

THIRD A-SUB LAUNCHED-The USS Skate, third atomic submarine to be built for the United States Navy, slides down the ways at the Groton (Conn.) plant of General Dynamics Corp. Mrs. Lewis Strauss, wife of the atomic energy commissioner, christened the vessel. Still another atomic sub, Skipjack, is under construction at the left.—AP Wirephoto.

Refuses Names

those meetings.

## Clash of Experts Hinted Another A-Sub In Miller Contempt Trial Is Launched

A clash of experts on the best way to investigate communism may develop at the contempt-of-Congress trial of Playwright

Arthur Miller.

Defense Attorney Joseph L. Rauh, fr., told Federal Court third atomic-powered submarine, yesterday he may have to call in his own investigative experts to refute testimony by Richard Arens, the Government's sole yesterday, a \$50 million bundle

His statement came after Mr. answered only one question as of nuclear energy.

Arens was qualified—late in his an "expert."

Undersecretary appearance on the witness stand —as an expert in the investigation of communist activities. Mr. Arens is staff director for the House Un-American Activities

Activities

How, in your opinion as an axis and said she was a "symbol of American Communist activities, can Communist activities, can Communist discipline be established?"

The ways were the same as a symbol of American Activities

liam Hitz asked. Mr. Miller, husband of Actress
Marilyn Monroe, is being tried tablished or determined in a by the Seawolf, the 265-foot Marilyn Monroe, is being tried for his refusal to answer two questions put by the committee last June 21. As the third day of the trial neared its end yesterday, it appeared likely to become one of the longest contempt-of-Congress trials in recent Federal Court history.

Day to Cross Examine

tablished or determined in a wariety of ways," Mr. Arens replied. "It is established or determined by the actual contacts which a given individual has with persons who have been identified as functionaries of the Communist Party. This contact is most generally established by cell meetings of the Communist Party.

Earlier, Mr. Franke told the

Mr. Rauh said he probably Party. would need a day to cross-exam—

"A cell meeting is a meeting in 5,000 spectators he came here to launch what he called the first defense will put on its case.

"A cell meeting is a meeting in 5,000 spectators he came here to launch what he called the first defense will put on its case.

Although he had been on the sible. To establish Communist submarines. Flanking the Skate on the out what actually transpired in launching ways as he spoke were

#### the meeting." **Permit Denied** Mr. Miller, the committee was in-vestigating the alleged misuse To Sell Liquor

On 48th Place

Although Mr. Miller spoke freely of his associations with Communist groups in the past, he would not tell the committee who attended Communist writers meetings with him in 1947, or whether Arnaud D'Usseau headed those meetings.

Mr. Franke noted the atomic submarine construction program includes three sister ships of the Skate; seven more attack subs of another class; one large radar picket sub and one newly designed submarine.

Among those who shared the rostrum with Mr. Franke were

Mr. Rauh opened his crosswere represented at the recent
hearing by former Commissioner
Samuel Spencer.

Chairman Alan W. Barra and his wife

Mr. Rauh opened his crossexamination of Mr. Arens late
yesterday. After Mr. Arens testified that the committee "had information" from the State Despensor.

Mr. Franke lauded. Admiral

Chairman Alan W. Payne said the board made its own investigation of neighborhood sentiment in the case. Mr. McKenzie had presented petitions signed by a formation" from the State Department of the S presented petitions signed by a thing else? number of neighbors in that area in favor of the liquor store.

But the Palisades Citizens Association has been traditionally

sociation has been traditionally tention from an oral conversaopposed to the granting of a tion from a particular investigaliquor store in that neighborhood, tor, and I, perhaps, had a staff Citizens who testified at the hear- worksheet on it. ing last month contended it would be a bad influence on the formation?

youth, as well as a traffc hazard. A. I do not. Mr. Spencer had argued it was Q. Is it customary for the State that denial of the license would be an inconvenience to those desiring to buy liquor, because the nearest liquor stores are in Georgetown and in the 4800 block of Massachusetts avenue N.W.

A. No, sir. . . . We do not have a regular route of exchange with the State Department, as we do not have with any other department.

He made a plea that the board had granted a liquor license for sion, Mr. Rauh was reading from the 4800 block of Massachusetts avenue N.W., in the fashionable mitted to the State Department,

Spring Valley area, and urged it disavowing communism. to do likewise for the MacArthur The trial was recessed

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## Science Blunts the Nose Of Long-Range Missiles

Temperatures Rise

As they turn earthward, how-

aerodynamic drag. Missiles so

A scientist's discovery that has changed the shape of the Nation's long-range ballistic missiles was disclosed today after five years of secrecy.

Among the most fearsome United States weapons of the five years of secrecy.

The research of H. Julian Allen ICBMs—Atlas and Titan—and of Palo Alto, Calif., may provide America's thermonuclear Intercontinental and Intermediate Range Ballistic Missiles with the insurance they need against burning up from air friction. tion-free space. burning up from air friction.

the nose of a missile is blunt the weapon will shed much more of the heat generated from air friction than if the missile has the conventional pointed nose.

As they turn earthward, how-ever, they re-enter the earth's air blanket and are heated to extremely high temperatures by air friction. the conventional pointed nose. He is chief of the high-speed research division of the National Advisory Committee for Aeronautical Laboratory at Moffett

The committee said that before Mr. Allen started his studies in 1952, the design approach for ICBMs was to select shapes that would have the least amount of conditional day. Missiles so

Gets Highest Award

His achievement was anpearance, with sharply pointed
noses. here after a ceremony in which Mr. Allen said that the blunt James Doolittle, NCCA chair-shape seemed feasible after it man, arranged to present Mr. was learned that the maximum Allen the committee's distindeceleration of a missile was in-

ruished service medal.

The citation said Mr. Allen's acteristics and was determined work on the motion and heating only by the speed of its entry of missiles upon re-entering the into the atmosphere and by the atmosphere "contributed impor-angle of its flight path.



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Earlier, Mr. Franke told the

two other nuclear subs, both of

revolutionary design, the speed merchant Skipjack and the giant

Mr. Franke noted the atomic

rostrum with Mr. Franke were Admiral Hyman Rickover and

At the time the House called underseas electronic watchdog

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