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Scientist says men helpful space tool

SPACE CENTER — In to-day's science text the modern Space Center the modern Space text the modern Space text the modern Space Space text the modern Space Space text the modern Space grandfathers wear, holding above their heads the Explorer 1 satellite, America's first venture into space.

Even though his plasma diagnostics package was a highly technical piece of equipment,

The men are Drs. James Van Allen, Wernher von Braun and William Pickering, collectively recognized as the fathers of the U.S. space program. The 60-pound Explorer was the first the 99-ton space shuttle Col-

when that first small satellite
was launched, so too was an argument whether men would ever really be needed in space—
whether machines, each more elaborate than the last, would replace the need to put breathing technicians into a risky environ
Shawhan is the first to acknowwas due to Fullerton's expert use of the payload bay arm to maneuver the package.

"We could have designed a machine that would have moved to space the way man could.

"And even if we could, why bother?" he asked. "Man is a cheap computer. We'd have tremendous problems making computers intelligent enough to replace man — and even then we couldn't be sure it would perform the sure in the could are the way man could.

"And even if we could, why bother?" he asked. "Man is a cheap computer. We'd have tremendous problems making computers intelligent enough to replace man — and even then we couldn't be sure it would perform the package.

completed and astronauts Jack tion of man's role in the future of space exploration is rarely

youngster sees an aging picture

three men in the kind of suits

three men in the kind of suits

phere around the ship as it flew phere around the ship as it flew

"There will always be a need for the adaptive supported by another scientist, computer in space ____ Dr. Roger Williamson, who maintains it would be impossible to the space of the space step on a road that now leads to that's man," said Dr. to design a machine sophisti-Stanley Shawhan.

machine that would have moved form as well as man. And the ment. (the calibrators) through the cost of that kind of machine beam in steps. But with the would be incredible. of the space truck successfully reasoning computer (Fullerton) "Man is cheaper and more reasoning computer (Fullerton) "Man is cheaper and more we can move it back and forth." "daptable. Man is acutally the Lousma and Gordon Fullerton We can ask him to do it again cheapest form of machine we safely on the ground, the ques- without reprogramming a com- have puter. We can do it in real time.

Although Williamson was still
We don't have to wait," he said. in school when the famous pic-

Shawhan, a University of spacecraft liveable for man technology and money that would not be needed for a robot-

run program.
"But without man we can' recover from any error or misjudgment in the program," Shawhan said. "We either have to be smart as hell (in designing perfect machines) or have a mar

cated enough to perform in space the way man could.

Shawhan said, however, the ture of Pickering, Van Allen and "There will always be a need for the adaptive computer in space — that's man," says Dr. Stanley Shawhan.

Shawhan said, however, the ture of rickering, variable and argument over man's role in Von Braun was taken, he points space is continuing. He notes to that early spirit of space that a great deal of technology, adventure as the key to success and money, is needed to make a of manned flights today.

usually affects people in their monoclonal antibodies detect cancer of the colon, breast, pan-Combined with radioactive creas and ovary, Baldwin said. But he said his researchers iodine, the antibodies "light up"

DAYTONA BEACH, Fla. Cancer research must some-times seem like the old myth, where a king of Corinth was condemned to push a rock up a hill through eternity.

Every time the luckless chap neared the top, the rock fell back

But the American Cancer Society said this is not so. Some of the most resistant forms of cancer 30 years ago are considered curable today.

But the problem still exists. The ACS estimates 430,000 Americans will die of cancer during 1982. Of every five deaths in the United States, one

A key area of interest in many laboratories are proteins called monoclonal antibodies. They are made by fusing antibody-producing cells from mice immunized with human tumor

They then can be program-med genetically to attack cancer They can, theoretically head straight for cancer cells and thereby identify them. It is hoped they can ferry drugs or the highly-touted interferon to wipe out tumors and other abnormal growths.

Dr. Robert Baldwin, director of the Cancer Research Campaign Laboratories in England and professor of tumor biology at the University of Nottingham, recently reported on his use of monoclonal antibodies for cancer detection purposes. Baldwin, in collaboration with

Dr. Vera Byers of the University of California at San Francisco, produced monoclonal anti-bodies that react with human osteogenic sarcoma, a highly malignant bone tumor that

sarcomas on a camera. The Nottingham group now is conducting tests to see if

don't see any possibility of using monoclonal antibodies for cancer treatment yet.

Cancer research moves use the antibodies to fer cancer drugs to tumors entists are sure the an seek out offshoots of n tumors as well as the growth, he said.

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BYU president speaks out

Features such as honesty, a dress code and prohibition on alcohol are highlights of the Brigham Young University polithe University president

Holland charges the missing ingredient in higher education in America today is values' education and says if that were not so, white collar crime wouldn't be an \$8 billion a year industry.

Holland, president of Brigham Young University, Provo, Utah, earned his doctor of philosophy degree at Yale University in New Haven, Conn., an Ivy League school. He said his charges are aimed at all types of disciplines and schools public, private, Ivy, community, two-year, fouryear, medical. law, divinity, engineering.

A lot of the perpetrators of today's white collar crimes, came through our higher education

system," he said 'That's why I say education is missing the mark.'

Brigham Young is the nation's largest independent coed university — 26,000 students. It is affiliated with the Church of Jesus Christ of the Latter-Day contract basis. Holland said it is aints, usually known as the not considerable. Mormon church.

The real crisis in higher education is that tens of thousands of people go through the schools without being impressed with the fact that honesty is the best policy — corny as it sounds, Holland said.

"It would be great if college presidents could agree that they must witness to students a belief in honesty is the best policy, Holland said.

"I think a good job descrip-tion for a president of a universi-ty would declare him also a professor of moral philosophy. There is nothing radical about teaching values, Holland Holland said.

"Plato put it in a few words education worth the name'," he

Holland said he was devas- sored. And at Princeton, it's 45 tated to see a report on 131 graduate business students who had ______ been asked if they expected to face a challenging ethical situation in their careers. All the student said that they would be faced with such a decision and that they will compromise if it helps their career or business.

Holland recited a litany of recent "compromises" he said led to scandals in research, athletics, Medicare, journalism frauds - an epidemic of cheating and a retreat from honesty in which no discipline or lifestyle seems immune.

Holland also is a board member of the American Association of Presidents of Independent Colleges and Universities.

"Education must assume some responsibility for what has been going wrong," he said. At BYU, Holland said he

assumes the responsibility to take a stand and witness values that make higher education great — and that made America

The only federal money going into the BYU coffers is from fees for work done on a

The reason the school does not seek federal funding, per se, Holland says, is that the university does not want to be thwarted in its institutional policies - including segregation of sexes in housing — as a result of federal strings or regulations tied to re-

ceipt of federal money.
"We have a strict moral code
at Brigham Young University," Holland said.

The independence Brigham Young University maintains at the cost of turning down any possibility of massive infusions of federal money comes at a considerable loss of possible added

"It's a staggering amount,"

"I saw some figures recently -'Education in virtue is the only that about 60 cents of every dollar at Massachusetts Institute of Technology is federally spon-



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