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AND
THE PENNSYLVANIANS**

WEDNESDAY, DECEMBER 6, 1967
AT 8:00 P. M.

G. ROLLIE WHITE COLISEUM

TICKETS . . .

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| A&M Students Date | \$1.50 |
| Public School Student | 2.00 |
| General Admission | 3.00 |
| Reserved Seat | 3.50 & 4.00 |

Rotary Community Series Season Ticket Holders are Entitled To General Admission Seats Upon Presentation Of Their Rotary Season Ticket.

**\$6 Million Cyclotron
To Be Dedicated**

Texas A&M's new cyclotron, one of the most powerful and precise instruments ever built for nuclear research, will be dedicated here Monday.

Three world-famed scientists will participate in the ceremonies. They are Dr. Glenn T. Seaborg, chairman of the U. S. Atomic Energy Commission; Dr. Willard F. Libby, director of UCLA's Institute of Geophysics and Planetary Physics; and Dr. M. Stanley Livingston, associate director of the National Accelerator Laboratory near Chicago.

THE \$6 MILLION MACHINE, which was "turned on" for the first time in August, will be used for experiments in physics, biology, medicine and engineering. By accelerating tiny nuclear particles to high speeds and bombarding various materials with them, the cyclotron gives scientists information on how matter and energy behave.

Researchers at M. D. Anderson Hospital in Houston are interested in bombarding tumor tissue with high-speed neutrons, which can be produced by the cyclotron.

In basic physics, scientists want more information on how the nuclei, or cores, of atoms react with each other.

A&M's machine, the world's first major cyclotron built with "off-the-shelf" parts on a competitive-bid basis, is housed in a modern 46,000-square-foot building on the campus.

THE BUILDING WILL be the site of the dedication ceremonies starting at 9:30 a.m. Monday.

Dr. Seaborg, winner of the 1951 Nobel Prize in chemistry, will deliver the major address: "The Advancing Frontiers of Intellectual Development."

Dr. Libby, winner of the Nobel Prize in chemistry for 1960, will speak on "The Contribution of Nuclear Science to Chemistry."

Dr. Livingston, who worked

with the late Ernest O. Lawrence in development of the first cyclotron, will present a lecture, "Ernest Lawrence and the Cyclotron," at 2 p.m. Monday in the Physics Building.

AN OPEN HOUSE, during which the public is invited to view the cyclotron and the various other facilities housed in the cyclotron institute building, will be held from 3 to 5 p.m. and from 7 to 9 p.m. Monday.

A number of dignitaries from government, science and education will be present for the dedication.

The cyclotron, the only machine of its kind in the Southwest, is a "third generation" outgrowth of the first machine built by Lawrence and Livingston.

Patterned after a cyclotron with an 88-inch particle chamber at the Lawrence Radiation Laboratory in Berkeley, Calif., the A & M machine incorporates a number of improvements in design.

AS THE NUCLEAR PARTICLES are whirled around in the machine, they are focused by magnetic fields somewhat like lenses focus light, to compensate for effects predicted by relativity theory. It is this "sector focusing" capability which makes the A&M cyclotron one of the elegantly designed accelerators ever built.

The cyclotron will be able to give a number of nuclear particles various speeds. It will accelerate protons—basic building blocks of the atom's core—to speeds of from six to 60 million electron volts. (The electrons which form the picture in a television tube are accelerated at about 20,000 electron volts.)

The thing which gives the particles the kicks to faster and faster speeds is radio frequency energy. In operation, this takes 400,000 watts—enough to power eight commercial radio stations.



TV FOR PE

**TV Aids Teaching
In PE Department**

A television screen comes to life, re-enacting a scene portrayed only moments before.

Watching the "instant replay" are Texas A&M students studying teacher education in the Health and Physical Education Department.

The department headed by Dr. Carl W. Landiss began using "micro-teaching," a compact, highly portable closed-circuit TV outfit, recently to help the student teachers improve instructional techniques.

Dr. Linus J. Dowell, in charge of teacher education, said the playback enables the student to see himself work. The instructor can make a quick critique of the presentation while it is still fresh on the student's minds, review personal movements, loudness of speech, diction, correct use of equipment, timing, position and other factors.

"A student critique may cover

a particular point left out of a presentation," Dowell described. "Most times the student teachers will insist he did the correct thing. The replay eliminates any argument."

The associate professor said of the electronic gear with student teachers now in health and PE may already be making a difference in the student's progress.

"He is better prepared if he knows he is going on tape," Dowell noted.

"We are using micro-teaching in two areas—teacher training and skill learning," he went on. "It is used to teach a very simple skill to a small group. Our groups working before the camera are limited to five."

A&M gymnasts have used the instant replay to improve their skills. Dowell pointed out that other groups—wrestling, tennis, volleyball and basketball—can make valuable use of the equipment.

"I think micro-teaching will come to be used in public schools," the instructor added. "We hope to tape our student teachers while they are on assignment next spring."

The Educational TV Department equipment includes a camera that will fit in a suitcase, a wheel room to spare, and a wheel record-playback console with a 12-inch screen.

The tele-trainer, as it is called by the manufacturer, costs from \$2,000 to \$4,000, depending upon equipment sophistication and camera lens quality. A&M students work in front of a Canon f/1.8 zoom lens of 25 to 100 mm focal length.

"It's easy to run," Dowell commented. "Anybody can operate the unit once it is set up. To get the full benefit of its capabilities, however, a technician should operate the gear."

Dowell has been taping each of his 31 student teachers using one 30-minute-long reel of tape. The gymnasts used the same reel. An erase capability makes the same reel reusable.

"Most college and university teacher education areas are using these units," Dowell pointed out. "Elsewhere, it's called mini-teaching or simulation—teaching A&M's Education Department also uses this unit, which means its usage has to be scheduled closely."

"We are exploring the possibilities. There are many ways of using such equipment that have not been discovered nor perfected."

**Civilians To Meet
With Food Director**

The Civilian Student Menu Committee will meet with university food service officials at noon Monday for its regular monthly discussion of Sbsa dining operations, announced Edwin T. Cooper, director of civilian student activities.

Cooper said the group will meet in the Sbsa office of Col. Fred Dollar, food service director, and then have lunch together.

Any civilian student desiring to offer suggestions about the dining operation is invited to contact one of the committee members and attend the luncheon meeting as his guest, Cooper said.

Permanent members of the committee are: Civilian Student Council President Griff Venator, Room 47, Milner Hall; Graduate Student Council President Charles E. Knowles, 302 Live Oak, College Station; Civilian Student Council members George N. Walne, Room 47, Milner Hall, and Stephen Bancroft, Room 424, Dorm 15.

Cooper pointed out the Corps of Cadets has a separate menu committee.

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| Pork Steak Butt Cut. Fresh. —Lb. 55¢ | Thick Sliced Bacon Softway. 2 Lb. \$1 ²⁵ |
| Canned Picnic Samsal's Mohawk. 3 Lb. \$2 ¹⁹ | Armour Franks Softway—47¢. All Meats. —12-oz. Pkg. 49¢ |

Heavy Beef Sale!

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| Chuck Roast Blade Cut. USDA Choice Heavy Beef—Lb. 49¢ |
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| Chuck Steak Center Cut. USDA Choice Grade Heavy Beef—Lb. 59¢ |
| Arm Roast USDA Choice Grade Heavy Beef—Lb. 69¢ |
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Everyday Low Price!

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