## Student marketeers heading into space

United Press International WASHINGTON — Three young men who looked into private investment in space while they were students at the Harvard Business School two years ago have formed a company to develop a commercial upper stage rocket for the space shuttle.

Their Orbital Systems

Corp. signed a cooperative agreement with the National Aeronautics and Space Admi-

nistration April 18. NASA will provide technical monitoring and advice and the corporation will proceed with the rocket development, expected to cost about \$30 million, at no cost to taxpayers.

A similar endeavor led to the manufacture of a smaller rocket stage that successfully pushed two communications satellites into orbit last November after being carried into space by the shuttle ColBut the maker of those rockets is the McDonnell Douglas Corp., an aerospace giant that has built rockets and spacecraft since the

The Orbital Systems Corp. has eight people on the payroll. It was formed last year by David W. Thompson, 29, Scott L. Webster, 30, and Bruce W. Ferguson, 28. Their plan, Webster said, is

to serve as "fund-raisers and marketeers" for commercial ventures in space operations while contracting out the actual systems development work to aerospace companies with proven technical know-

Orbital Systems Corp. signed a preliminary agree-ment in January with the Mar-tin Marietta Corp. Martin is to design and build the stages and Orbital Systems will finance and direct their development and sell them for

between \$16 million and \$20 million each.

The rockets are designed to propel relatively large satel-lites, weighing between 2,800 pounds to 6,800 pounds at

their final station, from the low orbit where they are left by space shuttles to an elliptical orbit reaching 22,300 miles

Smaller rockets in the satellites themselves will then be fired to propel them into the circular 22,300-mile-high

path where a satellite's orbital speed matches Earth's rotation and the spacecraft re-mains over one point.

Thompson said his rocket stage, called the transfer orbit stage, will fill a gap in the ability of NASA's space transportation system to push large satellites toward the stationary

### Corpus deepening channel

## Project may revive port

this spring to deepen its ship channel — a project long de-layed by environmental objec-

one of the busiest ports in the country.

The port is already second only to Houston among Texas ports and will be the deepest anywhere on the Gulf coast when the dredging project is completed in about six years.

tions — in the hope of becoming

The deepening project was opposed by environmentalists and commercial fishermen who did not want the gooey dredge material dumped in the warm, shallow waters of Nueces Bay, a prime spawning ground for

The U.S. Army Corps of Engineers finally abandoned that plan in December and agreed to put the dredge on land at the

United Press International CORPUS CHRISTI — The Port of Corpus Christi will begin this spring to deepen its ship most turning basin, said Port Di-rector Harry Plomarity.

That will make way for the largest oil tankers at a port where oil already accounts for 80 percent of the imports, he

The dredging is a key in a larger plan to attract more business at the port, Plomarity said.

With oil imports down 44 percent, tonnage at the port has dropped from a high of 61 million tons in 1978 to 43 million in

"When we saw the imports declining, the port commissioners decided to take a look at our marketing strategy," Plomarity

Now they are trying to diversify the cargo brought the port by attracting more dry bulk and grain. A public grain elevator

that exploded last year should mote coastal city since det be back in operation by July, he tion, he said.

The new kinds of cargo would San Antonio Mayor He require more longshoremen, neros on a plan to use providing jobs in Corpus Christi as a port of entry Christi, Plomarity said. About Antonio cargo. San A 38 percent of the city's jobs are could then serve as a different could be served as a d already related to the port, ranking in importance with the militand northern Mexico.

ary and tourism, he said. Plomarity is hoping to appeal to shippers who are tired of congestion at the Port of Houston. The port commissioners can compete with lower wharfage and docking charges, but they of the engineering and are fighting railroad rates that division at the Galvest and docking charges, but they have become higher to the re- Corps of Engineers.

Plomarity is als

around the 2,000-acres nated as a dump a

## Surviving Liberty ship serves as war memorial

United Press International
SAN FRANCISCO — The last of the Liberty ships that formed America's "Bridge to Victory" in World War II has been turned into a national serious with the control of the ship's about 95 percent restored," says John Paul, a retired merchant marine captain who works aboard the O'Brien as a boastswain.

22,000 planes and millions of rifles.

"Some of these ships were built in five days," said Harry Morgan, the O'Brien's chief. been turned into a national memorial by a crew of volunteers, many of them veteran seaman who dodged torpedoes and memorial by a crew of volunteers, many of them veteran seaman who dodged torpedoes and memorial by a crew of volunteers, many of them veteran seaman who dodged torpedoes and memorial by a crew of volunteers, many of them veteran seaman who dodged torpedoes and memorial by a crew of volunteers, many of them veteran seaman who dodged torpedoes and memorial by a crew of volunteers, many of them veteran seaman who dodged torpedoes and memorial by a crew of volunteers, many of them veteran seaman who dodged torpedoes and memorial by a crew of volunteers, many of them veteran seaman who dodged torpedoes and memorial by a crew of volunteers, many of them veteran seaman who dodged torpedoes and memorial by a crew of volunteers, many of them veteran seaman who dodged torpedoes and memorial by a crew of volunteers, many of them veteran seaman who dodged torpedoes and memorial by a crew of volunteers, many of them veteran seaman who dodged torpedoes and memorial by a crew of volunteers. bombs on harrowing wartime

The SS Jeremiah O Brien is the last unaltered example of the 2,751 cargo ships built between 1941 and 1945 in 18 U.S

It's hard to know where to begin in telling the story of the squat ships dubbed "ugly duck-" by President Franklin D.

The veteran of the Normandy invasion was pulled out of mothballs after 33 years in the reserve fleet. Following extensive work, the 441-foot vessel sailed out of nearby Vallejo under its own power in 1979.
Today the O'Brien is open to

visitors and even takes cruises on San Francisco Bay, including a big one in May when the ship sails out of the Golden Gate for

survived the U-boat sinking of the Liberty ship Baton Rouge on

lings" by President Franklin D. Roosevelt when he was shown the first blueprints.

But if the story had to be summed up in one word it would be Murmansk," the Soviet destination for so many ships and men that never came back.

which 97 cargo ships went to the around. bottom. The convoys which got ceremonies honoring those who through delivered vital armaincluding more than

The ships' crews consisted of merchant marine sailors and Navy armed guard who manned the anti-aircraft guns and threeand five-inch guns at the bow and stern. At battle stations, civilian sailors served as ammunition handlers, passing shells to the Navymen.

Men who sailed the Liberty ships in the war often visit the

Paul says some veterans are The voyage was a gauntlet of surprised when they learn submarine and air attacks in there's still a Liberty ship

"Several guys who sailed on Liberties found us just by chance," he said.

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