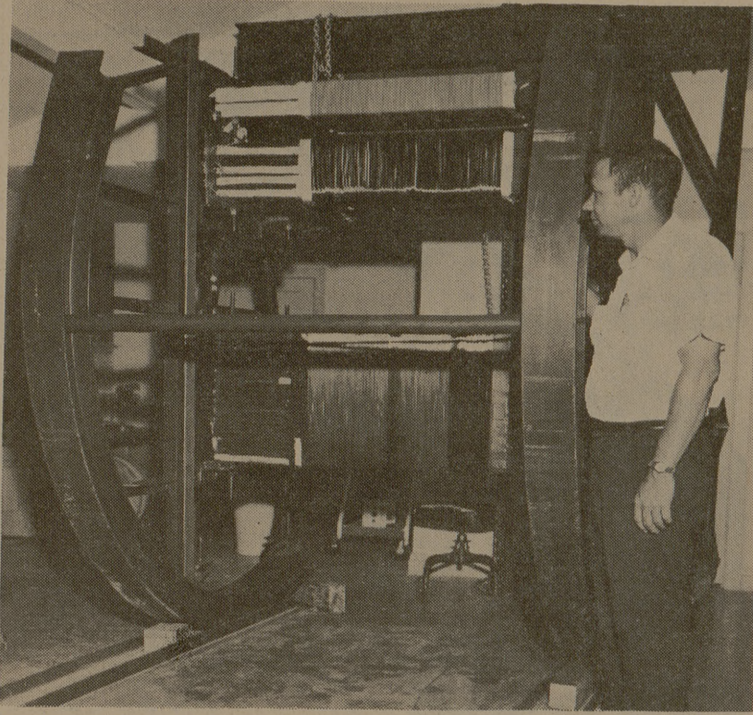


Job Calls

TODAY
 Ethyl Corporation: Chemical Engineering (B,M,D), Electrical Engineering (B,M), Industrial Engineering (B,M), Mechanical Engineering (B,M). Also summer employment for Juniors.
 Pan American Petroleum Corporation: Chemical Engineering (B,M), Mechanical Engineering (B,M), Petroleum Engineering (B,M). Also, Summer Employment for JUNIORS, SENIORS, GRADUATE STUDENTS.
 Houston Lighting & Power Company, Engineering Department: Electrical Engineering (B,M,D). Also summer employment for Juniors, Seniors, Graduate Students.
 Houston Lighting & Power Company, Power Department: Chemical Engineering (B), Electrical Engineering (B), Industrial Engineering (B), Mechanical Engineering (B).
 Houston Lighting & Power Company, Industrial Sales Division: Chemical Engineering (B), Electrical Engineering (B), Industrial Engineering (B), Mechanical Engineering (B).
 Reynolds Metals Company: Chemical Engineering (B,M), Electrical Engineering (B,M), Industrial Engineering (B,M), Mechanical Engineering (B,M).
 Texas Eastern Transmission

Company: Accounting (B), Computer Science (B), Mathematics (B), Chemical Engineering (B), Civil Engineering (B), Electrical Engineering (B), Industrial Engineering (B), Mechanical Engineering (B), Mechanical Engineering (B).
 Freeport Sulphur Company: Chemical Engineering (B,M), Mechanical Engineering (B,M), Petroleum Engineering (B,M).
 Houston Lighting & Power Company, Commercial & Residential Sales: Agricultural Economics, Agricultural Education, Management, Marketing, Industrial Distribution.
 Powers Regulator Company: Architectural Construction, Chemical Engineering, Civil Engineering, Electrical Engineering, Industrial Distribution, Industrial Technology, Mechanical Engineering, Marketing, Mathematics, Physics. MBA with Technical Undergraduate Degree.
 Defense Intelligence Agency: Chemistry (B,M), Civil Engineering (B,M), Computer Science (B,M), Economics (B,M), Forestry (B,M), Geology (B,M), Geography (B,M), Mathematics (B,M), Meteorology (B,M), Nuclear Engineering (B,M), Physics (B,M).
TODAY & WEDNESDAY
 Arthur Anderson & Company: Accounting, Industrial Engineering, Computer Science.



'ROCKING CHAIR' TELESCOPE

Designer Gene Cantrell surveys the state of progress on a 9 1/2-ton spectrometer telescope under construction at Texas A&M University. The particle telescope will rock along east-west oriented tracks to achieve any angle of elevation to the zenith. The magnet and spark chamber assembly carried inside the rockers will give clues to the deep-space origin of radiation that forms muons (cq) particles in the earth's atmosphere.

Business Seminars Examine Harvard

An opportunity to discover first-hand some of the advantages and disadvantages of attending graduate business schools will be afforded A&M students tonight at 6 p.m. at Clayton's Restaurant.

Four A&M-Harvard Business School graduates will begin a dialogue concerning entrance requirements, expenses, living conditions, and the influence of the Harvard Business School on their careers.

Wayne Prescott, coordinator of the program, said business school denotes management school and students are drawn primarily from engineering and liberal arts. An insufficient supply of managers who are also competent in their chosen field of study exists.

Telescope To Study Muons

The configuration of a telescope under construction at Texas A&M is almost complete.

The 9 1/2-ton spectrometer telescope will be one of the largest in existence and will be maneuverable, a capability other particle telescopes of similar size do not have.

The spectrometer telescope will be operational within the academic year and serve as prototype of a 12-ton model, according to Dr. Nelson M. Duller of the Physics Department.

THE LARGER telescope will be installed on 17,000-foot Mt. Chalcaltaya near La Paz, Bolivia, the project head stated. Work on the larger instrument will begin before September, 1968.

Resembling an eight-foot tall rocking chair, the telescope will be used to study muons, a class of particles born when powerful cosmic rays strike the earth's upper atmosphere.

"These are high-energy particles," Duller described. "The muon is the only one among similarly charged particles that will penetrate three feet of iron. Some go hundreds of feet into the ground."

RESEARCH on the muon is being conducted by A&M and the Southwest Center for Advanced Studies at Dallas under an Air Force Office of Scientific Research grant. The Air Force operates a scientific station on Chalcaltaya, where the muons will only have to penetrate half the earth's atmosphere to reach a particle telescope.

Optical telescopes gather and reflect or refract light rays to a focus for study at that point. The spectrometer telescope designed by Gene Cantrell, B. J. Bateman and Al V. Jelinek will study muon particles in passing. The three designers are A&M graduate students in physics. Cantrell, a doctoral student, is an instructor.

Muon particles will show up as tiny "lightning" trails in telescope spark chambers oriented above, between and below a pair of magnets weighing eight tons.

"PICTURES of the spark chamber flashes will show where the particle went and how it was deflected by the magnets," Duller said. "From this data, it will be possible to calculate the particle's energy and where it came from in relation to the earth's atmosphere."

The physics professor noted that muons originate in the upper tenth of the atmosphere, a product of the decay of pion particles. Pions are produced directly by protons, or cosmic radiation, which come from various parts of the galaxy.

"We will be able to extrapolate the particle's path back to the surface of the atmosphere and determine its angle and point of origin," he went on.

DULLER SAID the muon's path is virtually straight with the original angle of entry of cosmic radiation. He said the spectrometer telescope's 2-by-2-foot "aperture" will "see" two muons per second.

Telescope spark chambers are three feet by three feet by eight inches. Each will contain a helium-isobutane mixture triggered by electrical pulses of 80,000 volts at 1,000 amperes.

Spark chambers are being installed at present by Jelinek, of Houston. Power plant construction in progress is the responsibility of Bateman, of Blountstown, Fla. Prof. Phillip Green has charge of plastic scintillation detectors, which will sense muons and "instruct" the telescope to charge its chambers.

A SPECTROMETER telescope observatory doesn't have the imposing slitted dome usually associated with astronomical telescopes, because of the muon's disregard for material in its path. The particle passes unaffected through roofing and other material, so the spectrometer telescope can be enclosed in a building. The prototype telescope is oriented on steel tracks in an A&M Research Annex building.

Tracks for the circular spark rockers are oriented east-south, "though it could have been south," Duller added.

Research Annex building.

Tracks for the circular spark rockers are oriented east-south, "though it could have been south," Duller added.

One person can roll the telescope device along the tracks. Orient magnets and spark chambers on points from the telescope below the horizon. The telescope will roll through an angle of 95 degrees.

Muon astronomy has advantages over optical astronomy. Astronomers close the shutters and go to bed when seeing conditions are interrupted by clouds or bad weather. The muon doesn't "notice" clouds, moisture or atmospheric heating that deflects light rays and disrupts visual observations.

Duller said a muon passing straight through a bolt of lightning probably is not affected.

'Aggie Review Auditions Set

Auditions for the Aggie Student Review in December will be held during the first two weeks of November.

Michael T. Curd of Fort Worth Memorial Student Center, chairman of the committee, said that the auditions Nov. 1-3 and will be in the Singing Classroom in the left wing of G. Rollie White Coliseum.

"The five audition dates are open to all students, coeds and graduate students included," Curd noted. In the past, from 15 to 20 acts have auditioned.

He said he hopes the December Review will be broader in scope with more activities and continuity. The Review will be an opportunity for talent competition on campus.

A serious sign in the progression of alcoholism is the need for an "eye-opener" before beginning the day.



I won't go into business when I graduate because:

- a. I'd lose my individuality.
- b. It's graduate school for me.
- c. My mother wants me to be a doctor.

Can't argue with c), but before you check a) or b)—pencils up! There have been some changes. Drastic changes in the business scene. But changes in the *vox populi* attitude regarding business... especially on campus... just haven't kept pace.

Take the belabored point that business turns you into a jellyfish. The men who run most of the nation's successful firms didn't arrive by nepotism, by trusting an Ouija board, or by agreeing with their bosses. Along the way, a well-modulated "No" was said. And backed up with the savvy and guts today's business demands.

In short, individuality is highly prized in much of the business world—the successful much. Even when the business is big. Like Western Electric, the manufacturing and supply unit of the Bell System.

We provide communications equipment for

our Bell System teammates, the Bell telephone companies. This takes a lot of thought, decisions, strong stands for our convictions, (and sometimes some mistakes... we're human, every 160,000 of us).

Individuality pays off. Not only in raises, but in personal reward as well. Like an engineer who knew deep down that there was a better way to make a certain wire connector—and did. Or a WE gal who streamlined time-consuming office procedures, and saved us some \$63,000 a year.

Rewards and accolades. For saying "No." For thinking creatively and individually. For doing.

Not every hour is Fun Hour, but if you've got imagination and individuality—you've got it made. With a business like Western Electric. We'll even help you answer b) with our Tuition Refund program. Come on in and go for President!



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