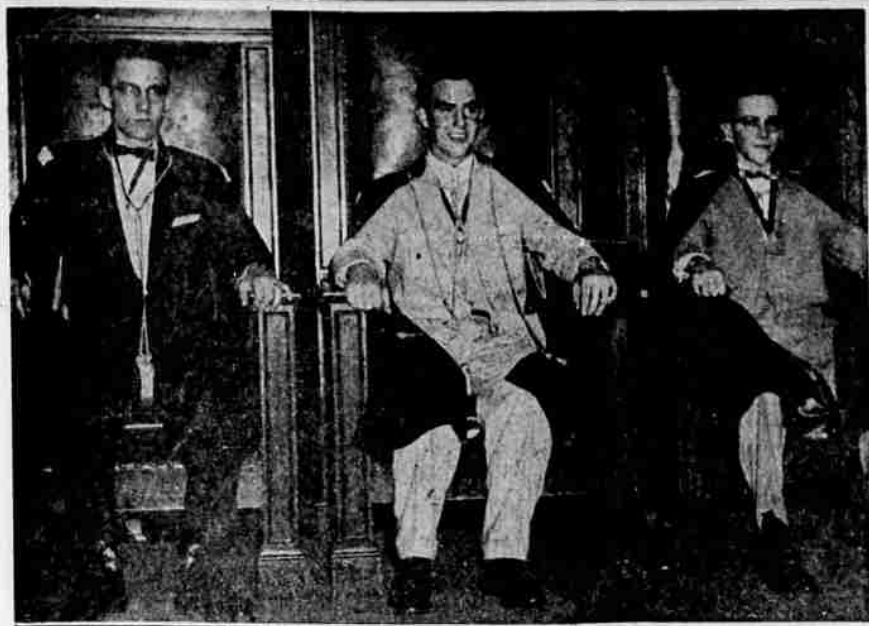




Sacred Heart Notebook

By ANN SARGENT
Mass attendance during Lent was the chief topic of the senior class meeting on Monday. The juniors settled the programs, decorations, refreshments, and the date for the Prom. During the sophomores' meeting reports were made on "Prayer" by John Barry, George Hurley and Elizabeth Sykes.

At the regular meeting held on Wednesday morning, Sodalis discussed March as the month dedicated to vocations. The members agreed to say prayers and short ejaculations to aid people in finding their true vocation in life. Prefect Marilyn Waters concluded the meeting with a short story on this topic.

SHA students have been busy writing poems to submit to the Catholic Daughters of America Contest, the Regional Pacific Coast Anthology, and the National High School Poetry Association. The former contest, which ends on March 15, will give prizes of \$100, \$50 and \$25 to the winners in each of its four divisions. The senior high division is limited to a 12 line religious poem.

The Pacific Coast Poetry Association has asked for contributions before March 31 from students in the Pacific Region schools. The outstanding entries will be published in an anthology to be issued this summer. The third contest is being sponsored by the National High School Poetry Association for the purpose of selecting manuscripts of 20 lines or less written by junior or senior high school students. The entries considered will be published in one of 26 anthologies around the United States. March 15 is the deadline for the 1958 competition.

Expert Claims Guidance Is Key To ICBM Success

DOWNEY, Calif. (UP)—Space scientists, like good outfielders, are developing their "throwing arms."

In order to peg a strike into the catcher's mitt, they've got to throw at the right speed and in the right direction.

And this brings us to the relatively new science of inertial navigation, "the science and art of determining a vehicle's velocity and position and other quantities necessary for guidance by measuring and integrating accelerations."

One of our leading inertial guidance experts, Dr. Donald B. Duncan, manager of advanced engineering for Autonetics Division of North American Aviation, says the success of either a moon rocket or an intercontinental ballistic missile has boiled down to a matter of guidance.

Guidance of rockets and ICBMs has reached a point where parking an unmanned rocket on the moon is "twice as easy" as hitting Moscow with an ICBM, Duncan said.

In fact, Duncan added, Opera-

tion Moon would be so relatively simple that the feat would have practically no real scientific value.

"Just hitting the moon itself probably would have more propaganda value than anything else," he said.

Duncan, a 32-year-old Cal Tech graduate, said "It would take only slightly more velocity—about 10 per cent—to hit the moon with a missile than it would to deliver the same missile to the opposite side of the earth."

It's almost completely a guidance problem.

"After all," said Duncan, "a satisfactory ICBM shot would have to hit a 10-square mile area from 5,000 miles away. It is 200,000 miles to the moon, but, the target there is 2,000 miles wide. I'd say it would be just about twice as easy to score a hit on the moon."

The inertial navigation systems now being perfected by Autonetics are completely self-contained and operate in the missile itself without any reference to earth-bound objects.

The navigation system of a moon rocket would be a super-intelligent grandson of the automatic pilot. It would include an electronic brain with a built-in "memory" unit and accelerometers which measure time and rate of acceleration to figure speed and position.

The flight plan of the moon rocket, Duncan said, would be pre-calculated before firing and the data fed into the memory unit of the brain, which would constantly calculate the rocket's actual flight path and speed and make corrections en route to the moon.

As comparatively easy as it would be to hit the moon, there is still no such project afoot in the United States "as far as we know," Duncan said.

From a technical standpoint, Duncan said, hitting the moon would be only the first step in a long-range program. The next step would be an unmanned reconnaissance satellite orbiting around the moon. Then would come an instrumented package on the moon to record temperatures, magnetic fields.

"The fourth step certainly will be to put a man on the moon," he said.

How would they know if the rocket hit the moon?

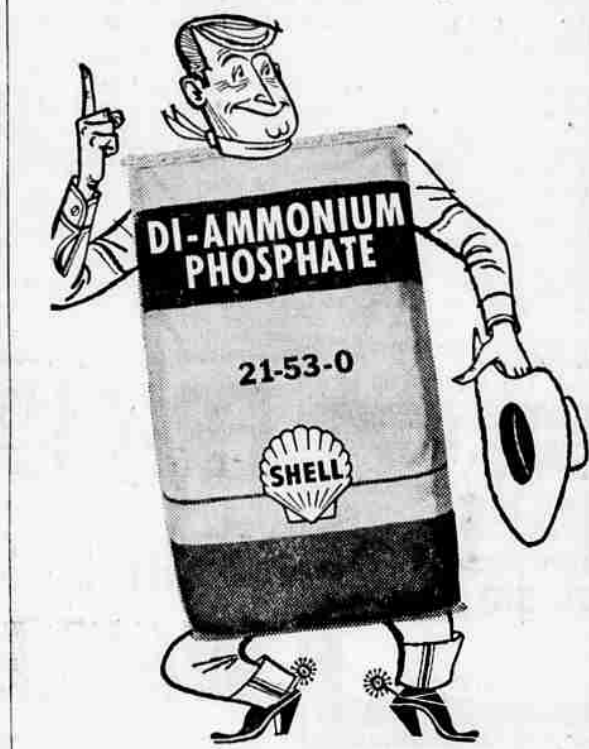
"It would be tracked by radio and radar. There would be no mistake—hit or miss," Duncan said.

Buddhist Nuns Fight With Mob

TAIPEI, Formosa (AP)—Twenty embattled Buddhist nuns wielded broomsticks against more than 30 mobsters who invaded the Blue Cloud temple yesterday.

The Great China Evening News said the outnumbered defenders were getting the worst of it when police came to the rescue. Nine nuns were injured and one was reported missing. Police arrested two of the invaders.

The paper said the invasion resulted from a dispute over land belonging to the temple.



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Toy Fair Has Wide Variety

NEW YORK (AP)—All manner of toys and other playthings—from inexpensive plastic gimmicks to a \$3,000 mink doll carriage—"for the little miss who has everything"—are on display today at the 55th American Toy Fair.

Every room on 44 floors of two hotels will display toys. In addition, they will be shown in hundreds of rooms of two buildings where many toy makers maintain permanent showrooms.

About 16,000 U.S. and foreign toy buyers are expected to visit the show, which is not open to the public. It is sponsored by the Toy Manufacturers of the U.S.A., Inc.

NIXON BEATS YANKEES

BOSTON (AP)—Few pitchers boast of an edge over the New York Yankees. The Boston Red Sox have one in Willard Nixon, veteran southpaw. He has beaten the Yankees 12 times while losing nine games in 12 seasons. On the other hand, Nixon has lost 11 of 16 decisions to Washington and has beaten Baltimore but once in eight decisions.

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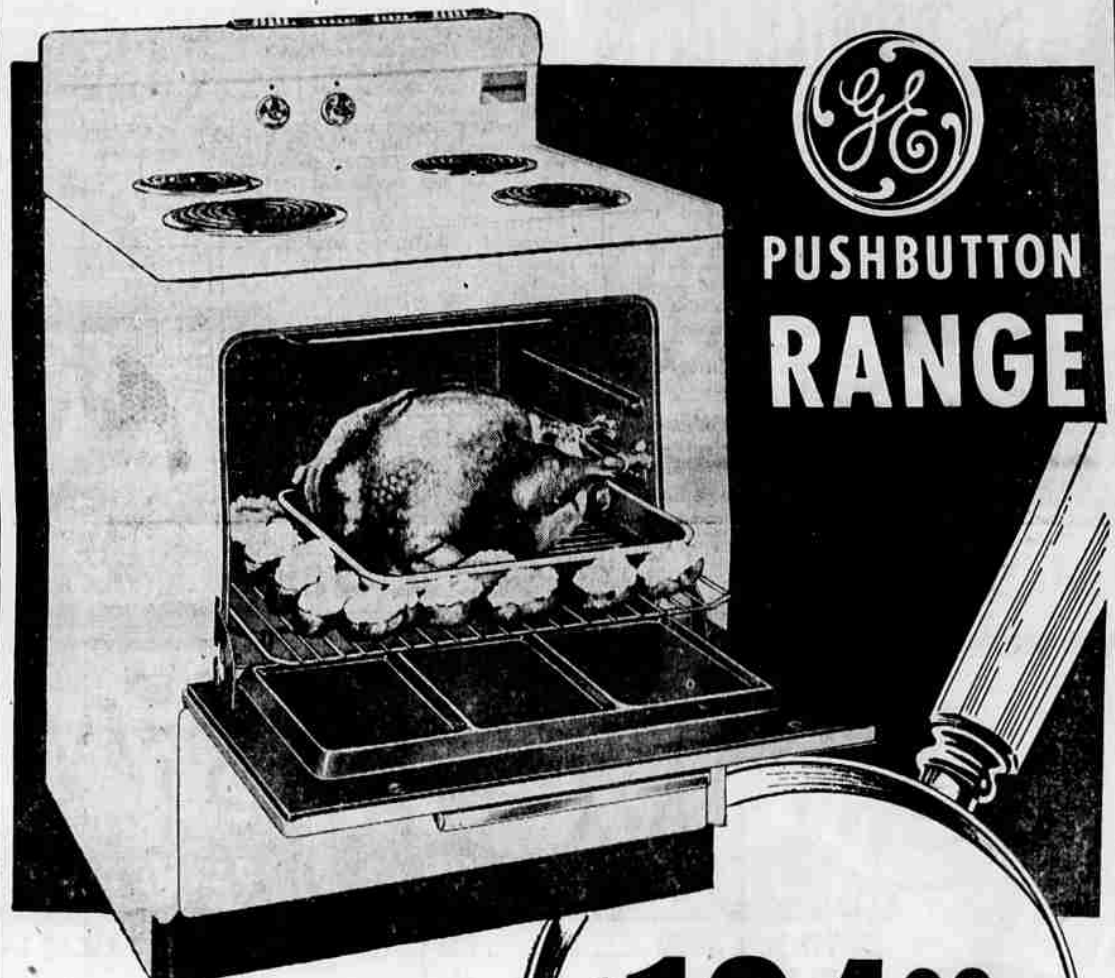
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