Students get tour of Cape Kennedy

Twenty-eight MIT students have recently returned from a two-day tour of Cape Kennedy, Florida, as guests of the United States Air Force.

The group included seniors and graduate students from several engineering departments who are enrolled in an interdisciplinary course in systems engineering. They are conducting a preliminary design study of a manned expedition to Mars.

Other students in the same class are working on a high-speed surface transportation system between Boston and Washington, D.C.

Coordinating the Mars project is Abraham Katz, the Jerome Clark Hyneman Professor of Aeronautics and Astronautics for 1955, formerly a director of NASA. The student project manager is Brian L. Hollenbeck, a graduate student in Aeronautics and Astronautics.

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Engineers analyze results of space flight simulations

(Continued from Page 2)

Assignment of functions to men or to automatic equipment should take into account the engineering characteristics of each.

"Unfortunately, our knowledge of the engineering characteristics of men is quite limited compared to our knowledge of the engineering characteristics of automatic guidance and control systems," Dr. Young said. Automatic systems, he reported, take almost always initially begin with calculations based on equations and specifications and mathematical models learned from laboratory studies and theory. Equipment capability can be very well predicted. Laboratory supported by NASA.

Knowledge about human control capabilities is less precise and the Man-Vehicle Control Laboratory, which is supported by the Office of Advanced Research and Technology of the National Aeronautics and Space Administration through NASA's Ames Research Center. It was established recently to make detailed studies of how well the human can do.

Comparisons of visual cues and vibraotory cues were among the first studies undertaken in the laboratory.

To measure reaction and control abilities in response to vestibular cues, test subjects—volunteer graduate students from the department—were placed in the cockpit and a light-fight black hood was placed over the canopy. For testing, reaction to visual cues, test subjects sat in a chair in front of and facing the cockpit and used a stick to control the roll movements they could observe but not feel.

Researchers found that at low frequency roll, visual cues were best for affecting differences and vestibular cues were not particularly helpful. At roll frequency increased, however, visual cues became less useful and vestibular cues grew in importance.

Optimists control over the widest frequency range was achieved when the subject is an unshaded cockpit obtained visual and vestibular cues. But by separating the two components, the MIT researchers were able to measure the contribution of each.

The researchers were aware that in the vestibular tests alone, the subject was good enough to qualify for the new two-year on-campus training program.

If you're a sophomore now attending one of the 247 colleges and universities that offer Army Officer training—or you plan to transfer to one of these schools next Fall—you may qualify for this new on-campus training program.

A new Army ROTC program starts this coming Summer for sophomore men who apply prior to May 1—only 3,000 applicants to be accepted.

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This new program—designed especially for college men who have not taken Army ROTC during their first two years—will commence with six weeks of field training this coming Summer, beginning June 14. Then you'll have on-campus training during your junior year... six additional weeks at camp during the following Summer... and more on-campus training during your senior year. Even flight training is offered at some schools.

ROTC training is really a process of learning to organize and direct others—to be a leader. Consider how important this ability can be to you throughout life.

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