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McCarthy Clips Czehura In Run-Off

Waivers: Scholarships Listed for 1972-73 at Tech

by Nancy Leskovar

The final meeting of the Scholarship Committee took place Tuesday, April 18th. Those receiving Resi waiver for the second year at Montana Tech. She must have acceptable academic standing and a consistent interest in continuing her education. Preference will be given to a student who plans to attend college.

The Cobb Foundation scholarships were established by Dr. Halbert, Dean Stoltz, Gerald Kenzka, Daniel Hane, Dan Tjahia, and Loren Hecema.

Each school year the American Smelting and Refining Company of Salt Lake City, Utah, gives $1,500.00, $750.00 of which is awarded to a student attending high school and must be in such need that shortage of funds would hamper his ability to attend college.

The First Metals Bank and Trust Company offers three scholarships—one for a boy and one for a girl for college work and one for a girl in high school.

The Bearcreek Scholarship of $750.00 was awarded to Edward A. Johnson. Gary Aho is the recipient of the Schlumberger Collegiate Award.

Members of the Scholarship Committee include Dr. McLeod, Dr. Goebl, Dr. Twell, Dr. Halbert, Dean Stoltz, Prof. Laity, Mr. F. Turner and Greg Shearman.

For Delegate A, Tad Dale defeated Dick West, Sigma Rho, 101 to 130.

For Justice A, Gary Munson garnered 149 votes, just barely defeating Kevin Thompson, an Independent candidate with 142 votes.

Mark Bossard won a more substantial victory for Justice B over Sigma Rho's Brian Sayre with 203 votes.

Business Office to Hold Next Year's ASMT Funds

by Kim Bawden

The Student Council, at its meeting of April 24, 1972, has accepted the idea proposed earlier that the Business Office will assume responsibility for the disbursement of all funds for the ASMT.

The present system has few checks and balances resulting in little or no control of how appropriated money is spent.

The new method, according to Vic Burt, places John Badovinac in the position of responsibility for the actual accounting of the ASMT's. Vic Burt will be responsible for overall administration as it relates to the Business Office. The Business Office will reconcile bank statements, receipt all funds, write all checks that have proper invoice approval, provide monthly statements on approximately the 15th of the following month, and write purchase orders, issue requisitions, and whatever else is necessary for the proper operation of the ASMT books.

All requisitions will have to be cleared through the Business Office. All invoices will have to be signed by an officer of the club initiating the requisition before payment can be made.

"For athletics only, after the athletic budget is approved, the Business Office will encumber premiums, etc. All athletic purchases will be submitted on a requisition stating the amount of the purchase, the item or items purchased, and all funds for the ASMT. The present system has few checks and balances resulting in little or no control of how appropriated money is spent."

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Tequila

This feels like being shut in a dark, cramped box. Not knowing if anyone’s listening, sometimes not caring, I shout or joke recklessly or sit oud pout despondently. But I do know there’s something wrong.

Well, for one thing, I’m not a subversive. I’m not dividing and conquering and trying to mind the petty business at hand or mouth or sometimes in the backroom. Going on, continuing what I started as I’ve heard ghosts sometime do, though I’ve never seen one. Still, things would be better, maybe tolerable, if I knew someone we worry about the sanity of the muck-raking, sensation room. Going on, continuing what I started as I’ve heard ghosts sometime do, though I’ve never seen one. Still, things would be better, maybe tolerable, if I knew someone we worry about the sanity of the muck-raking, sensation room. Going on, continuing what I started as I’ve heard ghosts sometime do, though I’ve never seen one. Still, things would be better, maybe tolerable, if I knew someone we worry about the sanity of the muck-raking, sensation

Honorary Alumni, Dr. Glenn, To Preside Over AIME

Wayne E. Glenn, who received a honorary Doctor of Science degree from Montana Tech in 1960, and a former director of the Montana Tech Foundation, has been elected president of the American Institute of Mining, Metallurgical and Petroleum Engineers for 1974. He will begin his service in May 1973 as president-elect and director.

Born in Fort Worth, Tex., Glenn is a graduate of the University of Oklahoma in petroleum engineering and of the Harvard Business School’s advanced management program. Currently he is president of the Western Hemisphere Petroleum Division of Continental Oil Company in Houston.

Included among his civic and professional activities are membership on the Boards of Directors of the American Petroleum Institute, the Mid-Continental Oil and Gas Association and the U. S. Chamber of Commerce. He is a trustee of the United Fund in Houston, a member of the Houston Zoological Society and a member of the Development Council of the city’s Museum of Natural Science.

New Officers

The new officers for the Anderson Carlisle Society are—president, Tom Holm; vice-president, Bill Rickard; vice-president, Kermit Be nke and secretary-treasurer, Pam Gruter. To conclude the year a banquet will be held May 17.

McCaslin Patents Gauge For Mine Stresses

A patent has been granted to a Montana Tech professor for his invention of an improved borehole deformation gauge. John G. McCaslin, head of the Department of Physics and Geophysics, says his patent is an improvement on existing gauges because stress patterns can be measured along multiple radial lines in a single plane perpendicular to the longitudinal axis of the borehole. Borehole deformation gauges he explains, are used to measure stresses in subsurface geological formations.

The new patent is a result of McCaslin’s work with the rock burst program at the U. S. Bureau of Mines Spokane Mining Research Laboratory. Since 1955 he has spent summers working on this program. He helped to install the first seismograph station at the Tech in 1965, followed by a second station at the Lucky Friday mine.

Rock bursts, McCaslin goes on to explain, are peculiar to the Coeur D’Alene mining area because the rock in that mining district is in a highly stressed environment. A rock burst, according to the Tech professor, “is somewhat like cracking a nut with a pair of pliers. A peanut will bend and give and usually cracks into two pieces. A hard-shelled pea can be between the jaws of the pliers and you may have to use both hands, which exerts a greater pressure on the shell than the human hand even when it does break it literally explodes. So it is with the solid rock in the Coeur D’Alene area. After an area is mined out the stresses build up until they exceed the strength of the rock and, like the pea, it explodes, displacing thousands of tons of rock.”

Like earthquakes, notes McCaslin, rock bursts come in all sizes. Over the years, he says, some have been strong enough to be recorded at the seismograph station on the Tech campus. He points out that when rock bursts occur in an area that has been mined, miners can be injured or killed, and in some cases many miners are involved, the U. S. Bureau of Mines is concerned. Borehole deformation gauges are only small part of the instrumentation used to measure stresses underground in an effort to prevent these rock explosions.

“Eventually,” says McCaslin, “a way will be found to predict when a burst is about to occur and evacuate all personnel or, even better, to relieve the stresses by drilling or blasting and eliminate rock bursts entirely.”

McCaslin is excited about the work he has done on the rock bursts study and his patented device and finds his employment in the mineral industry a fascinating occupation. “It is rather tragic,” he observes, “that many of our young people who are interested in science, engineering and research do not investigate the very interesting problems relating to the solution of the mineral industries. It is difficult to convince those who have never been on a mining industry activities that moving rock out of a hole in the ground and through a mill to recover valuable and needed minerals could be very interesting compared to, for example, the glamorous aerospace and nuclear fields.”

Before coming to Montana Tech, McCaslin worked as a flight test research engineer on B-47 and B-52 airplanes for Boeing. He also spent a summer at the Mannd Spacecraft Center in钱德勒 studying a lunar orbiter and was at the Mercury, New, test site to observe the detonation of an atomic bomb.

In conclusion, McCaslin encourages students interested in mining industry to attend Montana Tech and take advantage of the fine programs available in these areas. He believes the work in these fields is highly satisfying and says, “I have found mining research to be a very interesting and rewarding experience. After all, if your work is part of a program that eventually results in saving the life of just one miner, what more can you ask? I am proud to be a part of it.”

McGovern Leads In Tech’s Opinion

Senator George S. McGovern defeated President Nixon in the Montana Tech straw vote conducted during the student body primary in April. McGovern was the choice of 31% of the 379 students casting ballots. Nixon gained support from 26%, while George Wallace finished third with 10%. Eight per cent of the students were either undecided or had no preference. Hubert Humphrey was a poor fourth with 4%.

The statistic that should worry party “pols” is the 34% who declared themselves as independents, not wishing to be associated with either of the two major parties. Forty-two per cent declared they were Democrats, while only 16% claimed affiliation with the Republican Party.

The overall numerical results were:

George S. McGovern—115
Richard M. Nixon—97
George Wallace—38
Robert Humphrey—25

Among Democrats, McGov- ern defeated Humphrey 71 to 20.

Among Republicans, Nixon defeated Wallace 47 to 5.

For the Ladies

Woman’s Day will be held May 21st this year. At a tea held in the Student Union Building, various women students will be honored. Scholarship winners will be introduced along with the new AWS, WRA, Spur members and officers. Intro-duced will be new class of officers and queens and prin-cesses.
For Good (b)Reading

Reading lists for students interested in literature are being prepared by the English faculty.

Two have been finished. A list of good British novels has been prepared by Dr. McGuire and Professor Taylor, and is available in Main III. A more general list of good books has been prepared by Professor Cooper and is available from him.

Present plans call for two more lists this spring: American Civilization and Continental Novels.

These lists are intended for private reading by students concerned with taking a greater part in their own education and to supplement the limited offerings of the department.

Dr. Urey Plans to Give Tech Moon Talk Saturday

The public is invited to a presentation May 17 by Nobel Prize winner Dr. Harold C. Urey. One of the principal investigators on moon rocks, Dr. Urey will give "A Review of the Evidence in Regard to the Origin and History of the Moon." His talk will be at 8 p.m. in the auditorium of the Library-Museum Building on the Montana Tech campus.

His lecture is sponsored by the American Chemical Society.

Urey, who is a professor emeritus in chemistry at Chicago University and the University of California in San Diego, received the Nobel Prize in Chemistry in 1934 for his discovery of deuterium, an iso-tope of hydrogen, and heavy water.

Since 1918, Urey has been employed as a chemist in industrial positions and as a chemistry professor. His special fields of interest included measurement of paleotemperatures; chemical problems of the origin of the earth, meteorites, moon, and solar system, and the origin of life.

Current to date, Urey is a consultant to NASA, Lunar Sciences, Washington, D.C., Lunar and Planetary Missions Board and Mars Project; the Manned Spacecraft Center, Houston, and the Jet Propulsion Laboratory, Pasadena.

Urey is an alumnus of the University of Montana. He received his B.S. from that institution in 1917 in zoology with a minor in chemistry. In 1923 he received his Ph.D. in chemistry from the University of California at Berkeley. Between 1923-24 Urey was an American-Scandinavian Foundation Fellow at the Niels Bohr Institute for Theoretical Physics in Copenhagen.

In addition to his usual work with moon rocks, Urey has a unique hobby. He raises Cymbidium and Cattleya Orchids.

Tech Students Vie for Votes

Several Montana Tech students are standing for election in the County primary on June 6th. Of the nine aspirants to the Democratic Party County Central Committee, two are incumbents: Mary Ann Carling in precinct 10, and Gary Coombs in precinct 20.

Bill Bottroff, a freshman general student is up for election in precinct 3, in Centerville.

Joe Fontana a junior majoring in history, is running in precinct 14.

Kris Williams, also a junior in history, is running for precinct committeewoman in precinct 16.

Rose Carullo, a sophomore majoring in English, is running in precinct 20.

Wayne O'Brien, a junior student, stands for election in precinct 33.

John Serich, a sophomore general student, runs in precinct 35.

Richard Rolando, another sophomore general student, hopes to be precinct committeeman in precinct 37.

All the students support Senator George S. McGovern for President, and if they are elected will help select a slate of pro-McGovern delegates to the state convention in Helena where Montana will decide how it will vote at the National Democratic convention in Miami Beach.

Sophomores keep M-Day clean.

Tech Needs More Students in Mineral-Engineering Fields

Concern over a decline in graduates in mineral-engineering career fields throughout the country has prompted two foundations to grant Montana Tech a total of $14,500 to recruit and to provide scholarships for students interested in these fields.

The Minerals Industry Education Foundation has established an annual grant of $4,500 at Montana Tech, $2,500 of which is for incentive scholarships and the remainder of money is to be used for entering freshmen students interested in the fields of mining and mineral processing engineering, beginning in September.

From the Montana Tech Foundation $10,000 has been received. This amount is specified for 40 cash scholarships of $250 each for students, particularly freshmen, with a desire to study geological, metallurgical, mining, processing or mining engineering.

Gustav Stolz Jr., dean of student affairs at Tech, is in the midst of an extensive search for students meeting the qualifications stipulated by these foundations. The potential mineral engineering field graduates must show an average of at least a B average on their high school transcripts and should demonstrate leadership potential, in addition to an intense interest to study in one of the above mentioned areas.

Dean Stolz says a series of telephone calls has begun and letters have been mailed to Montana high school mathematics and science teachers and counselors. Personal contacts are also being made with students who meet the requirements. Interested students may call or write Dean Stolz at Montana Tech in Butte 59701.

The incentive scholarships financed by the Minerals Industry Education Foundation are only for freshmen this year and are on a continuing basis to the freshmen recipients in subsequent years. The Montana Tech Foundation scholarships are primarily for freshmen but also will be available on a limited basis for entering sophomores, junior or senior transfer students.

The Western Interstate Commission for Higher Education (WICHE) Mineral Engineering Student Exchange Program (MESEP) has become useful in these scholarship programs, notes the dean. WICHE is the plan which allows engineering students, mineral engineering in this case, from one participating state to apply for admission in a mineral engineering college in another participating state at resident fees.

Tech is also offering in all mineral engineering career study areas included in this WICHE program.

These men and women who are considering any of the mineral engineering careers are encouraged to take a long, hard look at Montana Tech, according to Dean Stolz. "Our college," he says, "has maintained over the years an outstanding reputation throughout the world as an engineering institution. In the areas of mineral engineering, Tech is where it's at-right on top of the 'Richest Hill on Earth.' Additionally, we offer an excellent background on liberal arts to supplement our mineral engineering program.

"The Montana Tech campus is in the midst of a beautification program. A large number of trees and shrubs are being planted, flower planters are being built and attractive street lights are being installed. The Student Union Building is being enlarged and plans are being finalized for construction of a new classroom building.
Stephens to Coach At Basketball Camp

Montana Tech's head coach, Bob Stephens, has been invited to lecture this summer at Ed McCauley's Basketball Camp in Grand Junction, Colorado.

McCauley's program, which in past years has included such participants as Jerry West, Oscar Robertson, Wes Unseld, Bill Bradley and Sonny Haywood, teaches youngsters how to become better basketball players. The camp is widely recognized for giving young athletes a chance to learn from the pros. It is in its twentieth year of operation.

Stephens will lecture on all phases of basketball but his emphasis will be on shooting. In selecting Coach Stephens, McCauley noted that Tech's son Steve, who is a member of the Montana Tech Orediggers. He, the brochure points out, was the leading scorer in the State of Colorado during his junior and senior years of high school.

Joining Stephens in conducting this summer's program will be basketball greats Sidney Wicks and Jo Jo White. Wicks, 6'9" UCLA All-American, is among the top 15 in scoring with an average of more than 24 points a game and has been selected as a member of the West All-Star Squad. A first-round draft choice of the Portland Trail Blazers, he has exceptional speed and agility for his size and will work with young forwards at the camp.

White, All-American from Kansas and former Olympic star, now guides the Boston Celtics. A three-year veteran averaging 21 points in 1971, he is in the top ten in scoring in the NBA.

So That's How by Tom Quinn

One day a stranger burst upon the scene in a small northern town. He had heard about this place for many years and decided to see if he could help. The stranger did not like the way things looked.

He waited a while and tried to make things work out, but they didn't. Now, as much as he hated to do it, he had to use his other method. The first thing he did was send away the people on the hill to a far away place which was very hot and infested with arachnids. After that was done, he walked down the street, pointed his finger at a group of buildings and let them go up in smoke.

The stranger was not heard of again until two months later when he visited a neighboring town and pointed his finger at it. He was not an evil man. He was just doing what he was sent to do. As for the people that stayed, they were rewarded with a new pair of Levi's.

Begins, Again, Against Alumni Football, Slightly Out of Season

"Spring practice is progressing well," reports Bob Riley, head football coach of the Montana Tech Orediggers. "Defensively, the coach continues, "we've started with the basic defenses and we're going through a teaching process. Right now we're interested in assignments and technique rather than putting together our whole defense scheme."

In speaking of personnel, Riley says the staff thinks Junior Chris Showers is maturing into an excellent quarterback. He has two years of solid experience behind him now.

Among the other members of the offensive team, fullback Nick Ostberg is commended for his powerful running and persistence in performing well at his position, along with newcomer Mike Cope who is fitting well into the defensive plan.

Riley expresses pleasure over the achievements of Dick Streiter who was moved this spring from offense to defense. "He's doing a fine job," according to the coach.

Mark Ervin also was moved from offense to the defensive line as are Matt Anderson and Johnny Mccook, also his original practice routine which indicated the students would like to have the courts ready for the spring game May 20.

Court Paved With Silver

It won't be long before Montana Tech will have newly surfaced tennis courts ready for avid players who come out with the warm weather.

Roy Silver of Rite-Way Asphalt has donated to Tech time, manpower and materials to resurface the courts which have been in bad shape for several years.

Says Tech's student body president Joe Holland, "We are very grateful for Mr. Silver's generosity in offering to work. If we had to pay for it, the cost would be near $4,000."

The plans came about, Holland explained, because of a student poll early this year which indicated the students would like to have the courts in working order.

During M-Day about 40 sophomores, seniors, and faculty members spend about three and one-half hours getting the courts in shape for the repaving. Holland says the asphalt probably will be laid next Tuesday or Wednesday, depending on the weather.

It then will be the students' job to measure and paint the lines on the courts.

Holland says he's not sure yet when the tennis courts will be ready for use, but it will be soon. The Tech Student Council, he notes, has indicated that one of the remaining tasks to be funded before the end of the year is nets and equipment for the tennis courts.

Biology Club Visits Sheep

Last month the Biology Club went to the Gallatin Canyon Big Horn Sheep Range. Numerous Big Horn sheep, moose, elk, antelope and deer were viewed by members of the Biology Club and their guests. Slides of the Gallatin Elk were shown to the group by a game biologist.

Biology Club officers are president, Bob Chatriand, vice-president, Darrell Sacht, and secretary-treasurer, Bill Peterson. New officers will be elected at the end of May. Dues is $1.00 per semester.

Juniors tell it on the mountain, M-Day