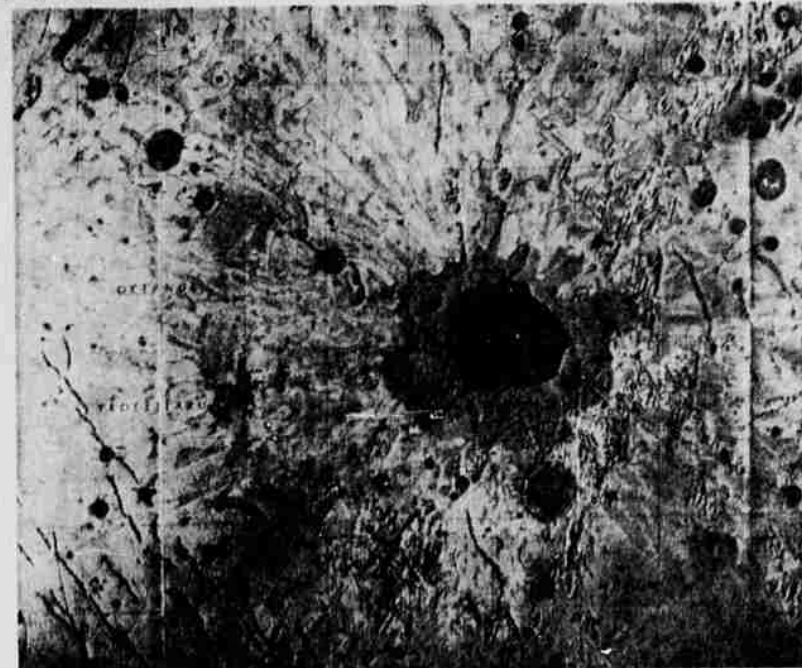
By AL ROSSITER, JR.
 Charlottesville, Va. — UPI — When an American astronaut first lands on the moon, he will step out on to what may be an ancient lava field untouched by a human and yet it will seem as if he were just following a road map into a new town.

He will be like a Christopher Columbus traveling to the new world with a detailed map of Central America.

Even as his bug-like space craft settles through a thin layer of dust on the moon's surface, the lunar explorer will have a good idea of what kind of rock he's landing on. He will probably know what's under it.

He will be able to look at a nearby crater, know what's inside and even tell its relative age.

Unlike Columbus, who was convinced only that the earth



LUNAR CHART—Printed in multi-colors, this map is one of a series of lunar geological charts. Its scale (one-eighth of an inch

Child's Behavior Problems Can Get Deeper With Growth

By DELOS SMITH
 UPI Science Editor

New York — UPI — It just isn't true children "grow like flowers, blossoming out from within," said Prof. Henry H. Work in a d m onishing p e diatricians and family physicians because so many of them assume children automatically "grow out" of their behavioral problems.

The truth is these problems can get deeper and firmer as physical growth goes on, continued Dr. Work who is a professor of psychiatry at the University of California Medical Center, Los Angeles. He was taking the stand that not nearly as many children are sent to psychiatrists as should be for the sake of their own adult mental health and well-being.

"Children grow and develop in relationship to the outside world and particularly in relationship to other human beings," he said in a technical organ of the American Medication Association. "This is especially true of those with whom they have close contacts, such as their parents."

Psychiatry Impressed

Scientific psychiatry has been much impressed by its experience that childish behavior is consistent throughout childhood, and this consistency applies most strongly to the children "who have gotten into conflicts early in life."

Early troubles "become exaggerated as time passes, and each stage builds on the previous one in a rather orderly fashion, thus it is that a rebellious adolescent may well have shown increased difficulties at the beginning of school and can often be recalled by the parents as one who was difficult to train in his very earliest learning experiences."

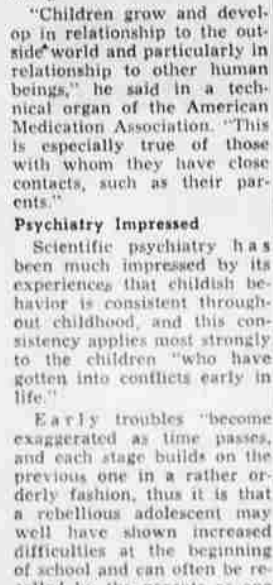
Physicians interested in children naturally become allies of the child, he said. If they do not appreciate behavioral problems can be accumulative in a deepening and worsening process, they dish out reassurances to anxious parents which are in no way justified.

For these physicians "interested in children" he described "hints" to which, in his view, they should be alert.

"One of these is the number of complaints that a parent makes about a child. Studies have shown that a parent who makes a large number of behavioral complaints about a child is demonstrating with good correlation the amount and intensity of the difficulty."

Consistency of Pattern

"Secondly, there is the consistency of behavioral patterns. A child who actively rebels during infancy and early years and continues to



do up to the early years of school is quite likely to be in need of help. Whenever one sees this pattern there is indication to interfere."

It is all very well for physicians to deal in reassurances — "It is one of the most powerful and ancient tools of the physician." They may even alleviate the behavioral symptoms of small children. But the symptoms may only go "underground," he said, and then reappear in the next developmental phase.

"It is quite reasonable to be an ally of a child, but children are neither loaded with original sin nor continually trailing clouds of glory." All of the range of adult behavioral pathology (sickness) can be demonstrated in children, and it is possible that were more attention paid to it earlier, less of the adult pathology, with which someone must deal, would be present."

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TO DISCUSS RELATIONS—Korean Foreign Minister Choi Duk Shin, right, is greeted by Secretary of State Dean Rusk as the former arrives at the State Department in Washington to begin conversations on political and economic relations between his country and the United States. (UPI)

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Two Subpoenaed in Oregon Land Deals

Portland — UPI — Postal inspectors said Wednesday two persons have been subpoenaed to appear before a federal grand jury here Dec. 13 in connection with reported probe into a land promotion project at Lake Valley south of Burns.

The probe was said to have been conducted by the Postal Service and the Federal Trade Commission.

A spokesman for the FTC in Seattle declined to say why the government conducted the investigation.

Oregon's real estate commissioner, Robert Jensen, recently toured land developments in eastern Oregon and said the state needs a subdivision law.

Milk is used as a barometer of fallout not because it is particularly likely to be dangerous, but because it is available in all seasons, and in all parts of the U.S., and thus is a good test material.



RUDOLPH STRUKOFF
 To Direct Choir

Milo Chorale Will Present Concert

The Milo chorale of the Milo Academy, Milo, Ore., will present a concert of sacred music at 7 p.m. Friday, Nov. 30, at the Medford armory.

Milo academy is a Seventh-day Adventist boarding school in Douglas county.

Local students among the 32 singers will be Delbert Cline, Richard Lenz, Ron Bechtel, Carolyn Bigger, and Gene Yost.

Rudolph Strukoff will direct the choir.

The concert, open to the public, will include favorite hymns such as the "Battle Hymn of the Republic" and "The Lord's Prayer" to classics such as "He Watching over Israel" from the Elijah and "Holy, Holy, Holy" by Gounod.

An offering will be taken to defray tour expenses.

Dr. Ross

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television pictures scheduled to be taken by the Ranger series of lunar probes.

But even with present information, the map is a great step forward in the National Aeronautics and Space Administration's preparation for the race to the moon.

It gives an impression that the area mapped, named the "Kepler Region", is like a rugged, rocky expanse on the top of a rocky mountain range — without the vegetation.

It shows an 18-mile wide crater, most likely caused by meteoroid impact, with a flat center of crushed rock and slopes fractured in several places by moonquakes — movements in the moon's crust.

About 50 miles on either side of the crater is a hummocky area of large blocks of rock, scattered ridges and

dome-like hills. Small shallow craters are strewn about.

To the west of the jagged crater area is a vast expanse of relatively smooth, dark-colored rock — the "seas" of early astronomers. These areas, called maria, are believed to be lava fields from volcanoes that once might have raked the moon.

Hackman said the great extent of the maria suggests the presence of thick sheets of basalt — a heavy, dark igneous rock found on the surface in many parts of the United States.

Covering much of the maria are layers of finely crushed rock, probably only several feet thick, radiating from large craters like spokes from the hub of a wheel. This material, called "rays", apparently is rock debris created when

pieces of solar bodies smashed onto the moon's surface.

Scattered throughout the maria are small craters, round hills which may be extinct volcanoes and long, narrow ridges similar in appearance to the Appalachian mountains of the eastern United States.

The ages of lunar rocks cannot be told in terms of years until men or instruments land on the moon. But the relative ages of major features have been determined by using the maria as a common denominator. Anything the maria covers is older and any craters smashed onto maria are younger.

Tedious Task

The moon mapping job is a necessary but difficult and tedious task.

The smallest object seen on the best lunar photograph is

one-half mile across and, with the use of a pair of pictures of the same feature viewed at a different angle for a stereographic effect, heights down to 1,000 feet can be measured. But an area one-eighth of a mile wide can be seen through a telescope under good viewing conditions.

And at lunar sunrise or sunset — 14 days apart because of the two-week length of a moon's day — when the sun casts a long shadow on the moon's surface, relief of 100 to 200 feet can be seen.

Because of the infrequent sunrises and sunsets on the moon, Hackman can look for lunar details only twice a month — and then only if the sky is cloudless.

"Sometimes he will call from Washington to check on

the weather here," Oswalds said, "and the sky will be clear. Then when he gets here (a two-hour drive), it will be raining."

After the Ranger probes, the next and final planned step before sending a man to the moon is the surveyor project.

The surveyor will be a maze of machinery designed to report to earth everything its human namesake could do and maybe more. It will bore into the moon's surface, chew up and analyze rock, and take its temperature and measure radioactivity. And while it's doing that, the surveyor will be scanning the area with television cameras.

With that information, the maps should be complete and the way paved for manned lunar exploration.

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