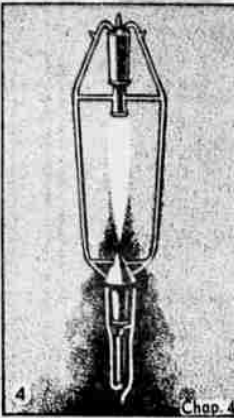
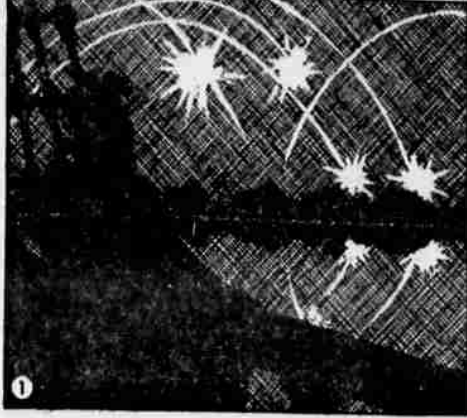


OUTWARD TO THE STARS (4)—Rocket Pioneers

By Don Oakley and Ralph Lane



(1) The story of space now turns to rockets. Known to the Chinese possibly as early as the 7th century...

wisest men knew that rockets offered the only practical form of propulsion. But not until the 1890s was any serious mathematical work done...

(3) In America, Prof. Robert H. Goddard built rockets to probe the upper atmosphere. He was the first to test rocket theories in the workshop.

(4) Like Ziolkovsky, Goddard arrived at the conclusion that—at that time—liquid rockets were the best source of power. In 1926 he launched the

world's first liquid-fueled rocket. Its two-foot-long motor burned for two and a half seconds. The rocket covered a distance of 184 feet at about 60 miles an hour.

In Germany about the same time, the Hungarian-born Hermann Oberth had also hit upon some of the same rocket ideas. His writings sparked the formation of amateur rocket clubs throughout Europe.

Next: The V-2.

Ex-NY Mayor Planning Film

MEXICO CITY (UPI)—Former New York City Mayor William O'Dwyer plans to film Charles

Dickens' "Oliver Twist" in Hollywood with English-speaking Mexican actors, the newspaper La Aficion said Tuesday.

It said O'Dwyer also hoped to undertake additional productions in a joint venture with Mexican producers.

Advertisement for SWP House Paint, featuring a can of paint and the slogan 'YOUR BEST BUY'. Price is 760 per gallon.

Advertisement for Gossen Sixtomat X-3 camera, highlighting a trade-in offer of 750 and a price of 2245.

Space Travel Meeting Held

PALO ALTO, Calif. (AP)—The hardware to shoot a man to the moon in a space ship may be in sight.

But a still unanswered question is: Could a human pilot survive the rifling bombardment of cosmic rays outside the earth's atmosphere?

"We really have no idea of how great the hazard may be," Col. David G. Simons, Air Force balloon explorer, told a man-on-the-moon symposium at Stanford University last night.

Simons reached 102,000 feet in a balloon flight last year and has two gray hairs on his forehead as a result. He said photoplate evidence indicates a hit from a primary ray killed the pigment cells of the hairs.

Relatively, Simons said, the heavy primary rays are like rifle bullets and nuclear radiation like shotgun pellets.

Beyond 150,000 feet altitude, man would encounter primary rays ranging free and unchecked by atmospheric molecules.

Simons said the University of Chicago is attempting to develop

a device for a comprehensive check of the density of the exploded atom particles in space.

"We do have tenuous evidence for assuming man could survive up to 24 hours of cosmic radiation," Simons told the closing symposium of the American Astronautical Society's Western region.

"RADIOACTIVE" TEA SAFE WASHINGTON (UPI)—The Food and Drug Administration has ruled that radioactivity in a cargo of Japanese tea that arrived in New York last month was far below the dangerous level. It said the tea was safe for human consumption.

"I Never NEVER Have ANTS In My House" Sprinkle it freely in my Jam Closet—so safe—no worry of poisoning! says Daville, Calif. lady.

Be Sure You Get BUGHACH California's Great Insect Powder—Safe—Easy To Use—Economical!

Japanese Fails Suicide Leap

OSHIMA ISLAND, Japan (UPI)—A would-be suicide, his love unrequited, trudged to the top of Japan's favorite lover's leap — volcanic Mt. Mihara — and promptly jumped into the wrong crater, police reported today.

Koichiro Wada, 25, a Tokyo merchant, plummeted all of 16 feet and wound up with a couple of scratches. He had expected to end his miseries with a 300-foot plunge into the active crater.

Crewman Dies As Jet Falls

FOLLETT, Tex. (AP)—A six-engine jet bomber crashed near this Texas Panhandle town last night, killing the engineer.

The three other crew members of the B47 from Biggs Air Force Base, El Paso, Tex., bailed out. The navigator suffered a broken leg and was hospitalized in Shattuck, Okla., according to Sheriff T. J. Tarbox.

The Air Force withheld the names of the dead and injured but said the others were Capt R. E. Held, 34, Ellingwood, Kan.,

and Norman E. Hermes, 23, El Paso. Amarillo, Tex., AFB said the ship was on an aerial refueling operation, but refused to comment further. Thunderstorms were reported in the area.

ADLAI IN ITALY FLORENCE, Italy (UPI)—Adlai Stevenson, who recently toured the Soviet Union and Eastern Europe, arrived here Tuesday night for a 10-day vacation.

Advertisement for Wood's Drugs, offering prompt and accurate service on prescriptions. Contact info: Medical-Dental Bldg., Phone TU 4-6712.

Advertisement for basketball shoes, featuring a cartoon illustration of a boy and a man. Text: 'three days only save 1.10 per pair'.

Large advertisement for Jeeper's basketball shoes. Features a detailed illustration of a shoe and text: 'our best selling, most popular men's and boys' basketball shoes', 'cushion arches sturdy canvas truly washable', 'regularly 3.98 now only 2.88 all sizes', 'White only', 'Sears famous cushion arch JEEPERS are hard to beat for comfort and long wear...'

Large advertisement for Rothmoor Trunk Showing. Features a woman in a dress and a trunk. Text: 'you are invited to our ROTHMOOR TRUNK SHOWING', 'FRIDAY August 22, 1958 9:30 a.m. to 5:30 p.m.', 'Yes, every luscious coat and suit in the fall '58 ROTHMOOR collection will be at your fingertips for one wonderful day!...'