

Sacred Heart Offers Full Music Program



TOM CRONON is one of Sacred Heart Academy's solo pianists. He is shown here with Sister Cecelia Frances, one of four music instructors at SHA. The academy offers specialized private training in string instruments, vocal music and piano to its students as well as youngsters from public schools, aside from its regular music program.



MADRIGAL VOCAL ENSEMBLE at Sacred Heart Academy tackles everything from popular songs to classics — often at public functions. Singers are, from left, Kathy Wood, Dorothy Snyder, Michelle McNoise, Rose Waters, Rosemary Granos, Rosalie Bartell, Mary Ann Knight, Judy Korsen, Marchia Mickelsen, Marlou Castel and Janet Borgialli. Accompanist is Peggy Matson. One of the academy's four music instructors, Sister M. Faustina, is shown with the group.



CECELIAN STRING ENSEMBLE at Sacred Heart Academy includes these SHA high school students and four more from public schools who were attending classes elsewhere when the picture was taken. These pictured are, from left, Kathy Cronon, Judy Korsen, Rose Waters, violins; Rosalie Bartell, cello, and Pat Korsen, viola. The academy accommodates about 100 private students, many from public schools. The boy is unidentified.



By **PRESTON MCGRAW**
By United Press International

One of the real bargains in high fidelity equipment now is a National Criterion tuner, which isn't being made any longer.

A Criterion can frequently be picked up for less than \$50. It has AM and FM channels that operate independently, so that it will receive stereo broadcasts using AM and FM transmitters.

The tuner was one of three components with which the National Company, Inc., tried to crash into the high fidelity market. National's reputation among amateur radio operators was and is high.

Its HRO-60 shortwave receiver with plug-in coils was a classic. So was the Criterion among high fidelity tuners, although National stopped making it after two years.

National made a tuner, an amplifier and a pre-amplifier control unit. The tuner and amplifier had a recess in their fronts into which the pre-amplifier fitted. So that a high fidelity rig could be controlled from either tuner or amplifier.

For some reason, the components gave a lot of trouble. Perhaps it was printed circuitry. Perhaps it was an over-supply of assorted "bugs." The popularity of the components may have been hurt by design.

At one point, National replaced equipment that gave trouble with completely new equipment. But nothing seemed to help and National abandoned high fidelity component making.

As far as the amplifier and pre-amplifier went, it probably was

just as well. But owners of the tuners have gotten rid of them in many cases to their regret.

There are tuners on the market now that are better than the Criterion, but none at the price at which second-hand Criteria can be picked up.

The Criterion was and is a "hot" tuner. Many present day tuners compare poorly with it in sensitivity on the FM band. AM sensitivity is a poor point of comparison in tuners, but the problem with the Criterion was getting just enough antenna on it to hear the local stations and not enough to pick up out-of-town stations on the same frequency.

The Criterion had a squelch circuit to cut out white noise between FM stations and the circuit was good enough so that it did not need automatic frequency control. There were 14 tubes in it.

There were controls to reduce or increase volume on the tuner, so that if it were being used with another make of pre-amplifier and amplifier, it wasn't necessary to use the pre-amplifier to cut down or raise the volume.

There were two things the Criterion could have used. One was a meter or "magic eye" tube to indicate when it was tuned in the center of an FM signal.

Another was a circuit to narrow the width of the AM signal it received so it could be used to hear out-of-town FM stations, which most tuner owners want to do occasionally.

A Criterion in good operating shape is a great buy. It is a pity National doesn't resurrect the Criterion and put it on the market again.



UGLIEST GUN IN THE WEST—This would throw a quick chill into any opponent. The cold-eyed monk crashed the act in Hollywood during filming of a "Rawhide" TV episode.

AWKWARD AFOOT

Bats move almost exclusively by flying as they are very clumsy on the ground. Their wings get in their way and their knees bend backward.

TURKISH TROY

The ancient city of Troy was located in what now is Turkey. Remains of the city are part of a vast mound called Hisarlik, close to the Dardanelles.