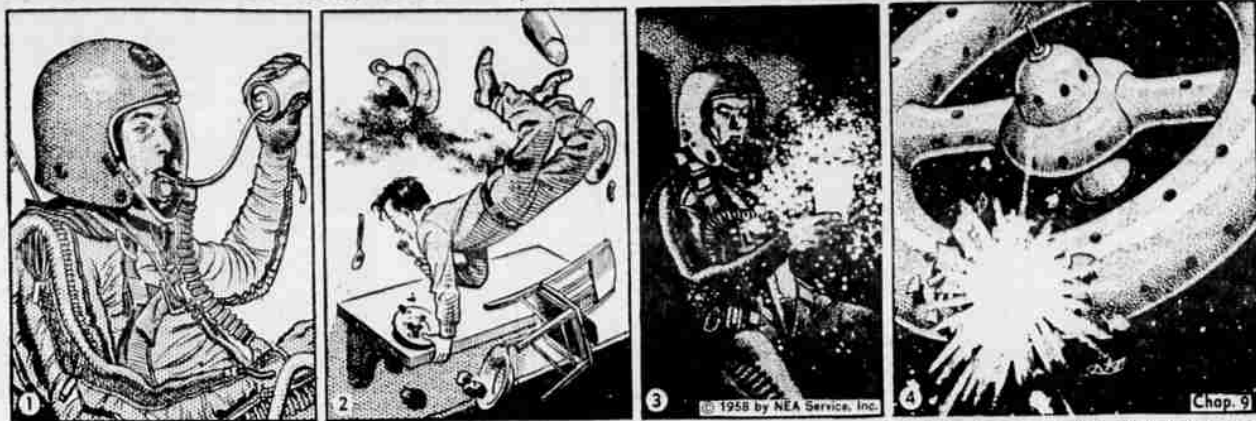


OUTWARD TO THE STARS (9)—Dinner in Space

By Don Oakley and Ralph Lane



(1) Once men achieve prolonged flights in orbit around the Earth, next to solving the problem of air supply, providing a means for removing carbon dioxide and body wastes, and recirculating air and water, the problem of food will be of prime importance. Most foods will have to be taken in a liquid state, sucked through a tube as this Air Force man is demonstrating in a test. Foods in squeeze tubes are also being considered.

(2) In a condition of weightlessness, dinner in space could be a hazardous adventure. Unless magnetized, utensils would float in mid-air. Knives and forks could still be used, but for any kind of solid food a modern version of chopsticks may perhaps be devised. Any cooking would have to be done in entirely closed containers.

(3) Another space hazard of no less importance is that of sudden decompression. In the vacuum of space, unless protected with a space suit, a man's blood would boil and the air explode from his lungs, tearing his throat and nose tissues. Air Force man in decompression chamber illustrates what happens to a bottle of water suddenly opened at low pressure. The same thing would happen to the body fluids in space.

(4) Even in a pressurized, thick-walled space ship or orbital station, the danger of sudden decompression will be ever present. This space station has been punctured by a large meteor, allowing air inside to rush out with explosive force. Automatic devices immediately seal off the punctured section. Although a collision with a meteor this large is expected to be a rarity, the possibility will always exist. And men will not know how great that possibility is until they actually go into space.

Next: Loneliness of Space.

Experts Warn Of Soviet 1960 Submarine Threat

WASHINGTON (AP) — A group of experts warned today that by the early 1960s missile-firing Soviet submarines will be capable of devastating American cities.

"A massive attack with such weapons could level our entire urban society," said the Undersecretary of Defense for Policy, Robert A. Lovell, in a report released by the House-Senate Atomic Energy Committee.

In its 16-page report, the panel painted a picture of grave peril ahead for the United States unless this nation's own submarine and antisubmarine programs are pushed with more vigor and on a much larger scale.

"In a future war," the report said, "the ocean could be our enemy as never before."

Therefore, said the panel, it was making these recommendations for meeting the danger:

1. The Navy should proceed with all speed with construction of submarines capable of firing the 1,500-mile Polaris ballistic missile. Present plans call for the first of these submarines to be available in 1960.
2. The Polaris submarine program should be kept separate from the Navy's regular ship budget. Polaris money requests should be determined by the secretary of defense and the National Security Council as part of the nation's overall strategic deterrent budget.
3. There should be a significant increase in the rate and scale of building attack submarines — the ones that track down enemy subs. The report described as too small a Navy goal of some 75 attack submarines by 1970.
4. The Navy's research and development budget for undersea warfare should be doubled, with substantial increases year by year.

Secretary of the Navy Thomas S. Gates, who said, "All of us in the Navy are keenly aware of this critical threat we face in the field of undersea warfare."

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Rosy Predictions Pile Up For Year's Remainder

By ELMER C. WALZER  
UPI Financial Editor

NEW YORK (UPI)—Predictions of a rosy nature are piling up for the remainder of the year.

International Statistical Bureau forecasts that total production based on the Federal Reserve Board index may reach 138 to 140 per cent of the 1947-49 average. It was 126 in April, the bottom of the recession, 133 in July and 145 a year ago.

The Fitch Survey finds consumer buying showing improvement with competition keener. It notes profit margins narrowing in fabrication with reduction in price spread to increase sales and adds that bargain sales get good response.

The official Washington figures, says Business Week, show that production has recovered one-third of its 1957-58 loss. "And many government economists believe gross national product will be back at its boomtime peak by year end."

Some sections of the nation don't know what recession is unless they read about it in the newspapers.

U. S. News & World Report lists cities where business is best. Casper, Wyo., for example, shows a gain of 13.1 per cent over a year ago in its income. San Diego, Calif., has a gain of 12.8 per cent. Denver is up 7.8 per cent; Wichita, Kan., 6 per cent; Phoenix, Ariz., 7.1 per cent; Washington, D.C., 7.1 per cent; Jackson, Miss., 6.9 per cent; Baton Rouge, La., 6.1 per cent; and Burlington, Vt., 6.3 per cent. Many others showed smaller gains.

There is a difference of opinion on profits. Standard & Poor's looks for a sharp upturn in the final quarter. The current Baron's says "There is no assurance as yet, nor tangible indications of a sweeping upsurge in profits sufficient to support a further major broad market rise."

The Commercial & Financial Chronicle notes that the highway building program in the United States is being accelerated with practically every state planning to increase its construction work during the coming year.

Construction is under way on 3,267 miles of the multi-laned interstate highway system in this country at an estimated cost of \$1.8 billion, the magazine notes.

The Chronicle finds that there is more engineering research now going on in road building than ever before and "as a result roads of the future should be substantially better."

The automobile industry is the key to the future that every one is watching just now. How well the new models are received will spell out whether there will be a big push this autumn. Prentice-Hall notes that consumers' liquid assets are at an all-time high and auto sales in 1959 could bounce back to around 5.7 million units against 4.7 this year.

Regardless of what happens in automotive, the steel market is well on its way to recovery, according to Iron Age.

Money is expected to be plentiful for legitimate business purposes but higher rates are looked for. Three Federal Reserve banks have raised their discount rates. Several others in recent meetings have taken no action which leads the American Banker, daily banking newspaper, to remark:

"From this non-action one may infer a lack of unanimity on money management policy of tightening at this time."

On the whole the business news is good. Now Wall Street would like to know what the stock market will do. It went up when business was much worse and the future it was discounting is now approaching.

Many Vessels Answer SOS Call

LONG BEACH, Calif. (AP) — The fishing boat Skipper II, sinking off San Nicolas Island, sent out an SOS. The fishermen marveled at the response, which included:

The cruiser USS Los Angeles. The aircraft carrier USS Bonhomme Richard. The freighter P&T Adventurer. Two Coast Guard seaplanes. A Coast Guard cutter, which towed the craft and fishermen John Marcus and Robert E. McInerney of Los Angeles to port here yesterday.

Geologists Say No Water Worth While In Imperial

SAN FRANCISCO (UPI)—Two California geologists claim there is no underground water worth bothering about in the Imperial Valley.

The geologists, Elmer Marliave of Sacramento and John F. Mann Jr. of La Habra, made this assertion Tuesday while testifying as rebuttal witnesses in the Colorado River water suit.

Marliave and Mann said they drilled seven wells at an estimated cost of \$40,000 in the past month. They drilled the wells at points where an Arizona geologist, Samuel F. Turner, said water-bearing strata existed underground.

Although they drilled as deep as 600 feet, Marliave and Mann said they found no sand and gravel bearing formations that might carry water. They said they did find impermeable silt formations that would make it almost impossible for the ground to absorb water that later could be pumped out.

They also said they found some water, but it was so salty it could not be used.

The existence of usable underground water in the case is important because it affects the amount of water California requires from the Colorado River.

Old-Timers Set For Good Time

PITTSBURGH (AP) — Grandpa and grandma are going to kick up their heels.

They're some 90 members of the Irene Kaufmann Settlement. And not a one will ever see age 65 again.

They left yesterday for a 10-day jaunt to the Emma Kaufmann camp in Harmony, Pa., about 30 miles from here, where they'll sing, dance, swim, play checkers and canasta and see movies.

SUCCESSFUL NAMPAs, Idaho (AP) — Flames destroyed the empty Majestic Theater yesterday, but firemen were successful in keeping the blaze from spreading to an adjacent building — the fire station.

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