Newspapers

FRIDAY EVENING, NOVEMBER 10, 1961

## **UA May Have Secret** To Cheap Desalting

The evaporator is a foot-square sheet metal duct running the length of the bay.
THE HOT WATER enters
the evaporator to a depth of
6 inches. A fan at one end
blows air over the water.
This fresh air provides a
space into which the molecules of water may jump.
This is a much more efficent way of using up the
energy which has come into
the water from the sun than
the conventional solar still in the conventional solar still in ing tested.

which the water simply dis"So far, the system is workwhich the water simply dis-tills on a glass tent and drains off.

drains off.

At the other end of the evaporator, the air now full of vapor passes into the condenser and the salt water goes in the bay to be used again.

The condenser is a 50-foot long duct 814 inches source.

The condenser works, in much the same way as dew is deposited on the ground at

right.
Entering the chamber at perhaps 160 degrees, the air is cooled in the condenser to will be condenser to will be condenser to will be condenser to will be condensed for an instrument



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In meteorology but is now a full-time member of the institute staff.

The solar still now being tested has a concrete bay to heat the water 150 feet long and 9 feet 8 inches wide.

The layer of plastic on top traps the heat that comes into the water from the sun. And the water from the sun. And the water may enter the evaporator at 160 degree Fahrenheit.

The evaporator is a foot-the water metal duct runding sheet metal duct runding sheet metal duct runding water would be heasted metal duct runding water would be heasted metal sheet water than the winter because the water metal duct runding water would be heasted metal water would be a water water would be a water would be a water would be a water would be

Much more water would be produced in the summer than in the winter because the water would be heated much hotter and would be more inclined to evaporate. would be more in a much mer workshop in meteorology at the University of Chicago, one of the main problems is to use the energy of the sun as efficiently as possible.

Hodges estimates the of his plane

of his plant at roughly 25 cents a square foot as com-pared with perhaps \$2 in more conventional systems now be-

ing according to the theoret-ical estimates and we have

ical estimates and we have run into no serious problems," Hodges said.

He has, of course, had to contend with the bugs that develop in any new device. FINS WERE PLACED in the condenser to make the six waper bounce around more

long duct 8½ inches square.

It is placed in water cooled by a refrigeration plant to about 60 degrees to simulate sea water which would be taken with the commercial plant.

Accommercial plant.

tute staff on an instrument to measure the water vapor coming out of the ground. THE SYSTEM, in this case,

used the principle of moving air to pick up the water mole-

"I WAS NO BOY scientist," P

In addition to Grace, who is now studying for a degree in meteorology, two under-graduates are working on the project—Bruce Crawfold and Charles Davis.

## Information Unit Further Centralized

the condenser to make the air vapor bounce around more and therefore cool faster. There was a problem of air under the plastic cover in the bay which Walter Grace, an engineer, now working with Hodges, solved.

And Hodges plans to use a stronger blower to produce a faster stream of air in the evaporator — and therefore more water.

Hodges got his idea last spring while working with Dr. William Sellers of the institute staff on an instrument to measure the water vapor coming out of the ground.

THE SYSTEM, in this case, used the principle of moving with Dr. William Sellers of the institute staff on an instrument to measure the water vapor coming out of the ground.

THE SYSTEM, in this case, was taken this week toward centralization of four community or parizations in the Greater tucson Information Center at 420 W. Congress St.

The Convention Bureau is being transferred to the Sun-shine Climate Club, which cules.

Then he became interested will be known as the Sunin salt water conversion after attending a lecture on desert survival.

"I wondered how I would get fresh water if I were on Miracle Mile until constructor a raft at sea," Hodges said, to so he built a small model which successfully distilled construction and fresh water and then experimented with the rooftop model which was 20 feet long, according to schedule which Again the results were very successful.

The young scientist was

Again the results were very calls for completion by early successful.

The young scientist was born in Texas but his family for the building which is bemoved to Phoenix when he ing built by the W. F. Coneireached the third grade in ly Construction Co.