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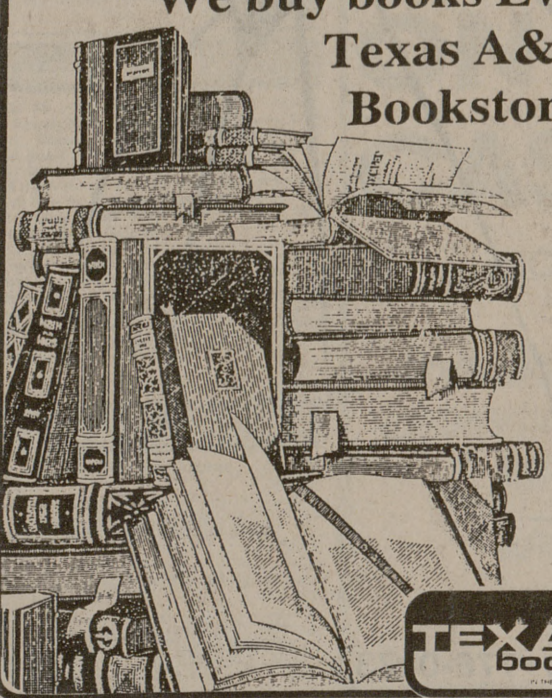
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Old Sarge

(Continued from page 1)
around." Hogan called the costume 'laughable' and said even if the new mascot plan was well-executed and looked like the popular Old Sarge, it would appeal only to people who

had never been to A&M. "I appreciate what Jackie does here," Hogan said. "He is out in the student body, and doing charity and has come up with some great things, but I think on this one he may have just had some ideas left from another school."

"That costume simply can't work at A&M. We are proud that we are different." "Besides, how do we know how Sarge acts? If he acts like he looks, he will scare the kids, and if he acts funny the student body will be embarrassed."

Rumors of the costume were published in a letter to *The Battalion's* Mail Call Monday warning the A&M student body that an Old Sarge mascot-type costume was in the works and called for Aggies to unite in opposition before it became reality.

Budget

(Continued from page 1)
most 27 percent of fees to be given to the MSC and reserves of about \$40,000 to be given to KANM in order for it to convert from cable to FM radio. Doug Baumann, chairman of the Finance Committee, said the budget probably will upset some directors but will serve the best interests of students. He said the Finance Committee allocated the fees on the basis of which organi-

zations provided vital services to students. Baumann said he hopes Student Services will follow past pattern and accept the budget as it is. In other business, the Senate, against the warnings of Faculty Senate representative Walter Buenger about faculty alienation, approved a final-exam schedule for next semester that would give instructors the option of not giving finals to graduating seniors. The schedule will be presented to

the Faculty Senate as a recommendation. If an instructor chooses to give finals to seniors, he will administer two finals — one for seniors and one for non-seniors. The proposal would return the finals schedule to the way it was last spring — a five-day dead week preceding a week of finals. Graduation ceremonies, Final Review and Commissioning — for Corps of Cadets members entering the military — would be held

on the weekend prior to finals week. As the schedule now stands, these ceremonies will be held the weekend after finals. Buenger, an associate history professor, said the Senate proposal will alienate some faculty who won't want to make two exams and won't be seriously considered by the Faculty Senate. "Some (faculty) might see this as throwing down the gauntlet," Buenger said.

Cyclotron

(Continued from page 1)
the old cyclotron. This was a result of research on the compressibility of atomic material. He said the A&M cyclotron differs from a "classical," or basic, cyclotron in that it can overcome the fact that matter increases in mass as it approaches the speed of light, which is 186,000 miles per second in a vacuum. The basic cyclotron consists of three parts: a device for producing the atomic material to be accelerated, the accelerator itself, and the target and detectors toward which the material is directed. The first portion is called an ion source, and it removes parts of the atoms to be accelerated. This is necessary because of the basic structure of atoms. Atoms are composed of a core of protons and neutrons orbited by clouds of electrons. The protons have a positive charge and the electrons have a negative charge. These charges normally will balance each other out and give the atom a neutral charge.

But, Youngblood said, in order to make atoms collide, the electrons must be taken away, leaving what is called an ion. The cores of the atoms have a positive charge and they would normally repel each other, Youngblood said, so acceleration of the particles is necessary to overcome this repulsion. Youngblood said the ion source in the old cyclotron could remove only four electrons from an oxygen atom while the new source can remove all eight electrons from the atom. This process doubles the number of electrons removed and quadruples the energy that can be imparted to the ions by the magnetic field. From the ion source, the ions are injected into the magnetic field created by the superconducting magnets. The ions gain energy as they spiral outward from the ion source. Youngblood said there are 30,000 feet of niobium titanium superconducting wire that is cooled by liquid helium to within five degrees of ab-

solute zero, or minus 268 degrees Celsius, within the device. At this temperature, the wire loses all resistance to electric current and creates intense magnetic fields. These fields force the ions into spiral patterns inside two short cylindrical chambers called dees, named so because of their "D" shape. The dees are separated, and the gap in between them is what gives the ions their acceleration. The dees are connected to a radio frequency source that causes the polarity of the dees to be reversed and gives the particles additional acceleration each time they pass through a gap. At low energies, this type of cyclotron would be adequate, Youngblood said, but for research at higher energies, some changes must be made in the design. He said this is caused by a property of matter to gain mass as it approaches the speed of light. This problem is overcome by a technique called sector focusing.

"The problem in a classical cyclotron is that the particles are always, no matter what their energy, within the cyclotron following that spiral pattern," Youngblood said. "They are all getting back to the edge of the dee at the same time, so they are everywhere along that spiral path. If you look at particles, they are in bunches, but they're all lined up on a radius. "Now that's true if the mass of the particles is constant. When you get up to higher energies, the mass changes — a relativistic mass change." When the particles have achieved their maximum orbit inside the accelerator, they are deflected from their circular path and sent along evacuated tubes. Magnets are used to deflect and channel the ion toward various targets in a network of branching tubes. Youngblood said there are now five such paths for ions to travel to the targets, but three additional paths are planned. He said the targets are structures where the beams of ions can be directed at experiments and detectors that are in a vacuum.

Maids at Boston hotel ordered to scrub floors by hand; union leaders object

BOSTON (AP) — Chambermaids at Boston's luxurious Copley Plaza Hotel have been ordered to put aside their mops and start scrubbing floors by hand, angering union leaders who say washing floors on hands and knees is demeaning. "A maid is a maid, and that's just what she has to do," said Alan Tremain, president of Hotels of Distinction, which operates the Copley Plaza for owner John Hancock Mutual Life Insurance Co. He said the hotel maintains its reputation by being "a hands-on business, with a lot of attention to detail." "The minute the bags are carried from the car, they are given to a bellboy in the lobby," he said. "The silver is polished when it's put on the table." The nearly 60 maids at Copley are not exempt, he said, adding he believes the Boston Hotel and

Restaurant Workers Union Local No. 26 is protesting the order because contract negotiations are coming up in December 1988. Union President Dominic Bozzotto said the hotel's maids were ordered Nov. 10 to turn in their mops. Signs in the hotel told the women, who are paid \$7.15 an hour, that "There will be no mops used in the rooms of this hotel until further notice! Please help yourself to as many clean rags as you like for hand washing floors." Bozzotto said, "This means that they can only clean with their hands, and that means they'll be on their hands and knees. The hotel knows that 99 percent of these maids are minorities and most of them are older women. It's just outrageous that in 1987, we have no cleaning instruments to do this job."

"The scene of a white male sitting in his hotel room reading the *Wall Street Journal* while the black maid is in the bathroom on her hands and knees — it's just preposterous." Most of the maids are unwilling to speak out against the new policy for fear of losing their jobs, Bozzotto said. One who asked that her name not be used said the maids planned ask for a meeting with management. "I think the policy is downgrading for us ladies," she said. "We have to get on our hands and knees to clean. We'd rather use a mop." The general manager of the Ritz-Carlton in Boston said their maids can either hand-wash or mop floors. The housekeeping spokesman for New York's Plaza Hotel said maids there have to clean floors using a small brush.

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