

Mars trip design

(Continued from page 1) sources," the associate professor pointed out. communications, navigation, air traffic control, meteorology and astronomy.

The shuttle for moving men, equipment and supplies to the station and back was designed to carry at least a crew of two, six passengers and 50,000 pounds cargo.

Station design incorporated 16 self-contained and sustaining capsules 48 feet long and 10 feet in diameter attached at one end to a 115-foot long central tunnel.

Design of the earth-to-Mars command ship was centered around two Phoebus II nuclear rocket engines capable of 500,000 pounds thrust each. The 176-foot long craft includes—from nose to rocket nozzles—a command module, spoked-wheel-type crew quarters, Mars landers storage, five 120-foot long fuel containers and the shielded engines.

"The mother ship is the primary vehicle on this mission in that it must carry the most life the longest time to the farthest distance," the report states. Thus all environmental control, life support and power systems "must be as perfect as possible with at least triple redundancy."

Two Mars landers carrying four men and associated equipment each were designed. These would descend from the mother ship's 100-mile high Mars parking orbit to separate points on the Martian surface.

"This method will give more information than one big lander and insure that all would not be lost if something happened to one of the landers," the students stated.

The Mars lander was designed along lines of the Apollo lunar lander, except the 38-foot tall vehicle is streamlined to contend with Mars' thin atmosphere. The landing frame and descent engine serve as the launch pad for the lander's return to the mother ship. Surface living quarters are incorporated in the stage to be left behind.

A command ship trajectory was selected that would carry it beyond the orbit of Mars, enabling collection of data on the asteroids that orbit between Mars and Jupiter.

"Another reason for this trajectory," the report states, "is that by proper selection of trans-earth insertion data, the ship would pass near Venus for additional investigations on the return trip."



Farmer's hopes can depend on outcome of this fight. Aphid lion, right, closing in for the kill on cottonboll worm

Insects help farmers

(Continued from page 1) Chel W. Lew worked a year with 50 different shell systems, materials and means of flowing them together with the filler liquid to form the tiny eggs.

Batches of the synthetic eggs are being experimented with at the laboratory and researchers are now working with the seventh generation of aphid lions reared on them, House said.

Rearing the larvae on artificial eggs would mean a cost reduction to \$1 an acre including the distribution cost.

House said that in the future an artificial egg will possibly be used to keep a large number of aphid lions in the fields after the number of bollworms have decreased due to their elimination by the aphid lions as well as other natural causes.

He explained that both insects have a life cycle with the aphid lions closely following that of the bollworms. When the number of bollworms decreases the eggs will remain at a peak to be ready when the number of bollworms rises again.

Plans are being drawn up for the design and operation of a pilot plant for the mechanized production of green lacewing larvae, and the working out of means for insect storage, handling and field distribution.

The scientists hope to prove the system good enough for commercial agriculture use by applying from 50,000 to 100,000 larvae

Traffic engineers attend workshop

Approximately 125 traffic engineers from five states will be on the campus Tuesday through Thursday for a transportation technology short course.

The three-day traffic engineering workshop is designed to assist the traffic engineer in his efforts to provide the safest, most economical and most functional street system possible, noted Milton L. Radke, head of the Community Services Department of the Texas Transportation Institute.

Co-sponsors are TTI and the Civil Engineering Department in cooperation with the Texas Section, Institute of Traffic Engineers.

Speakers will be teachers and researchers who are involved in the development of the new concepts which will be presented, Radke said.

Emphasis during the program will be on the latest transportation concepts and technology as applied to specific traffic engineering problems, he added. All classes are scheduled in the Memorial Student Center.

Workshop subjects include urban transportation planning, lighting, communications with drivers, operation of freeway and street networks, traffic design concepts and panel discussions.

per acre, at bollworm egg-laying time, in a demonstration on a large commercial farm.

Dr. Richard L. Ridgway, head of the research laboratory, said "chemical insecticides can and will continue to be important tools in the battle against insects," but work should be done to perfect alternate methods.

"The current cost for the development of a typical agricultural pesticide is about \$5 million, but we have so far been able to spend only a small fraction of that amount on the technique of releasing green lacewings," Dr. Ridgway said.

Biological pest control, he emphasized, is a more sophisticated technique than that of conventional pesticides and requires the aid of modern technology.

"I am confident that with appropriate resources, we could develop this and many biological techniques that will give highly effective pest control and will compete favorably with conventional insecticides," Dr. Ridgway said.

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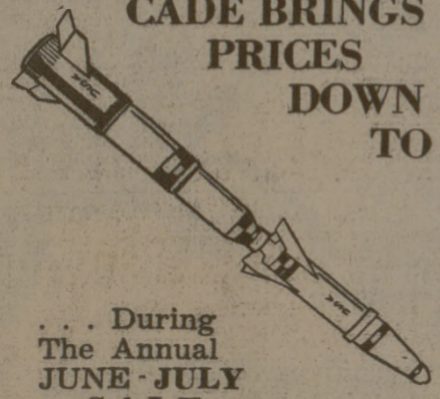
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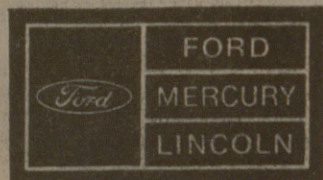
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Pat Little

The student unrest and violence which started in Berkeley, California in 1964 as a "free speech" movement is predicted to go into a new and even more dangerous phase following the Kent State incident.

I am not an authority on who was right or who was wrong at Kent State. I'm not a National Guardsman who has to live with the fact that he killed a young student, nor am I a father who has to bury his slain child.

But I don't think violence is the answer to anything.

The rights of free speech, free press, and the right of assembly are basic and guaranteed freedoms in this country and student radicals should use them instead of violence. When a march, demonstration, or rally turns into a destructive mob those people are in the wrong and other people should hold them responsible.

Several students and faculty members at Kent State wrote in the Middle of the Country, a short book on what they felt were the events of the "massacre" at Kent State.

Outlet for anger

Except for one article by a professor who was against the use of violence, the book was mainly an outlet for the student's anger and a means of making a stab at President Nixon and the "establishment."

I don't have the space to discuss the whole book, but there are some parts which I think warrant commenting on.

Bill Warren, who edited the book, wrote mainly on the immorality of having ROTC on campus, along with a professor who wrote that the only thing ROTC does is make "cannon-fodder out of unbeknownst young men."

Major points of attacks

Of course the major points of their attacks concern Cambodia and Vietnam, along with the logical and, in most cases, the illogical reasons why we shouldn't be there.

Yet, most of the people who are questioned concerning the student unrest say they feel the students have a right to state their opinion about the war and the government if they wouldn't resort to violence. I would venture to say this is the opinion of the majority of the people in the United States, in contrast to the

professor who claims in the book in the Middle of the Country, that the students who went on a rampage and smashed windows in Kent, Ohio were "keepers of the national conscience."

A student or any other person may have a belief or an opinion which is different from everyone else's. People will listen to them when they discuss their beliefs in a calm and civilized manner, but when they resort to violence the primitive emotions of a person take over and the actions on both sides become irrational.

How to get close contact

"If one desires close contact with the people, one must not underestimate their understanding. One must not everlastingly keep them on leading strings... No organization, no propaganda, however excellent, can alone maintain confidence in the long run. It is not by incitement... and not by threats against the helpless part of the nation, but only by talking things over with people that confidence and devotion can be maintained. People treated as morons, however, have no con-

fidence to give away... It is time to join together in fraternal friendship and respect for all our fellow countrymen, to avoid disturbing the labors of serious men and to silence fanatics."

The above quotation is part of a speech in the book The Rise and Fall of the Third Reich by W. L. Shirer. The speech was made by Franz von Papen in a last ditch effort to stop Hitler from gaining power in Germany. Many parts of this excerpt can be applied to our times.

The Battalion

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