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Micro Studies Receive Aid Of New 'Scope

One of the world's most powerful electron microscopes has been added to the Electron Microscopy Laboratory at A&M for faculty and advanced students to use with research work.

The microscope was installed in the Physics Building by Yoshi Yuki Kamata, a representative of the Japanese firm that manufactured the equipment. The instrument, valued at \$40,000 has been loaned to A&M by Fisher Scientific Company.

Dr. U. Grant Whitehouse, head of the Electron Microscopy Laboratory, said the instrument is a newer version that will supplement equipment already being used by faculty and students.

The new microscope will magnify up to 200,000 times and will enable scientists to analyze particles as small as 10 atoms wide.

The laboratory, established 12 years ago, houses more than 2,000 square feet of powerful equipment. It is the center for teaching and research for 20 different departments of the university.

Some of the research projects include studies of plant and animal diseases, effects of radiation on animal cells, chemistry of asphalt, soil structures and storage effects on sweet potatoes.

"We have had a variety of research subjects," Whitehouse, who came to A&M in 1953, reported. "The instruments can be of value to anyone in fields of science."

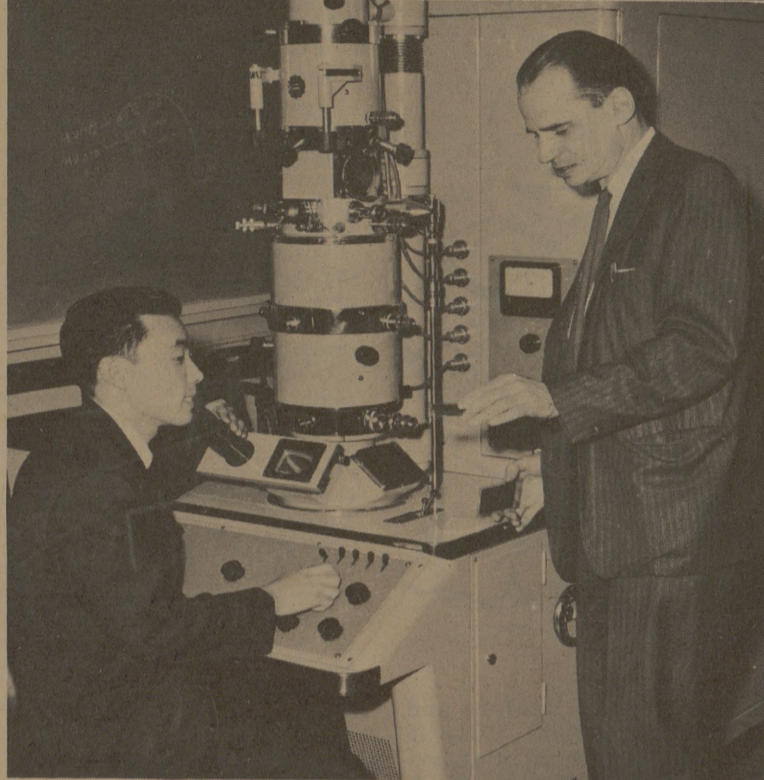
Electron microscopes work on the same principle as the familiar light microscopes. An electron gun emits electrons which pass through the specimen and a series of lenses.

Although much work can be done with ordinary microscopes, the more critical the research the more powerful the instrument needs to be, Whitehouse added.

The samples are prepared on tiny discs, about one-eighth of an inch in diameter. The electron light is supplied through a tiny wire, about one-one thousandth of an inch in diameter.

Where an ordinary microscope can pinpoint particles equal to one-two millionth of an inch, the electron microscope can do the same thing with minute objects equal to about one-20 millionth of an inch.

Whitehouse said the new equipment will enable the laboratory to handle an extra load of students as well as acquaint them with different types of electron microscopes.



NEW ELECTRON MICROSCOPE
Dr. U. G. Whitehouse confers with Yoshi Yuki Kamata.

Directory, 'Hubby Guide' Compiled By Wives Council

The Aggie Wives Council has, for the first time, compiled a directory and "Pushing - Hubby - Through" guide for the married women on campus.

Mrs. Bonnie Morgan, president of the council, said that the purpose of the 95-page directory and guide is to acquaint the girls with campus happenings and make them more familiar with the events pertaining to them.

Mrs. Morgan added that the council published the book to get those married women who are not acquainted with the organizations, and some who may be getting "wall-it-is," to look in the directory

for aid in an inexpensive way to spend time.

Under the husband's major, where other wives with their husbands majoring in the same field are listed, will be those happy to introduce the wife into her particular wives club, said Mrs. Morgan.

Features of the book include sections on traditions of A&M, PHT Banquet and Awards, calendar of events, laundry hints, meaning of the colors, health and happiness, mental health, and a household section which includes charts on buying and cooking. Mrs. Sammie Cates wrote much of the section on household section. Mrs. Morgan said the husbands name is given with the wives.

Mrs. Morgan called special attention to the cover which was designed by Muriel Silcock, vice president of the council. The cover has the seal for the Aggie Wives Council with the husband and wife at graduation time, both having degrees.

The wives council had to do all the research for getting the names of married students separated

from the unmarried since there are no special forms filled out by married students during registration. The council, a non-profit organization, use advertising to pay for the cost of publishing the book which will be distributed to the wives clubs by the presidents of the various clubs.

After the married students names were separated, a list was made of the major field of study and it was given to the president of the club in that area of interest. Mrs. Morgan said a newsletter and literature were sent to the women to encourage them to join the club. The president of each club sent a list to the council for the directory.

The Aggie Wives Council is composed of the president and one elected representative from each wives club. Yearly activities include serving at the freshman and faculty receptions, publishing a monthly newsletter of club activities, participating in the Brazos County T. B. Association Drive, Campus Mothers' March of Dimes and sponsoring of the Mrs. Texas A&M Contest and Dance.

Local Law Enforcement Week Initiated By Bryan Jaycees

The Bryan Jaycees kicked their "Law Enforcement Week" off to a fine start Thursday, when Homer Garrison, Director of Texas Department of Public Safety presented awards on behalf of the Jaycees to Chief Ellison of the Bryan Police, Chief of the College Station Police, Jerry Hamilton, Sheriff of Brazos County, and Highway Patrolman Allan in appreciation of their fine service to the community.

The presentations were held during a noon luncheon at Clayton's Restaurant. Garrison was introduced to the Jaycees by Sen. Bill T. Moore.

Prior to Garrison's address, Congressman Olin E. Teague, George Lowe and Joe Shea of NASA, Lt. Gen. Fischer and Brig. Gen. Safford of Ft. Hood dropped in briefly for a visit while on tour of the Bryan-College Station area.

Garrison's address prior to the presentations dealt with the responsibility of the public to support its law enforcement agencies. "Law enforcement unfortunately is a negative factor in a democratic society where the officers have a gun and authority exceeding that of the individual," said Garrison. "As a result, the officer has to be exceedingly careful not to make a mistake in a system where the public is only too quick to pounce on the agency involved," said Garrison.

Garrison went on to stress that the whole purpose of law enforcement was to make the state a better place to live. Often, he said, the people take the presence of the law for granted, and with it the bravery and unselfishness of the dedicated officers that enable us to sleep safely in our homes.

Citing the situation in Boston in 1917, when the relief shift of policemen failed to show up on their beats, Garrison said that utter chaos prevailed until order was restored with the help of the National Guard and the Army.

Garrison said that the only way that the law enforcement agencies could increase their effectiveness was by more public responsibility and support. "Law enforcement agencies know how to solve our crimes and deter future breaches of the law, but they cannot become effective until the public plays its full role too," said Garrison.

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Class Officers Chosen As Run-off Elections Boast Light Turnout

By BOB SCHULZ
Battalion Staff Writer

Of a student body of 7,128, 1,403 persons voted in the class election run-offs yesterday.

The Class of '65 had the largest turnout, with 620 votes cast for the 12 candidates. Officers for next year's senior class are:

President, H. Hale Burr, Economics major from Vidor; Vice-president, Mario A. Macaluso, San Antonio, pre-med; Secretary-treasurer, William C. Bender, Education major from Houston;

Historian, Edward L. Kainer, Sociology, Waco; Memorial Student Center Council, Albert W. Clay, Houston, Personnel; Student Entertainment Manager, C. D. Lindsay, Architecture major from Houston.

In the Class of '66 run-offs, a total of 453 votes was cast. Officers are:

President, Julian S. Smith, Math major from Tyler; Vice-president, Narciso O. Cano, Aeronautical Engineering, San Antonio; Secretary-treasurer, Roland D. Smith, Agronomy major from Lawn;

Social Secretary, Harris J. Pappas, Finance major from Houston; Memorial Student Center Council, Donald E. Allen, Accounting, Fred; Yell Leader, Joe Bush, Temple, Pre-law.

There were 330 votes cast by

the class of '67, as compared to 504 votes cast in the primary election. Officers for next year's sophomore class are:

President, Wayne B. Fudge, an accounting major from Burkburnett; Vice-president, Dennis R. McElroy, Management major from San Antonio; Secretary-treasurer, Robert J. Myers, Architecture, Marietta, Ga.;

Social Secretary, Jack E. Nelson, Aeronautical Engineering, Pearland; Memorial Student Center Council, Thomas A. Laramey, a Chemistry major from Temple.

Three positions had already been decided by the primary elections.

Frank W. Cox was chosen Head Yell Leader and Ronald L. Dockery was elected one of the Junior Yell Leaders. Gary Tisdale was elected Social Secretary of the Class of '65.

Shelly Veselka, chairman of the Election Commission, said last night that, though the turnout for the run-offs was small, it was about average.

"Where the number of students participating will really be small," he said, "will be in the General Elections soon to come. Few students take interest in this election."

A&M Profs Slated For NSF Courses

Special science courses for junior and senior high school teachers of the Galveston, Temple and Victoria areas will be taught by A&M professors under a \$20,490 grant from the National Science Foundation, President Earl Rudder announced Wednesday.

The nine-month courses will start in September.

Marine biology will be taught at Galveston and the earth sciences at Victoria and Temple.

The courses are to be offered

without charge to teachers within commuting distance of the teaching centers. Books and travel expenses are provided and the courses may be taken for academic credit.

C. M. Loyd, who coordinates National Science Foundation programs at A&M, said Dr. Sammy M. Ray of the A&M Marine Laboratory, Galveston, will supervise the program there. Dr. Dale F. Leipper of the Department of Oceanography and Meteorology will direct the Temple and Victoria programs.

Further details may be obtained from Loyd.

Meteorology will be taught at Victoria this fall and at Temple in the spring. Oceanography will be taught at Temple this fall, and astronomy will be offered at Victoria in the spring.

Facilities of the marine laboratory at Galveston, Temple High School and Victoria Junior College will be used.

Neglect Of Duties Cost Solons' Jobs

Four student senators were relieved of their duties Wednesday night as a result of Senate action upon excessive absences.

The senators who suffered expulsion were Frank Hall, the Graduate Student representative; James Parker, junior representative from the School of Agriculture; Albert Tijerina, junior representative from the School of Arts and Sciences and Harry Vogt, sophomore representative from the School of Veterinary Medicine.

Alan Peterson, chairman of the Senate Welfare Committee, said that the Senate posts were just like a job in everyday life. "If you don't show up for it, you get fired," he said.

Larry Garrett stated that the Senate should take some of the blame for the number of absences because they had not discussed the problem at any length and because they failed to get a copy of the Senate Constitution to the members at the beginning of the year.

The constitution states that senators shall be automatically relieved of their duties if they fail to attend four meetings during the year.

The senators who lost their jobs had not attended meetings since the first of the year.

Student Body President Harlan Roberts said there were other senators who should be on the list but these were the worst cases.

Greg Laughlin advocated a tougher policy on absences because, as he stated, "if these men knew their positions were in jeopardy they might do a better job. At least maybe this way no one will vote for them again."

In other Student Senate business, Peterson put forward the suggestion that the Senate seek the stoppage of sales of miniature senior rings for women because of the possibility of a different ring for women as proposed by the Senate at an earlier meeting.

Any action on this proposal was postponed until a policy for coed senior rings is adopted by the Executive Committee.

Pat Nance announced that all civilian dorms that do not presently have a bench will receive one of the 10 to be built by the Department of Buildings and Utilities.

The remainder of the benches will be set up in the new corps area.

Faculty Advisor Run-Off Scheduled

Voting in run-off elections to fill six places on the new Faculty Advisory Council of A&M University College of Arts and Sciences will end Monday.

The council is being established as an advisory body to consider "matters of significant interest and importance to the faculty of the College of Arts and Sciences."

One representative will be named from each of four areas of study and three councilmen are being elected at large. A faculty member may vote in each of the races.

Dr. William A. Luker, unopposed for School of Business Administration representative, was the only winner in the initial ballot.

Candidates in the run-off elections are:

From the natural sciences, Lawrence Dillon and George Martin Krise; the humanities, John Q. Hays and Harrison E. Hieth; the social sciences, Haskell Monroe and Walter A. Varvel; and election at large, Garland E. Bayliss, William J. Clark, Edwin Doran Jr., Frederick R. Duke, Joe S. Ham and A. F. Isbell.



Town Hall Performer Marty Robbins, "The Gunfighter Balladeer," will appear Friday at 8 p. m. at Town Hall along with Bobby Sikes, Don Winters and the "Teardrops." Activity cards will be accepted.

English Department Presents Shakespeare Commemoration

The A&M University Shakespeare Commemoration, a series of special events, begins Sunday and continues through April 23 as part of the worldwide program marking the four hundredth anniversary of the bard's birth.

Lectures, a movie and a play, displays of a locally constructed model of the Globe Theater and materials from the Folger Library in Washington are featured. Other presentations include a special meeting of English students with Mark Van Doren, prize-winning poet and noted scholar.

"We're expecting visitors for the events including several groups from area towns and cities," Dr. John Q. Anderson, Department of English head, said.

Most of the presentations are free, but admission will be charged for a movie and the Aggie Players' production of "Dr. Faustus" April 13-18.

A&M's Shakespeare Commemoration will be presented by the Department of English in cooperation with the Department of History and Government, the School of Architecture, Cushing Memorial Library, Sigma Tau Delta, the Aggie Players and the English Society.

The movie, "Henry V," features Laurence Olivier and is scheduled Sunday and Monday as the first event. Sigma Tau Delta, honorary fraternity for English students, and the English Society are sponsoring the movie at the Campus Theater.

Teague, NASA Group See A&M Research Facilities

Congressman Olin E. Teague, two top-ranking NASA officials and two Army generals toured A&M University's research facilities Thursday.

The visitors from Houston's Manned Spacecraft Center included George Low, the center's deputy director, and Dr. Joseph Shea, manager of Project APOLLO. The two officers, both from Ft. Hood, were Lt. Gen. Harvey Fischer, commanding general of the Army's III Corps, and Brig. Gen. R. H. Safford, assistant commander of the 2nd Armored Division.

President of A&M's Association of Former Students John H. Lindsey of Houston, as well as Graduate Dean Wayne Hall and Associate Dean of Engineering Dr. Richard E. Wainerdi, conducted the day-long tour.

The group visited Wainerdi's "moon probe" project of the Activation Analysis Research Laboratory, toured Albritton Engineering Corporation's plant.



NASA OFFICIALS VISIT
Dr. Wainerdi explains electron generator to dignitaries.