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Presents...

## FRED WARING

THE PENNSYLVANIANS

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

G. ROLLIE WHITE COLISEUM

TICKETS . . .

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

one of the most powerful and precise instruments ever built for nuclear research, will be dedicated here Monday.

Three world-famed scientists Building. 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 tists information on how matter and energy behave.

Researchers at M. D. Anderson Hospital in Houston are interes- sign. ted in bombarding tumor tissue 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

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 are accelerated at about 20,000 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."

Texas A&M's new cyclotron, 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

> 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 dignataries from government, science and education will be present for the dedi-

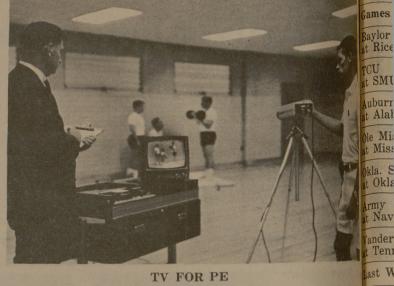
The cyclotron, the only machine of its kind in the Southwest, is a "third generation" outgrowth of the first machine built by Lawrence and Livingston.

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

AS THE NUCLEAR PARTIwith high-speed neutrons, which CLES 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 elegantlydesigned accelerators ever built.

The cyclotron will be able to give a number of nuclear particles various speeds. It will accelerate THE BUILDING WILL be the 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 electron volts.) The thing which gives the par-

ticles the kicks to faster and faster speeds is radio frequency energy. In operation, this takes 400,000 watts-enough to power Dr. Livingston, who worked eight commercial radio stations.



## TV Aids Teaching sc In PE Department All 1713 S

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 De-

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 personl movements, loudness of speech, diction, correct use of equipment, timing, position and

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"A student critique may cover

presentation," Dowell describe 'Most times the student teacher will insist he did the corret thing The replay eliminates any argument."

The associate professor said us 000 day of the electronic gear with student teachers now in healt and PE may already be making a difference in the student's pro-

"He is better prepared if h knows he is going on tape," Dow ell noted.

"We are using micro-teachin in two area-teacher training a skill learing," he went on. "It used to teach a very simple sk to a small group. Our groups working before the camera ar limited to five."

A&M gymnasts have used t instant replay to improve their skills. Dowell pointed out that other groups-wrestlinf, tenni volleyball and basketball-ca make valuable use of the equip-

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

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

The tele-trainer, as it is calle 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 ope-

rate 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 close-

"We are exploring the pissibil ties. There are many ways of using such equipment that have no been discovered nor perfected."

## Civilians To Meet With Food Director

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

Cooper said the group will meet in the Sbisa 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, 220 E.

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

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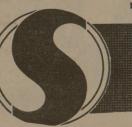
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