

NAVAL AVIATION

NEWS



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THE NAVY GOES TO THE FAIR

Men, women and children of all ages 'fly' a jet bomber to a landing aboard an attack carrier. They scramble on to the beach with a wave of Marine assault troops. And they submerge to the ocean depths aboard a Polaris submarine. How? By means of 'Cine-Globe Cruiser,' a feature attraction at the Navy-Marine Corps Exhibit in New York's 1964 World Fair (see p. 20). Above, men of the USS Forrestal pose for helicopter-borne, wide-angled camera lens. When CVA-59 was deployed in the Caribbean last winter, it helped film sequences being seen each day at the Fair.



COVERS

Naval Aviation News is indebted to Sikorsky Division of United Aircraft for the front cover shot of the VH-3A Sea King hovering over the Jefferson Memorial, Washington, D. C., and to NAS Seattle, Wash., for the picture used on the back cover of this issue.



NAVAL AVIATION NEWS

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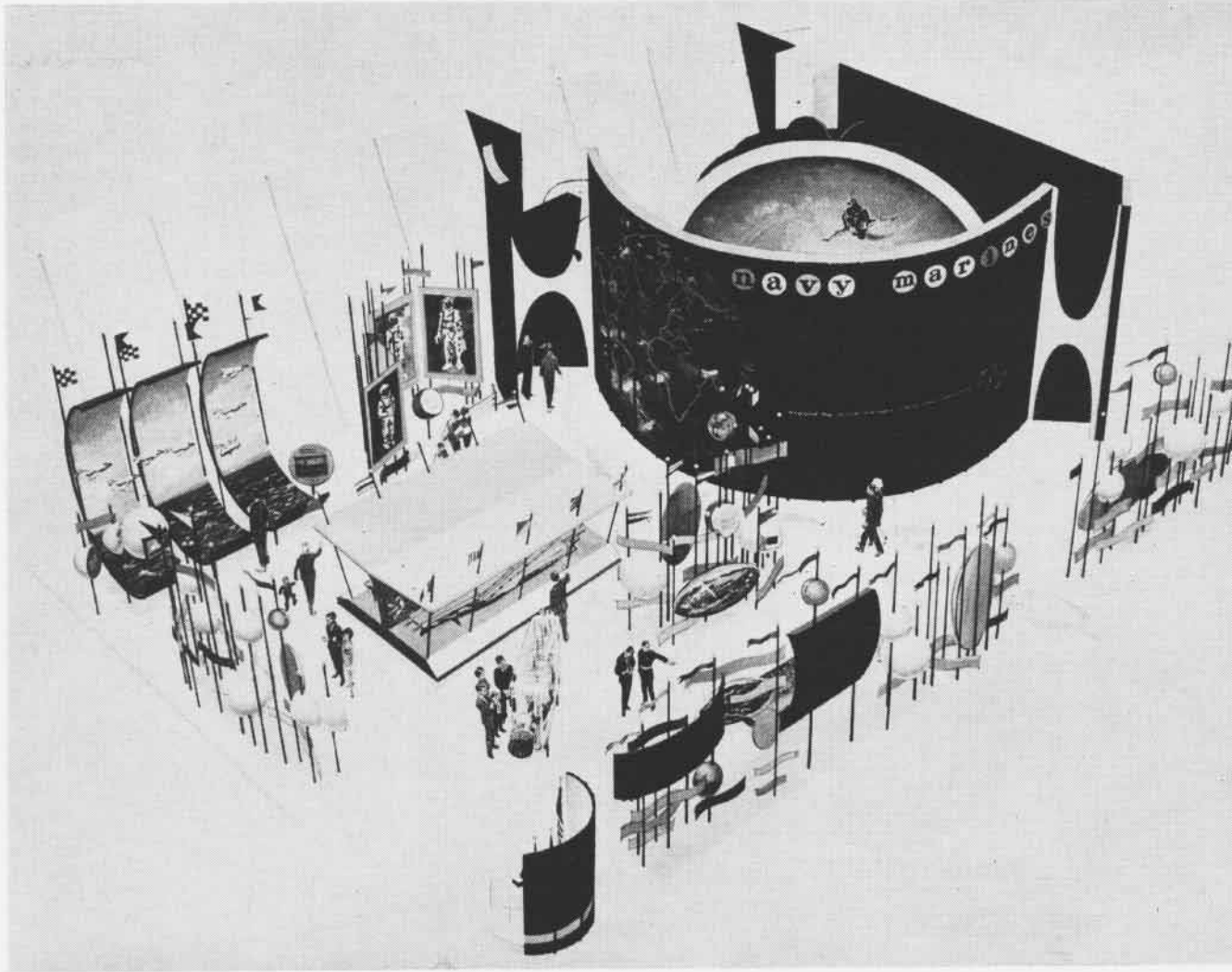
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NAVY MIGHT VIEWED AT WORLD'S FAIR

The people in the audience stand. Almost unconsciously they sway in unison, gripping the waist-high handrails. Held in a state of startled awe, their eyes are trained on the huge circular screen. They are "in" an airplane, a jet bomber, and looming ahead is an aircraft carrier steaming across the Caribbean Sea.

Their aircraft makes a slight dip of a wing, lines up with the foaming, white wake of the carrier and continues in its descent. The theater is alive with the sound of whining jet engines and brilliant color. Suspense and excitement build dramatically as the flattop grows frighteningly bigger. Then, suddenly, the ocean slides completely from view and the plane roars to a brutal halt on the flight deck.

Each day at the 1964 World's Fair in New York, hundreds of visitors share a carrier pilot's experience through

the magic of "Cine-Globe Cruiser." This unique photographic device takes the viewer inside of what appears to be a huge globe sliced in half. From 50 to 60 people are accommodated at each film presentation, only one sequence of which depicts a pilot's-eye glimpse of a carrier landing. There are several tracks of action-packed maneuvers and all combine to make the Cine-Globe theater a feature attraction at the Navy-Marine Corps Exhibit. Located at the Transportation and Travel Pavilion, the exhibit, entitled "The Navy-Marine Corps Team Around the World," will run through mid-October and begin again in April 1965 for another six months.

The Cine-Globe camera projects film through a special 142-degree lens onto the curved surface of a large hemispheric screen. This technique, incidentally, was first developed during World War II. At the time, the Navy used it with outstanding success as a gunnery training device.

Editors of the film selected operational tactics which would best give the audience a soldier or sailor's eye view of the action. The carrier portion of the film, for example, was recorded last winter by a 35mm camera mounted in the nose of an A-3 *Skywarrior*. Lt. Jim Flatley of the Naval Air Test Center, Patuxent River, flew the plane and operated from the USS *Forrestal* which was deployed in the Caribbean at the time.

Lt. Flatley's series of shots includes hangar and flight deck activity and a touch-and-go landing on the angled deck. Just as thrilling is a catapult shot during which the camera captures the thrusting power of an aircraft hurled down the cat track and off the bow.

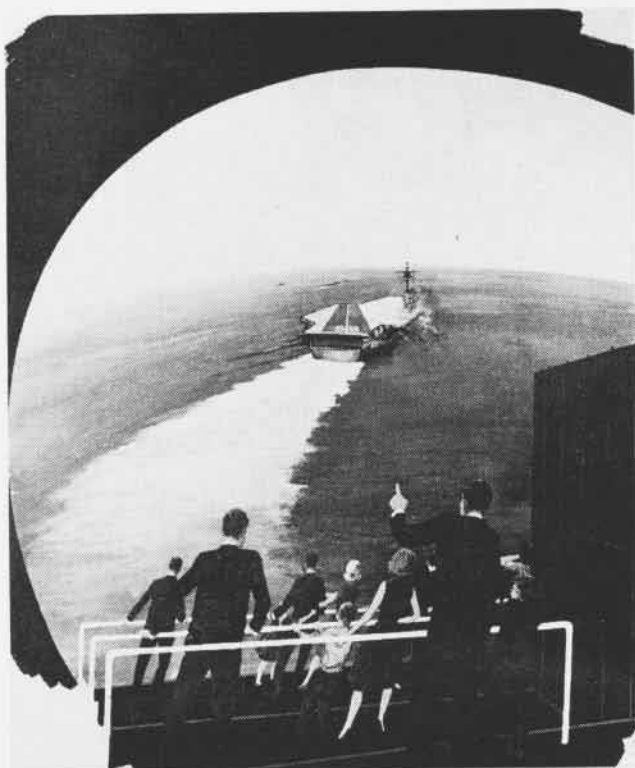
A camera was also positioned on the deck of a nuclear submarine during a submerging exercise while another focused on the sub's captain and crew as they go through their paces beneath the sea. Moments later, in this sequence, a *Polaris* missile is seen as it bursts through the ocean surface after an underwater launch.

The audience is also taken on an island assault with a wave of combat-garbed Marines. Again, authentic sound of gunfire and bomb blasts accompany the troops and the viewer as the landing craft thunders toward the beach, smashes onto the sand and lowers its ramp. Thus the visitor finds himself a member of the assault force hurtling across the terrain toward the objective area.

In the lobby outside the "Cine-Globe Cruiser" are a host of exhibits which depict a cross-section of hallmarks in Naval progress. They include displays of the SSB(N)/*Polaris* weapon system; amphibious operations; unusual vehicles used in research, particularly in oceanography; first line combat aircraft; antisubmarine warfare; nuclear-powered warships; a model of the frigate, USS *Constitution*, encased in a bottle; men and women of the Navy and Marines as world travelers and good will ambassadors; oil portraits of the four Navy and Marine officers who were among the original seven astronauts; and a presentation depicting the "Four Ocean Challenge" to U.S. seapower.



LT. JIM FLATLEY of the Naval Air Test Center poses in front of A-3 which had specially-rigged nose camera for the carrier sequence films.



THIS DRAWING shows the inside of "Cine-Globe Cruiser" at the World's Fair. The audience is "making approach" to USS *Forrestal*.

Coordinated with six of these groupings are continuously running 16mm reverse image, color motion pictures. Scale designs in each of the areas are of the highest quality and detail. Among these are models of the USS *Bainbridge*, a *Polaris* submarine, an amphibious transport dock, a 2200-ton destroyer, tracked and marginal terrain vehicles; the bathyscaph *Trieste*, the *Stratolab*; and the two-man, deep diving vehicle, *Alvin*. A particular stand-out in the display is a 12-foot long model of the nuclear carrier, USS *Enterprise* (CVAN-65).

In addition to all these, large murals and transparencies depict many other ships and aircraft as well as several operational scenes characteristic of the many roles the U.S. Navy plays in defense.

Throughout the exhibit, particular emphasis is placed on the men and women who wear the uniforms of the Navy and Marine Corps. At the reception booth, framed between the national colors on one side and the Navy and Marine Corps flags on the other, are these words: "This exhibit is dedicated to the 850,000 men and women of the United States Navy and Marine Corps who serve around the world in defense of freedom."

The Fair, which opened April 22nd, also features a display of rockets and missiles. The Department of Defense in coordination with the National Aeronautics and Space Administration have made available an array of the latest in space hardware. Included are a full scale "boattail" section of the *Saturn V* rocket designed to carry astronauts to the moon, a *Titan II-Gemini* launch vehicle and spacecraft, the *Apollo* spacecraft, the Lunar Excursion Module, an X-15 research plane and many other exhibits sure to be of great interest.