

GM executive praises A&M highway technology work

Words of praise for A&M's "outstanding work" in highway technology were included in remarks here on automotive research and development trends by a General Motors executive.

Farno L. Green, executive engineer since 1966 in the manufacturing development staff in GM's technical center at Warren, Mich., addressed more than 200 faculty and staff members. He stressed "emissions and safety" in his illustrated address which empha-

sized research trends for control of automobile pollution and passenger safety.

Green said A&M "is recognized as serving a national need in this age when there is acute interest in continued development of highway technology and knowledge of interactions between the driver, the vehicle and the highway."

"This year," he continued, "General Motors will have spent \$214 million on pollution control. More than 2,000 men and women

will have spent over \$150 million on the automotive emissions problem alone. Other employees are involved in work on which over \$64 million will be spent in 1971 for new plant pollution controls.

"The objectives of an emission control system is to eliminate or reduce the (harmful) emissions by converting them to carbon dioxide, water vapor, and the pure gases such as oxygen and nitrogen."

Green said developments in these areas have led to progress in reducing such emissions. For example, the equipment installed on cars by 1971 has reduced hydrocarbons by more than 80 percent and carbon monoxide by

more than 65 percent. Additional improvements are being made. He said there is "a very challenging set of requirements for final cleanup of exhaust gases to meet the 1975 and 1976 standards." As of right now Green said, there is no system which would be practical for mass produced automobiles that will meet the '76 government requirements for control of automotive emissions. This makes it clear that this area of research and development will continue for the foreseeable future."

Nevertheless, he said GM is "unmistakenly committed to removing the automobile from the pollution problem. However, it

would be unfair to leave this subject without stating a deep concern. There is doubt in many circles about the reasonableness of adding new, yet undeveloped emissions control equipment to cars which will be high cost unless scientific data are found to demonstrate the benefit of removing the last small percentage of undesirable emissions."

He said the safety factor in automobiles is being researched through the use of Experimental Safety Vehicles (ESV). However, such a car "is not intended for production because the cost of manufacture would be prohibitive." Some of the "interesting

features" include removal of pillars at either side of the windshield; side windows fixed in position to reduce the chance of ejection of occupants in rollovers, and interior padding to hold occupants in place during impacts. Also, he said "a number of problems remain to be solved before the air cushion can be considered practical."

In regard to research and development of auto engines, he said: "General Motors has looked into the steam car, the electric car, the turbine engine and the rotary (or Wankel) engine—there are many unresolved problems." He concluded with an emphasis on

GM's research and development efforts to take the car "out of the pollution problem and for making cars safer, more reliable and easier to service."

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At 8:20 p. m.
"LAST SUMMER"

Cassidy to review Corps march-in

The commanding general of the United States' largest Army area, Lt. Gen. Patrick F. Cassidy, will review A&M's Corps of Cadets at the Thanksgiving Day football game.

The Fort Sam Houston-headquartered 5th U. S. Army is composed of 14 states including most of the southern states.

A 34-year Army veteran, General Cassidy will take salutes of A&M's Corps of Cadets units in a 12:20 p.m. march-in to the A&M-Texas football game. Kick-off is at 1:30 p.m.

The three-star Army general will be one of three flag officers on the Kyle Field reviewing stand. Maj. Gen. Charles W. Ryder Jr., 5th Army chief of staff, and Brig. Gen. Joe G. Hanover, commanding general of the 420th Engineer Brigade headquartered in Bryan, will be in the party.

Also involved will be President Jack K. Williams, Commandant of Cadets Col. Thomas R. Parsons and Col. Robert F. Crossland, Air Force ROTC detachment commander, among other TAMU officials.

General Cassidy's distinguished career has included major command and staff tours in the Pentagon, Europe and Korea.

Turkey Trot will be run

The third Turkey Trot will be run Thanksgiving morning at A&M with colorful certificates going to persons who complete the 3.2-mile course.

Open to all interested persons including visitors for the A&M-Texas football game, the trot will begin and end at G. Rollie White Coliseum.

Dr. John M. Chevette, who runs the Turkey Day event for the department, said participants should be in front of White Coliseum at 8 a.m.

Mike Mistovich, KORA president and general manager who broadcasts A&M athletic events, will be honorary starter.

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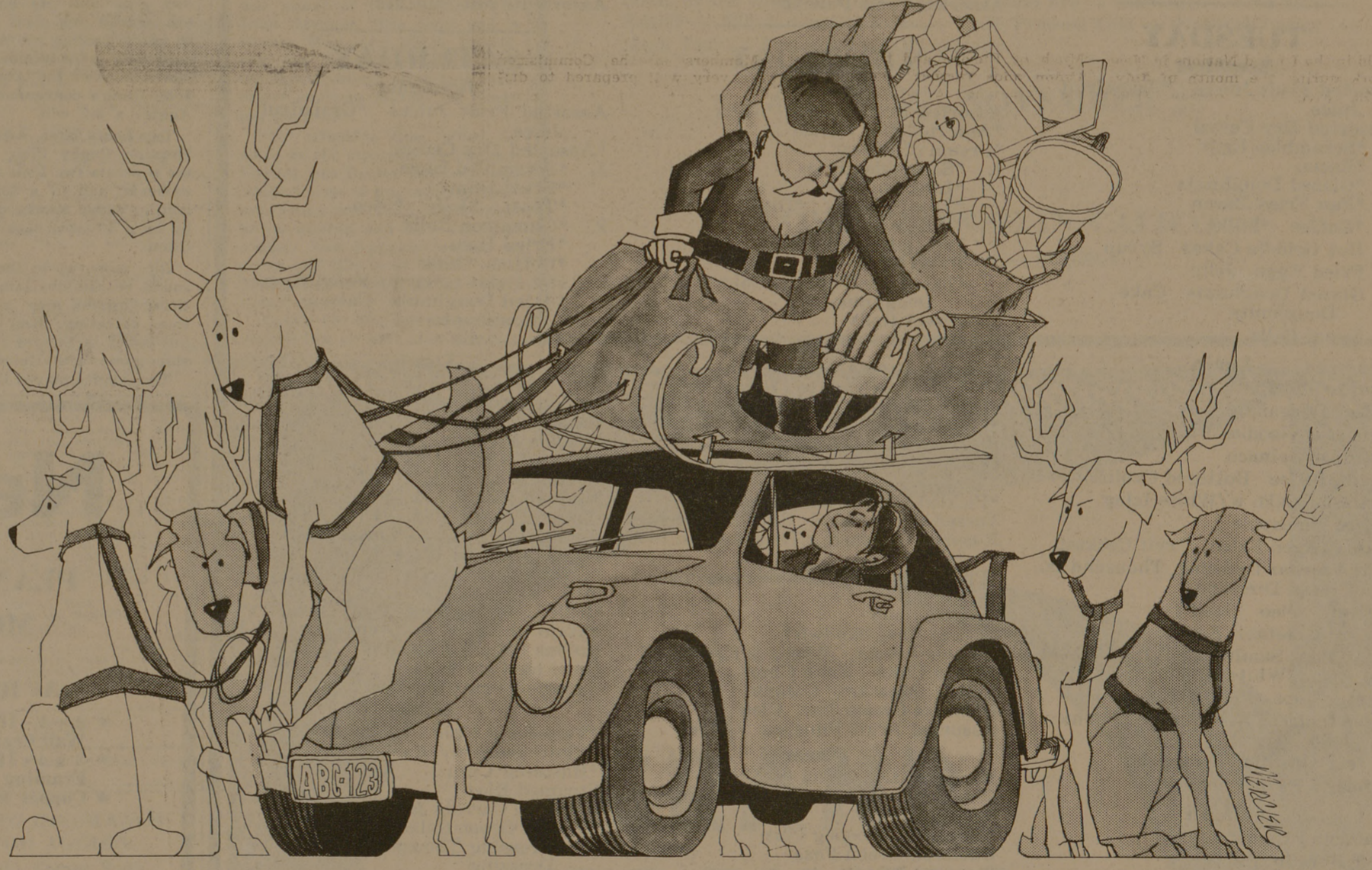
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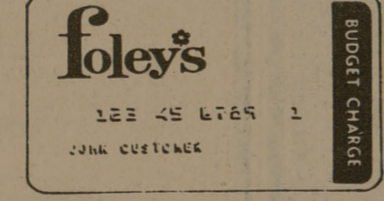
Tuesday, November 30, 1971 — 8:00 p. m.

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