Monday launch for space observatory

Invisible X-ray universe will be seen

WASHINGTON — The space agency plans to launch an orbiting observatory Monday to give astronomers their best view yet of puzzling celestial objects — such as white dwarfs, neutron stars and maybe even black holes — which emit X-rays.

The invisible universe, as viewed by X-ray detectors, is a bizarre and violent place and program scientist Albert G. Opp said the spacecraft will use an automated X-ray tele-

"You'll be able to see in X-rays the motions of gases and the presence of the matter that's creating the X-rays," Opp said in an interview Wednesday. "Since you can't see these in visible light, you can only speculate as to what's creating

the X-rays."
The \$87 million satellite, called HEAO 2 because it is the second of three High Energy Astronomical

by Adolf Hitler's Nazi regime in

1938. It became known as Crystal Night because of the piles of broken

scope to enable astronomers to "see Observatories, will radio back data exactly where the action is taking scientists will reconstruct into pictures showing the size, structure and detail of objects in the far

reaches of the universe.

HEAO 2 is to be launched from
Cape Canaveral, Fla., into an orbit
ranging from 280 to 335 miles high. That vantage point will place the satellite well above the Earth's atmosphere which keeps X-rays from

reaching ground observatories.

The first HEAO was launched 15 months ago on a sky-mapping mis-

1945, the Nazis killed about 6 mil-

"The truth is that many Germans knew of the crimes and disapproved

them, but that many others knew nothing or almost nothing about

them," Schmidt said. "The truth is that nevertheless all of this took

place before the eyes of a large number of German fellow citizens

and that another large number had

The truth is that a majority of the

eople remained timidly silent, and that the churches also remained

timidly silent although synagogue and church serve the same God and

are rooted in the spirit of the same

direct knowledge of these events.

m against Germany's Jews the allies defeated Germany in

1,500 celestial sources of X-rays five times the number previously

HEAO 2's job is to zero in on particularly interesting X-ray sources.

Among its targets will be compact celestial objects ranging from stars known as white dwarfs to theoretical

A white dwarf is what is left over when a star the size of our sun runs out of nuclear fuel and collapses catastrophically into an object no big-ger than Earth. They are so dense that a spoonful of matter would

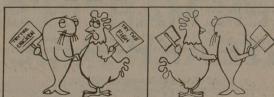
Medium-sized stars crash down to neutron-star density — a billion tons per cubic inch.

Heavyweight stars are believed to shrink even more, to material so densely packed that the resulting immense gravity prevents even light waves from escaping. These are what scientists call black holes.



The Athletic Attic is

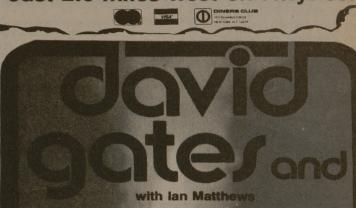
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Germans have learned their lesson, official says

United Press International
COLOGNE, West Germany —
Chancellor Helmut Schmidt, speak-

ing on the 40th anniversary of the first Nazi pogrom, said Thursday he believes the Germans have learned the lesson of their history and asked the Jews for forgiveness.

"It is not for us to call on the Jews of the world for forgiveness," Schmidt told an assembly in Cologne's Great Synagogue. "But we may ask for forgiveness.

Schmidt spoke at a memorial

glass littering Germany's main business streets after Nazi thugs smashed the windows of about 7,500 Jewish-owned shops.

During Crystal Night, the Nazis killed 91 Jews, arrested another 30,000 Jews, most of whom were sent to concentration camps, and

The provision in the law that you can pay resident tuition if you work half-time in a position relating to your degree program is an exception to the residency requirements; it doesn't make you a Texas resident.

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not replace the personal advice of an attorney. Questions for this column can be addressed to the students' legal advisers in Room 306, YMCA Building.

destroyed 267 synagogues. That pogrom was the first step

service on the 40th anniversary of the Crystal Night pogrom — the eliminate European Jewry. Before

Living with the law

Schmidt said the Nazis were able to seize power and carry out their criminal scheme with the acquies-cence of most Germans because I've moved here from out of state, and I pay the higher non-resident tuition. I'm not in the military now, don't want to join the Texas Guard, don't hold a competitive scholarship, and I don't want to get married to a Texas resident or stay out of school for a year to gain residency. If I work in my department for 20 hours a week they tell preceding generations had failed to prepare the ground for a democratic system guaranteeing the freedom and dignity of the individual. me I can pay resident tuition. Can I do that a year, quit, and then be

The Nazi crime began with vio-lence against books, the shouting down of anyone with another opinion, contempt for fellow men and the rejection of the democratic sys-

tem, Schmidt said.
"Murder was the logical consequence," the chancellor declared.



Spanish booty returned to discoverer

fore your lower tuition ends.

United Press International TALLAHASSEE, Fla.- State arhives officials Thursday were ready to comply with a court order to return \$2.3 million in Spanish treasure to the company that found it.

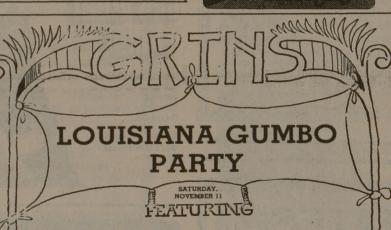
Archives officials finished sealing

hundreds of silver coins and artifacts Wednesday to meet the order issued 10 days ago by the Fifth U.S. Circuit Court of Appeals in New Or-leans, said Robert J. Vossler, an attomey representing the secretary of

The treasure was hauled from the vreck of the Spanish galleon Nuestra de Senora Atocha by Treasure Salvors, Inc., a Key Westbased firm that discovered the shipwreck 45 miles off the Marquesas Keys after years of searching.
The Nuestra de Senora Atocha

went down 356 years ago, in 1622. The state laid claim to 25 percent of the treasure because of a contract signed by the treasure company's president, Mel Fisher.

But Fisher has testified in court that he signed the contract because the state threatened to arrest him if



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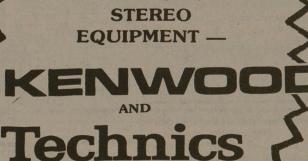
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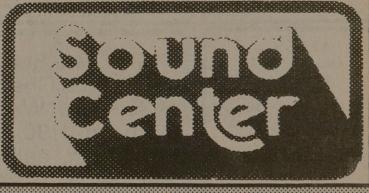
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