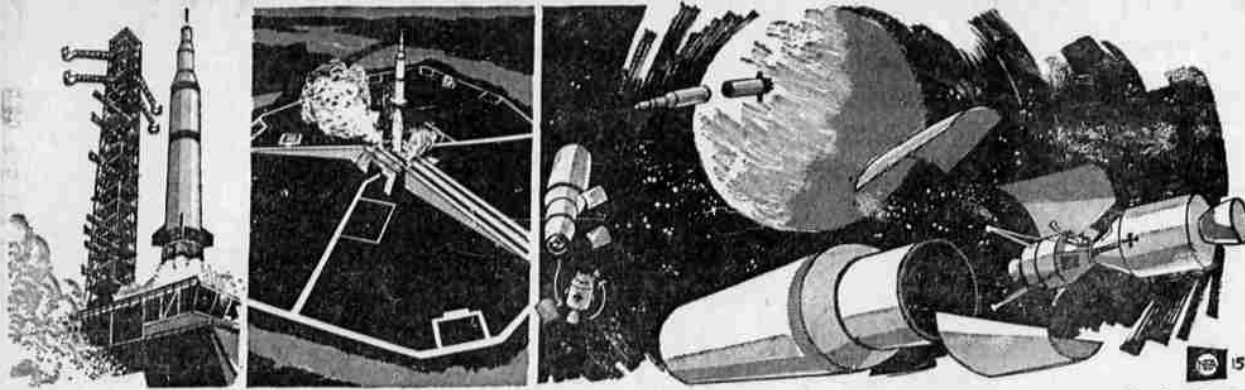


THE WIZARDS OF SPACE (15)

By Don Oakley and John Lane



The first American trip to the moon? It could come as early as 1968. It will take place no later than 1970, if the nation meets the goal set by President Kennedy.

But one day only a few short years from now a gigantic 355-foot Saturn V rocket will lift off its elevated and isolated pad at the Merritt Island complex at Cape Canaveral.

Six million pounds of men and metal will speed into the heavens, pushed by five great engines generating 7.5 million pounds of thrust—100 times more than the rocket which launched America's first satellite in 1958.

It will not be the first flight for the Apollo. Unmanned capsules will be launched in 1964 and 1965. Early versions of the Saturn will

place the entire Apollo system with crew into earth orbit in 1966. Possibly as early as 1967, the first Saturn V will send an Apollo crew around the moon and back.

Apollo will consist of three major sections or modules: the command, service and lunar excursion modules (LEM). • The command module, weighing 10,000 pounds, will carry the crew, guidance, communications and life-support systems. • The service module, weighing 50,000 pounds, will carry propulsion systems for midcourse maneuvering and entry into and escape from lunar orbit. • Finally, the lunar landing vehicle, or LEM, which will weigh 25,000 pounds, will carry two of the three crew members to the moon's surface.

Before heading for the moon, the Apollo will spend about three hours in earth orbit as final checks are made on all its systems. Shortly after leaving earth orbit, the command and service modules will swing around in a nose-to-nose position with the LEM. The first mid-course guidance correction will be made, determined by computer calculations made on board and by ground stations, which will be in constant contact with the spacecraft throughout the mission.

While coasting toward the moon—the trip will take 62 hours from earth orbit to lunar orbit—two of the crew will transfer to the LEM and prepare for the landing.

NEXT: The Moon Bug

Oregon Scientists Going After Great Gray Whale

PORTLAND, Ore. (UPI)—Herdisciplinary Approach to Whale Biology" has attracted about 15 scientists at the school and a number of students.

From an idea born in discussions more than a year ago, it has grown into a project encompassing many aspects of cetology—the study of whales—as well as investigation into human genetic growth.

Lyons has petitioned the U.S. Fish and Wildlife Service for permission to take grey whales, a species protected by international law since 1930 when they were almost extinct.

This species is needed because its migration past the Oregon Coast is well known and its breeding grounds charted. Pregnant whales are needed for part of the

program which includes studies of cetol hemoglobin.

Bioproducts, Inc., a fishing firm which opened a whaling station at Hammond, Ore., two years ago, will supply the boat and crew and dispose of the whale's remains.

One of the principal objectives of the project is a chemical called DNA (deoxyribonucleic acid) from the whale's organs. Scientists say it may hold the key to genetic reproduction in plants and animals.

Other phases of the project include studies of whale hemoglobin, the oxygen-carrying compound of the red corpuscles. Researchers want to learn if the same type of genes makes both whale and human hemoglobin, and they hope they can discover how evolution

created this compound.

DNA is the hereditary unit located on chromosomes that carries the information to make hemoglobin. Lyons explains that if cancer occurs in humans, the DNA

To See Premiere

SANTA MONICA, Calif. (UPI)—Mrs. Joseph P. Kennedy, mother of the President, planned to hold a news conference today following her arrival at this Southern California beach city.

Mrs. Kennedy was to fly to the West Coast to be on hand for the premiere Tuesday of the motion picture "PT-109," which depicts the President's adventures in World War II.

might have been traveling along a wrong pattern.

The cells, in obeying the nucleus, had the wrong message. They were following a "gloved up blueprint."

The important object here is the nature of such messages and whether or not they can be controlled or altered to a normal pattern.

This, in effect, could be the answer to a cause of cancer, Lyons said.

DOWNTOWN OFFICE SPACE
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Leave Family Alone And Forget Past

By ANN LANDERS

Dear Ann Landers: This will sound terrible but I'm really a very nice guy. I want my fourth wife back. I've had one marriage since Peg and now I know for sure that number four is the girl for me. I am 42, mature, and have been around enough to know the score. I am not stuck with any alimony raps because all my ex-wives remarried. All my kids have been adopted by their stepfathers so I have never been hooked for child support either.

The problem is that Peg's husband is a big shot and he might give me some trouble. He and Peg never had kids of their own and he is crazy about the boys. I haven't seen them in seven years but I hear the kids are very handsome—like me.

I'm sure Peg still loves me and that I could be a good father to the boys. I realize now I should have stuck with them. Do you think I have a chance? — BEN A ROUND

Dear Ben: Chance for what? A fat lip? Your sudden attack of paternity gets me right here, Pal. Your timing is cockeyed and I have only one recommendation: Get yourself good and lost and leave this family alone.

Dear Ann Landers: I would just love to get my hands on that girl from Minneapolis who said all fellows who wear white socks are yokels.

Did it ever occur to her that

some men must wear white socks—following doctors' orders? My husband is one of those unfortunate guys who is allergic to the dye in men's socks. His feet used to break out in a terrible rash and the itching drove him crazy. It took quite a long time before he was able to track down the cause of his trouble. Since he has worn only white socks he hasn't had any problem.

So please tell that big-mouth up there in Minneapolis it's unfair to judge people by the color of their socks. I don't like the looks of white socks either, but it's better than handbags. — NOT COLOR BLIND

Dear Not Color Blind: I was surprised at the number of wives who wrote as you did to say their husbands wore white socks because of feet problems. Others wrote to say they like the looks of white socks, and whose business is it anyway?

Dear Ann Landers: I am 26, have been married for five years and have two darling youngsters. My problem is not serious but I want to handle it with care because it involves my youngest sister.

Sharon is 17 and graduated from high school a couple of weeks ago. She is a very pretty girl and an unabashed flirt. She has been batting her eyes at my husband since she was 13. I always considered her behavior more adolescent than damaging. My husband ignored her aggressiveness until recently when he said, "Your little sister is boy-crazy and I hope she outgrows it soon."

Last night Sharon brought her graduation pictures over. She had a large one framed for my husband's office—those were her instructions. On it she wrote, "To Jess, with all my love forever and ever."

My husband does not want to take the picture to his office but he is afraid of hurting her feelings. What is your advice? — L.L.S.

Dear L.L.S.: The inscription disqualifies the picture from display anywhere. Keep it in the drawer. And if your sister inquires about it, Jess should tell her why it's not in his office.

Confidential to High Blood Pressure: Don't waste another minute on this dead subject. Tack these wise words by Omar Khay-

yam over your kitchen sink where you can memorize them: "Nor all your piety nor wit can lure it back to cancel half a line—nor all your tears wash out a word of it."

To learn how to keep your boy friend in line without losing him, send for Ann Landers' booklet, "Necking and Petting—And How Far To Go," enclosing with your request 20 cents in coin and a long, self-addressed, stamped envelope.

Ann Landers will be glad to help you with your problems. Send them to her in care of this newspaper enclosing a stamped, self-addressed envelope.

Two Elephants

TOKYO (UPI)—Communist guerrillas in South Viet Nam captured two of their biggest war prizes last week, it was reported today.

The Viet Nam news agency said the Communists seized two tame elephants trained for transport duty.

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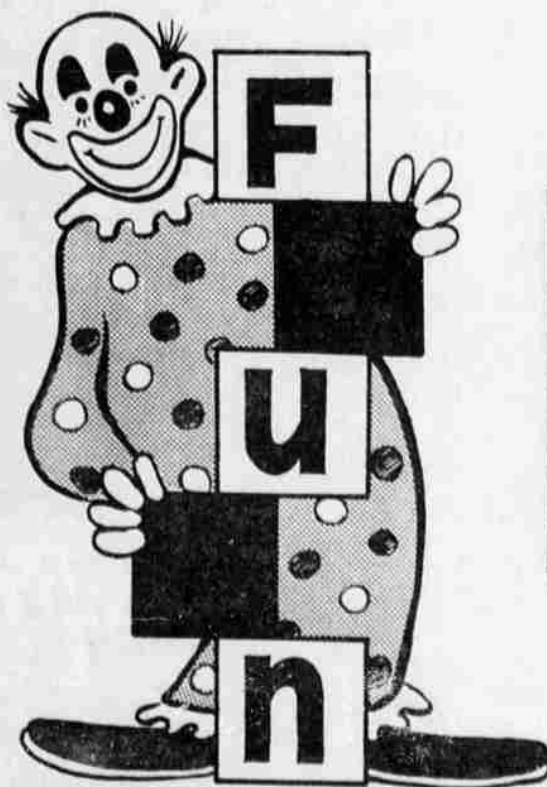
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Starting July 1 In The **Herald and News**