THE ANNIVERSARY ISSUE celebrates the seventy-fifth birthday of Montana College of Mineral Science and Technology. Although the college (then Montana State School of Mines) did not open its doors until September 11, 1900, legislation for the establishment of the school dates to 1893. Above is the original building, Main Hall, as it was being constructed about 1899. The first class paid no tuition, or $25.00 if from out-of-state, and had a choice of two courses: mining and electrical engineering. The faculty consisted of five men. In 1907, the legislature appropriated $20,000 for a new heating plant and an additional building to be used for ore-dressing and metallurgy. Main Hall contained offices, labs, drawing rooms for all departments. Below is architect Walter Hinick's vision of the campus of the future. This is symbolic of the spirit of progress that has been part of the college through most of its seventy-five year history. The next seventy-five years can be momentous ones for this institution as well as for the world in which it can play an important part.
Dr. Walter R. Hibbard, Jr., internationally known metallurgical engineer, and former Director of the United Nations Materials Advisory Board, will be the commencement speaker May 29 at Montana Tech.

Mr. Hetherington received his bachelors degree in 1928 in metallurgical engineering from the University of Montana. He also holds an honorary Doctor of Science degree from the University of Montana.

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Nine to receive honorary professional degrees

Dr. Frank Aplan
Leifer wins
Gold Medal Award

Jim Leifer, a senior majoring in petroleum engineering, from St. John, Washington, has been selected by the Montana Society of Engineers to receive its Gold Medal Award. The winner of the award is always a member of the graduating class, who, by the combined judgment of faculty, juniors, seniors and the award committee of the Montana Society of Engineers, stands highest in integrity, scholarship and engineering promise. It is considered the highest award given to a Tech senior.

Dr. Fredrick Hames
Booster aims

In a recent interview, Bob Boulter, president of the Tech Boosters Club, stated the efforts and goals of the newly formed organization. At this writing, there are 375 regular members and 100 Century Club and goals as they were enumerated in the Tech Boosters.

Dr. William Levandowski
ana. His B.S. was earned here in 1960 in Geology Engineering. He earned his M.S. and Ph. D. in Mineralogy at the University He and his wife, Martha Midlik, of Michigan in 1962 and 1964, have two daughters. He is active in the American Association of Petroleum Geologists, Geological Society of America, Geological Society of America, states. He was named to Who’s Who in the Mining in 1968. The General Manager of Western Smelting and Refining Salt Lake City is a graduate of 1940 in Metallurgy Engineering. He is K. DeAlley Loughridge and has worked for Western Smelting for twenty-three years. Married to the former Alice Sullivan, they have three children. He is active in the Youth Activities of his community and a member of American Institute of Mining and Metallurgical Engineers. Stanley Granville Olson is married to the former June

Dr. William Levandowski

Stanley Olson

1948. Since that time he has been employed by Continental Oil Co. He is a member of AIME, CIM, and a director of the B. C. Division, Canadian Petroleum Association. Robert Henderson Ramsey received his Master’s degree from MSM in 1934 in Metallurgy Engineering. He is presently

Executive Vice President of St. Joseph Lead Company of New York. He is married to Vera Volkert Ramsey and they have two children. The author of approximately 150 articles or papers dealing generally with mining or metallurgical operations, he was given the Distinguished Service Citation from the University of Wisconsin in 1966. He is an active member of AIME, Mining Club of New York, Mining and Metallurgical Society, and the University Club of New York.

Dr. Frank Aplan

At the 1968 commencement of Montana College of Mineral Science and Technology, nine Honorary Professional Degrees will be awarded. The former students and graduates to be so honored are as follows alphabetically: Frank Aplan, Robert Corbett, Douglas Fuertes, Frederick Hames, Harold Lake, Donald Levandowski, K. DeAlley Loughridge, Stanley Olson, Robert Ramsey.

Mr. Frank F. Aplan is Professor and Head of the Department of Mineral Preparation at the Pennsylvania State University. He received his Masters Degree from M.S.M. in 1936. He later earned his Sc. D. in Mineral Engineering from M.I.T. in Cambridge, Massachusetts. He is married to the former Clare M. Donaghey and has three children. He is a member of the American Chemical Society, Sigma Xi, and chairman of AIME.

Mr. Robert P. Corbett resides here in Butte with his wife, the former Dorothy Ross and their two sons. He received his Bachelors Degree in Metallurgy in 1948 and since that time has been employed by the Anaconda Company as a member of A.I.M.E. and the Montana Society of Engineers. He is also active in the Butte Rotary Club. Having received his Masters degree in 1956, Douglas W. Fuertes is now a Professor of Metallurgy at the University of California in Berkeley. He is married to Margaret Pellet Fuertes and they have three children. He is a registered professional engineer in the State of California and a member of A.I.M.E., the American Chemical Society, Sigma Xi, and National Academy of Sciences.

Frederick Arthur Hames attended MSM from 1939 to 1940 to receive his Bachelor’s Degree. From here he continued his education at the University of New York, Mining and Metallurgical Engineering, and the Montana Society of Engineers. He is now a member of AIME, CIM, and a director of Eldorado Mining and Refining Limited in Edmonton, Alberta. He married Ruth Edna McDonald and they have two children. He was honored with the Centennial Medal in 1948 and the Centennial Medal in 1968.Active in several organizations, he is President-elect of Saskatchewan Mining Association and Director of Alberta and North-West Chamber of Mines.

Donald William Levandowski is now an Associate Professor of Geosciences at the Purdue University, at Lafayette, Indiana.

Harold Lake

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Dr. William Levandowski

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BOND'S EYE VIEW

Ernest Bond

The end of another term. Another step forward for those who love intelligence, reason, and ability. A step off the path for those who prefer to remain in the world from whence they came—a place to which there is no return. Once exposed to intelligence and the use of it, you cannot go into or return to the world of the past without breaking your spirit, because you have found that the difference between man and other animals in the human brain, or rather, the use of it, there are places to go, things to do, and people to know. The world beckons to you now, and says, “make something of me, and mold me into the shape and form of your highest dreams.” The world says, “Come in a fitting monument to those who will teach you as one of their ancestors. Destroy me and you will have nothing—not one to appreciate the great work you have done.”

You should know now that you are attending this school as a distinct individual, unique in your own right, to be able to rise above yourself to achieve your fondest dream. If you do not leave here as an individual, you will never be known or appreciated. Think of your own thoughts—not those given to you by politicians, hippies, ethnic groups, or anyone else. Be yourself, and be proud of this and your intelligence and abilities. Become a slave to no man, and allow no one to be a slave to you.

A phrase has been coined “From each according to his ability, to each according to his need.” A noble thought—but by whose standards? It is this philosophy which has killed the love of one’s ability. It has ruined grand and great civilizations. It is this phrase which has killed geniuses and retarded science for years. When America began, the prime rule was this, “If you don’t work, you don’t eat.” It made America great. People did not need each other, they needed each other’s ability to survive. And now, more than ever, we need not each other, but the project of each other’s intelligence, him abilities, reason, and good judgment. Being just a people will not stop wars, or create progress. Being just a people does not cure society’s evils, it creates them.

So my friends, whether you are graduating this year of coming back next year or going to other school, remember this: Never lose your own identity. Individuals are the hope of the world that it will not die. Individuals are creative—herds are not. Enjoy and love your intelligence, your abilities, and be proud of your achievements. Use always your best judgment, common sense, and reason, and go ahead and be a happy in your successes—it’s not a sin to be happy.

If you have studied mathematics, you know that it is easier to solve two simultaneous equations with two unknowns, but it is impossible to solve two simultaneous conservations even with only one unknown! ?

Student officers elected

The new student council: (left to right) Miss Satter, student council adviser, Robin Sterrett, delegate, Dan Plazzola, vice-president, Mike Duran, President, Tom Schneider, delegate, and Kay Lear, secretary.

Mike Duran, a junior in engineering science, running on the independent ticket, was elected president of the Montana Tech student body in elections held on M-Day. Duran was declared the winner when he polled a decisive majority of the votes over the other two candidates for the office who represented the two fraternities on campus.

Kaye Lear, also an engineering science major, and also an independent, was elected secretary-treasurer of the A.S.M.T. Also elected on M-Day was Tom Schneider, a candidate for delegate to the Student Council who ran on the Theta Tau ticket.

The offices of vice-president and the other delegate, however, were not filled by the M-Day election. A runoff election was later held because none of the candidates received a majority vote, and the top two candidates of the May 1 elections for those offices ran again. In this runoff election Mike McLaslin, a Sigma Rho candidate, defeated Jim Mischke of Theta Tau for vice-president, and also of Sigma Rho, became the second delegate to the Student Council by defeating John Bennett of Theta Tau.

The students also expressed their disapproval of the present constitution with a new and more generalized one. The A.S.M.T. members voted overwhelmingly for the new constitution with only 20 dissenting votes out of some 280 cast in the selection. It is estimated that 85.3% of the student body took an active part in the election.
Tech graduates students in 5 departments

Graduates from Montana Tech are graduating ten engineers this spring in Anaconda, Montana, Tech. one, Gary Johnson, will go to an engineering firm this spring. Of these ten,

- Colin Taylor.
- Frank Koskimaki, John Sutey, who is working for Shell Oil in Butte, Montana, will go to work for Continental Oil.
- Larry Cortez, Colorado; Larry Pearson, California for State Farm.
- Bill Williams, Curtis Degenhart, and Bill Pierre, are going to work in Casper, Wyoming for Continental Oil.


Petroleum Engineering Department is graduating ten engineers this spring. Of these ten, Gary Johnson, will go to graduate school at Montana Tech.

Engineers going to work for major companies are Ed Nordquist of Anaconda, Montana, who is going to work in Casper, Wyoming for Continental Oil; Gary Carlson also of Anaconda who is going to work for Union Oil Company in Santa Fe Springs, California; Jim Liefer of St. John, Washington, who is going to work for Texaco in Cortez, Colorado; Larry Woodin of Norborne, Missouri, who is working for Shell Oil in Butte, Montana.

Eight engineers will graduate this spring in Geophysical Engineering Science making this the largest class since the degree was first offered. The graduates and their future plans are listed below.

- Two students are graduating in Geophysical Engineering this spring. They are Gary Dunford and Will Goldberg.
- Los Angeles, California: Ken Thobstrom of Anaconda who is working for Getty Oil in Bakersfield, California.
- Engineers from Butte include Terry Angove who will work in Ventura, California for Continental Oil; Frank Koskimaki who has accepted a position with Continental in New Orleans, Louisiana; and John Sutey who will work for Continental Oil in Casper, Wyoming.
- Graduates in Geophysics are Will Goldberg and Gary Dunford.
- Bill Williams, Curt Degenhart, and Bill Pierre.
- Graduates in Mineral Dressing and Metallurgy include Bob Ramsey and Kent McGrew.
- Bill Williams, Curtis Degenhart, and Bill Pierre.
- The Miners had compiled a loss record to win and averaged 48 points a game on their way to the first championship. During the season they averaged 48 points a game on their way to the first championship.
- Bill Williams, Curt Degenhart, and Bill Pierre.
- The seniors in Geophysical Engineering have accepted various jobs with some of the major industrial firms of the United States.
- Clint Degenhart, a Mining engineer from Phillipsburg, Montana, will go to work for the Bear Creek Mining Company in Alaska after graduation. Other graduating seniors in Mining engineering are Bill Williams of Butte who will accept a position with the American Smelting and Refining Company in Idaho; Bill Pierre from Seattle, Washington who will be employed by the Nevada Mines Division of the Kennecott Copper Corporation, and Larry Katcher from Manitoba, Canada who will work for the Anaconda Company here in Butte.
- The seniors in Geological Engineering have accepted various jobs with major firms in the United States, in fact Pete Kundsen and Andy Johnson have signed with the biggest, Knudsen, who hails from Great Falls, Montana, will accept a job with U.S. Atomic Energy Commission at Grand Junction, Colorado, and Johnson currently attends the University of Leeward, Montana has joined the AIME and has become a pilot, Marvin Mitchell, Squawish, British Columbia, has accepted a job with Alvin Mining Company in Aschrott, B.C.
- Mining and Geology graduates. Left to right, Pete Kundsen, Bill Williams, Curt Degenhart, and Bill Pierre.
- Eight engineers will graduate this spring in Mining Engineering and Geological Engineering with a mining option have landed various jobs with some of the major industrial firms of the United States.

- The engineers graduating this spring in Mining Engineering and Geological Engineering with a mining option have landed various jobs with some of the major industrial firms of the United States.

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Hum and Huber chess champions

Tai Hum, a freshman engineering student from Butte, defeated Claude Huber to become Montana Tech’s chess champion. The tournament was held during the E-day festivities here at the school, and according to Frank Yung, it will become an annual event.

The tournament has been named in honor of Dr. Adam Smith, who was an avid chess player himself. Equipment for the tournament, and awards for the winner were provided for from the late Dr. Smith memorial fund. Other participants in the tournament included Claude Huber, second place; Henry Scholz, third and Dan Lester, fourth, with Bob Chew, Gordon Crawford, John Evens, and Bob Mihelich going out.

Asphalt studies in progress here

In cooperation with the Montana State Highway Department and the Bureau of Mines, an investigation has been underway for the past two years at Copper Mountain. Under the leadership of Dr. Keith Enslow to study bonding or adhesion between aggregates (paving rock) and asphalt. The project was funded in cooperation with the United States Geological Survey of a microcalorimeter to measure the energy released in the bonding process. The project is directed by Henry Scholz, graduate student in Mineral Dressing.

Mr. John Cavanaugh, Engineering Science, joined the project in the fall of 1967.

The energy released when aggregate is immersed in asphalt is called the heat of immersion. Energy released in an immersion process is very small and requires special instrumentation to measure quantities which are less than one thousandth of a calorie. The equipment has to be designed to contain the specimens at temperatures above 100 degrees C.

Energy released is detected by an elaborate electromotive thermopile assembly. The resulting signal is fed into a microvoltmeter and on to a recorder. In a typical run, about a half of a gram of aggregate (sandsize) is dropped into 5 grams of test asphalt. The resulting curve produced by the energy released in the bonding of the asphalt to the aggregate enables one to determine which aggregate and asphalts give the best bond. We believe the better the bonding, the better the performance of the paved highway.

Frank Young awards Tai Hum chess trophy as Claude Huber runnerup looks on.

The Amplifier

May 29, 1968

Deferred deferment not to be given to graduate students teaching

Draft deferment not to be given to graduate students teaching

The following Local Board Memorandum No. 93, 4077, issued April 23, 1968, regarding draft deferments does not apply to a man because he is engaged in teaching part-time.

"DIRECTOR"

The Engineers Joint Council has noted that this policy is in compliance with the National Security Council recommendation February 15, 1968, which precludes deferring individuals (other than medical students and other exceptions noted) for reasons of study. Individuals may still be given occupational deferments on an individual basis if their Local Board finds their employment is essential to the national defense because he is engaged in teaching part-time.

"LEWIS B. HERSHEY"

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by Dr. Fred Earl

GEOLOGY FIELD CAMP HAS COLORFUL HISTORY

The Montana Tech has never established a permanent field camp, as many schools do, the camp having been located many different places over the years, always in southwestern Montana. In recent years, its location has frequently been within the upper Gallatin Valley in the Madison Gallatin Ranges some 50 miles south of Bozeman. Here the student will find the techniques he has been taught in the lecture room and the laboratory. The field work includes the study and careful description of rocks in the field; measurement of rock sections and interpretation of environments of past ages as recorded in the rocks; construction of geologic maps using traditional as well as the most modern techniques; and finally construction of structure maps and sections to allow interpretation of the evolution of the local geology. As always, a written report on the work done is required for a final grade.

Every aspect is made to keep the student's expenses for the field camp at a minimum, the group is usually placed at local ranches that provide 'family style' accommodations and meals.

Garrett, Trask, and Eaton engaged in mining research

The graduate students in Mineral Resources at Montana Tech are busy preparing masters thesis on many different phases of research in the mining field. The theses' subjects vary from the utilization of methods of production to ventilation and fill techniques.

One master's project by Chuck Garrett deals with laboratory and field testing of expanding concrete and its effects on the fill support within the mines. Original mixes of this kind were developed to expand a calculated percent to counter the stresses of the wall and the openings around a mine. Instruments used to measure the expansion during setting of the concrete are owned by the school and were supplied by the Bureau of Mines.

Another master's degree by Frank Trask has as its focus the efficiency of copper from Butte ore. When he is finished, this, he believes, will provide data on acid consumption, amount of copper recovery, and effects of alteration in the ore from this area. This will be especially helpful in determining the reserves that are leachable, thus increasing the life of copper production in Butte.

The Oregdenes won conference football championships in 1927 and 1938.

Congratulations Maton Tech ON YOUR 75th YEAR

WILHELM FLOWER SHOP Phone 792-3655
FINLEN FLOWER SHOP Hotel Finkler—Phone 723-2491

Bureau history dates back to 1919

By Uuno M. Sahinen

The Montana Bureau of Mines and Metallurgy was established by the State Legislature in 1919 as a department in the Montana School of Mines and as a part of the State Board of Education. All three agencies have since been united, so it now follows that—The Montana Bureau of Mines and Geology, a department in the Montana College of Mining and Forestry, and the State Board of Education. The first director of the Bureau, appointed by the State Board of Education, was Dr. Charles H. Clapp, then president of the Montana College of Mining and Geology. Dr. Clapp was a geologist, and it is probably through his efforts that the Bureau became established within the University. When he retired from this position, he became the Bureau's geologist, Arthur E. Adam....

...Continued on Page Seven
Nathan R. Leonard, the first president of Montana Tech., was born in Pennsylvania in 1832, the son of a pioneer family devoting much of its time to agriculture. When he was twelve years of age, his parents moved to Iowa, and after attending primary schools there, he entered Kossuth College, where he graduated in 1857. After seven years of teaching at him alma mater, he was elected to the chair of astronomy and mathematics at Iowa State University. In 1887, he became editor and proprietor of the Fort Wayne Daily Gazette. In 1889 he took residence in Butte, and in 1897, after seven years of teaching at him alma mater, he was elected to the chair of astronomy and mathematics at Iowa State University. In 1900 he was elected president of the new institution, the Montana State School of Mines.

Charles Clapp
A position which he held until 1906.
Charles H. Bowman, the second president of Montana Tech., was born in Davenport, Iowa, on November 15, 1873. He received a degree in physics from the State University of Iowa, and became an instructor at that institution. He was a member of the American Institute of Mining and Metallurgical Engineers. He became president of what was then the Montana School of Mines at Butte, and in 1898, he became acting president of the School of Mines in 1918, and in 1919 he was appointed president of the institution. In 1921 he was transferred to Montana State University as acting president.

Francis Thomson
the Royal School of Mines at London and at the Ecole des Mines in Paris.

George Carven
the son of a pioneering family. Mr. Craven possessed all the qualities of the rugged geniality of the old west. His father was the first ordained Methodist Minister in Montana. He was a member of the faculty of the Mines for twenty three years, serving as the fourth president of the institution from 1921 to 1929. He died on July 30, 1936.

Charles Andrew Thomson, the fifth president of the School of Mines was born in London on December 21, 1797. He came to the United States by way of British Columbia, where at the age of sixteen he worked as an apprentice assayer and millman for the Victoria Metallurgical Works. He studied further at Massachusetts Institute of Technology, where he had been a mining engineer and a research executive. He was educated at Cornell University, and received his B. A. in geology in 1918.

Dr. J. R. Van Pelt came to Montana State University, and graduated in 1928 with a B.A. in chemistry. He then entered the University of Illinois at Urbana where he received his Ph. D. in chemistry in 1933. Following graduation he worked as a research chemist for the Hercules Powder Co., Shell Oil Co., Amalgamated Sugar Co., and Atlas Powder Company. In 1937 he became an instructor in chemistry at the University of Tennessee during World War II he attended Michigan College of Mining and Technology where he received degrees of bachelor of science and engineering of mines in 1922. In 1929 he became a professor of geology at Cornell.

In 1951 Dr. Van Pelt left Columbia to assume the duties of the president of the Montana School of Mines where he also served as a representative of the Montana governor on the Western governors mining advisory council. He left Montana Tech in 1956 so that he might assume the duties of the president of the Michigan College of Mining and Technology at Houghton, Michigan.

An April 8, 1967 the appointment of Dr. Edwin G. Koch to the presidency of the Montana School of Mines was announced. Dr. Koch attended primary school in Butte and Missoula.
May 29, 1968
THE AMPLIFIER
Page Nine

One of the first championships to be won by the Orediggers was the baseball championship of 1907.

In the early days of the Montana School of Mines, which at that time was in more direct rivalry with the institutions at Missoula and Bozeman, reference was often made to the school as the "Butte" School of Mines. This tag produced much resentment on the part of Mines students because they felt it inferred that the Mines was unworthy of state authorization. What the Mines students were evidently unaware of is that previous to their school there actually existed a "Butte" School of Mines.

In 1894, two enterprising gentlemen known as Bethune & White, began as a private venture the Butte School of Mines. It is not known who White was, but George E. Bethune was reportedly a mining man of considerable standing. He was also noted as a reliable assayer, a mine operator of sorts, and an assaying. His chief tasks were to assist in the construction of the school, which was located at 11 East Granite, just across the street from the Newman's Bootery beauty salon. For equipment, White's venture came to an end when the "Butte" School of Mines was closed down.

Standing with hat in hand, coated drapably in the Utah sun, Marcus Daly greets Tech students and visitors as they climb Park Street to this famed institution. The monument has stood here as a symbol to all Montanans since June, 1941 when it was moved from its original position in front of the Federal Building on Main Street.

The statue of Marcus Daly, a one-time Copper King, is the work of Augustus Saint-Gaudens. It was unveiled to hundreds early in September of 1907. The approximate cost of the monument was $60,000.

"M" Big Butte not always what it is nowadays

What bright and shining symbol of victory at graduation greets the weary Butte travelers to Butte.

"M" Day began in 1910, when members of the graduating class originated the idea of forming the rough letter "M" from rocks on the hillside. The original letter was 60 feet wide and 90 feet high. The "M" again stands white and gleaming and proud thanks to "M" Day, 1962 was the brightest in the history of the school. Governor Babbcock "turned on the lights" to illuminate one of the largest block letters in the state and the nation.

In addition to designating Butte as a college city, the "M" has the added distinction of changing the color of its lights to fit national holidays and changing its lighted shape to form symbols that symbolize the school's athletic boast a victory.

The "M" stands white, gleaming, they are a symbol of the Bindness that it returns to its recent whitewash, a credit to Butte and the hard-working, always eager Montana Tech students!

Montana's Leading Store for Men and Boys
MONTANA'S LEADING TOGETHER
"M" - Day
111 N Main
PHONE 792-4231

CONGRATULATIONS MONTANA TECH ON YOUR 75TH YEAR FROM TWO GOOD NAMES Newmans Bootery .76 E. PARK PLAZA

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CONGRATULATIONS MONTANA TECH FOR YOUR 7TH ANNIHVERSARY GEO. STEELE COMPANY 42 W. Broadway Butte, Montana Phone 792-4231

FUTURE MAY INCLUDE EXPANDED CAMPUS

Montana Tech's future plans include not only an increase in enrollment but also an expansion of the campus program as well. This building program needed for the additional students would provide ample space for classrooms and laboratories as well as for research which could be carried out in the private research center planned for the west border of the campus.

Walter Hinck, the architect for the expansion program, said that the new plans for the school constitutes an excellent start for the proposed master plan (see front cover).

Some buildings-Main Hall, the engineering building, the mill and metallurgical buildings—would be removed. They would be replaced by an engineering building; mining, geology and mineral dressing building; and a humanities center. The ultra-modern library planned for the campus would be replace upwards of 2,000 students, with space on the lower floor for undergraduates. Research and advanced degrees work would be provided for in one area. The library would have 45,000 square feet of floor space.

Planned for Montana Tech also is a humanities and social studies building, that would house the English, History and Social Studies departments, which is showing a marked enrollment increase at the school. The unit would accommodate classrooms, lecture halls and faculty offices.

It is the hope of all who are interested in a growing, progressing Montana Tech that this expansion plan for the school becomes a successful reality.
Tech off to a slow start

The "Enabling Act" of 1889 which passed the way for the admission of Montana into the Union as a state contained a provision for a donation of public land for the establishment and maintenance of a state school of mines.

Early in the 1890s Governor J. E. Richards appointed a board of commissioners to investigate the possibilities of building the state school of mines. The board visited the Colorado School of Mines and investigated that organization. The board decided that the school should be built and that the presence of mining and the presence of mining the school should be built in Butte.

In 1895 the legislature appointed a building commission and authorized the issuance of bonds, the proceeds of which were to be used for the erection of a school building. Plans were completed in early 1896 and construction began in the spring. The site for the school, which was purchased in 1894, was chosen on the bench at the foot of Big Butte. The plat of ground, 576 by 500 feet was donated by certain public spirited individuals. The building was finished in 1897 and measured 90 feet by 110 feet.

After Main Hall was completed it was sat unused until 1900 because of lack of funds. It is reported that this caused much embarrassment to the citizens of Butte.

Finally, on September 11, 1900 the Montana State School of Mines was officially opened with the admittance of 39 students. The degrees to be awarded were Engineer of Mines (E.M.) and Electrical Engineer (E.E.). No charge for tuition was made to a student who was a bona fide resident of Montana.

The first staff of the college consisted of Nathan R. Leonardi, professor of mathematics; William G. King, professor of chemistry and metallurgy; Abraham N. Winchell, professor of geology; H. E. Kuphal, professor of geology and mineralogy; J. E. Richards, president; and Ray C. Burdis, instructor in draughting and mining engineering.

Mr. Taylor: "Hey, you can't sleep in my class."

Freshman: "I know, because I've been trying for the last half hour."

The School of Mines building was erected in 1896-97. Its exterior dimensions were 94 feet by 110 feet.

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M-Day dawned with sunshine, blue skies and the familiar explosion to signal the start of the festivities.

Work crews were supposed to start their chores promptly at 8:00 A.M., but the preceding night apparently made heavy sleepers of the students. However the crews did finally clean the campus and whitewash the "M" by lunch time. Lunch was served by the Copper Guards on the circle lawn. The Pep Band provided stimulating music to watch the girls by. The coeds were also given their traditional M-Day bath during lunch.

After lunch the seniors held Kangaroo Court. Honored and esteemed judges were Terry Angove, Gary Johnson, Ed Nordquist and John Sutey. Dick Rule was prosecuting attorney and Billy Williams was defending attorney. Due to the partisan judgement of the jury and the clever investigating by the judges and attorneys all accused were found guilty and sentenced accordingly.

The seniors also awarded Professor Stout and Professor Van Matre, plaques for their outstanding service to the college and the class of '68.

After Kangaroo court, Sigma Rho and Theta Tau, played an intra-fraternity softball game. The game was exciting from the start to finish with the Taus rallying in the bottom of the ninth to win 10-9. After the game the two fraternities held a joint meeting to discuss the problems of the day.

M-Day was concluded with a dance sponsored by the Copper Guards in the Copper Lounge from 9-12.

Tech represented at Home Show

Montana Tech was represented in the Home and Sport Show on Sunday, May 12 by a booth of exhibits from several of the school's departments.

The booth, sponsored by the Metals Bank, boasted a 15-foot banner reading, "Montana Tech—Then, Now and Future". The library donated four museum cases containing old pictures of the school to the booth to fit in with our "Then" theme.

A mineral display from the Museum, a miniature model of an oil well from the Petroleum Department, topographical maps from the Montana Bureau of Mines and Geology, and a projector showing slides of activities around the campus contributed to the picture of Tech now.

Tech in the future was presented by an exhibit of architectural drawings of the proposed additions to the school, donated by Professor McGlashan.

A.W.S. and Circle K were responsible for setting up the booth and members of both organizations were on hand during the show to answer questions and to distribute free literature about Montana Tech.
Dean Adami has always been closely associated with the school even after his retirement. He is still active in the alumni association and has held every office possible in the association. He was secretary-treasurer for twenty-five years and is responsible for the founding of alumni sections in eight locations in the United States.

Adami has been the recipient of countless, well deserved awards, honors, and tributes. His most memorable tribute by most everyone who knows him, though, was his honorary degree of Doctor of Philosophy which he received after working. Upon accepting this honor he received a standing ovation from graduating students, guests, and faculty, all of whom, were indebted to this dedicated man.

Upon the retirement of Dean Arthur Adami in 1956, D. Charles McAduiffe was chosen the new and second dean of Montana Tech. Dean McAduiffe taught at MSM for forty-two years. He is a native of Butte and graduate of Butte High School. In 1919, the Dean received an Engineering in Mining degree from Montana School of Mines. And after teaching three years at Butte High School in Butte City, he returned to MSM to teach in September of 1923. Besides teaching engineering drawing and descriptive geometry, the Dean served as athletic director and coach of football, baseball, hockey and basketball. He retired from coaching in 1947, but continued as athletic director and professor until he was named vice-president and dean of the college in 1956.

Long time and devoted teacher, coach, and administrator, McAduiffe, is better known by many as "Mac". Mac is a veteran of World War I, and for his gallantry received the Distinguished Service Cross, the Purple Heart.

Dean McAduiffe now resides in Spokane, Washington.

Dean Stolz presently serves on the District Committee of International Student Organizations to which our responsible and efficient Dean belongs.

Anyone on or off campus, who is acquainted with Dean Stolz, would have to agree that he is indeed qualified for this job and proves it everyday.

The independents were originally organized as the Mav-ericks in October of 1935.

The Miner's Hockey team won championships in 1939 and 1940.

Bureau, Continental Oil to cooperate

Montana Bureau of Mines and Geology at Montana Tech will cooperate with the Uranium Division of Continental Oil Co. in a study of uranium trace element potential of western Montana lignites, according to Dr. S. L. Groff, chief, ground-water and fuels division, MIMAG.

"Lignite beds and sediments containing carbonized plant materials in the intermountain valleys of western Montana have not been studied for their potential as an ore of uranium, vanadium, germanium, thorium and rare earth elements," Groff said.

Dr. Frank Diebold, assistant professor of chemistry, will be the principal investigator of the research project, Groff said.

Ray Martin, Tech student from Butte, will serve as field and laboratory assistant.

Gross said the project will last two or three summers, and will be financed by $3,000 per year from Conoco.

"Lignite beds and sediments containing carbonized plant materials in the intermountain valleys of western Montana have not been studied for their potential as an ore of uranium, vanadium, germanium, thorium and rare earth elements," Gross said.

Congratulations to Montana Tech's 75th anniversary.

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Game ends spring football

Montana Tech's football squad concluded spring practice this week with an inter-squad practice game. The final outcome was the White team 13 and the Copper squad 12.

"The scrimmage went about as anticipated, both offensive units were able to move the football well," remarked Head Football Coach Ray Braun. "We divided the squads evenly and this probably accounted for the final score."

Defensively, linebacker Harry Lebsack and Don Murth, along with defensive end Bob Westermarck, were outstanding for the White team, Braun said. Halfback Mel Brokhus and fullback Steve Rackham performed with spark offensively for the White team, with each scoring a touchdown and Brokhus also kicking the extra points.

On the Copper squad, the offensive line play of John Blumer, Greg Cork and Mac Beaudry was "better than any time we have played to date," Braun said. "Running backs Chuck Roberts, Rick Dale and Ernie Burby did a fine job too."

Quarterbacks Marty Leary and Rick Uren handled each team very well on the ground, Braun said, but there are several areas we must improve. Their outside running game and passing need the most work.

The Oredigger coach said the four weeks of practice have been "excellent." "We've gotten most of the offense accomplished and have been able to evaluate the players so we know what positions they will play this fall," Braun said. "With the present squad and the incoming freshman, we hope to have a winning season."


Thirteen awarded athletic scholarships

Thirteen top flight high school athletes have indicated to Coach Ray Braun that they will attend Montana Tech next year. These athletes are the first fully scholastic and athletic scholarship students for the Oredigging.

Several of the scholarship winners are from Butte. They are Dan McGivern, Terry Hennigan, Mike Claxton, Dave Bennett, Bill Brown, Don Davis, and Dan McNair.

Dan McGivern, 6-0, 180 lbs., is an excellent receiver. Coach Braun said he will bolster Tech's passing game.

Mike Claxton, 6-1, 190 lbs., plays guard or tackle and will add balance to a strong line.

Dave Bennett, 5-8, 180 lbs., linebacker and his speed and toughness will make him a good outside linebacker.

Bill Brown, 6-1, 175 lbs., plays defensive end and will probably remain at the same position with the Orediggers.

Don Davis, 5-11, 170, plays inside linebacker and was one of the toughest linebackers in AA football last year.

Dan McNair, 6-0, 190 lbs., is an excellent receiver and should help out at wide receiver or in the slot position.

From Missoula, two excellent prospects, Dan Gilman and John Moe. Gilman was one of the top backs at Montana Tech next fall. Gilman, 5-11, 185, is an all-state AA guard and will get a shot at both offensive guard and defensive end.

Mark Brehm, 6-2, 195 lbs., is a center and has the speed and size to become an offensive center or defensive nose guard.

Also planning to enroll next fall, are Warren Bickford, Clayton Olmstead, Ron Grossecochee, and Bob Defoe.

Warren Bickford, 6-4, 175, started as quarterback for Laurel and will provide balance for the passing game.

Ron Grossecochee, 6-2, 195, is coming to Tech from Chester and has a record as the best running back in the northern part of the state.

Bob Defoe, 6-7, 215, also of Chester, is a tackle and will add much needed size and strength in the line.

Clayton Olmstead, 5-10, 190, was a fullback at Polson, and will be used in this position along with being a linebacker.

With this added depth and new talent Tech will undoubtedly have an excellent year in the Frontier Conference.

MINERS END SEASON

The Montana Tech Orediggers dropped a lone game to the Western Montana College Yellowjackets on Saturday afternoon. Eastern Montana won by scores of 8-1 and 11-0.

Pechovich pitched the first game for Eastern and Brown, Frank and Sullen shared honors in the second contest. John Cohnbey pitched the first game for Tech with Wally O'Connell and John Sutley sharing the pitching duties in the second game.

Eastern thus upped its Frontier Conference record to 5-1 while Tech dropped to a 3-6 record.

INTRAMURALS FINISH

Throughout the year Montana Tech's Athletic Department has conducted Intramural competition in various sports. Within the past few weeks, trophies have been awarded to the athletes who are members of the championship teams. The award winning teams in each sport are:

FOOTBALL - Tapakagebrew, Ed Nordquist, Dick Rule, Gary Carson, Bill Daily, Harry Scholz, Jim Leifer, Phil Nichols, Ken Franklin, Mike Marvinich, Karl Park, Terry Angove, and Mike Duryan.

BASKETBALL - The Flourier科创, Denni Doberty, Jim Ticklen, Dave Wing, Fred Ficklin, Gary Varro, Ed Kavan, and Ron Verbeck.

VOLLEYBALL - Tapakagebrew, Ed Nordquist, Gary Carlson, But McEneny, Jim Leifer, Ron Koeler, Karl Park, and Hank Scholz.

HANDBALL - Singles: Gary O'Farrell; 2nd place - Fred Hoffman. Doubles - Gary O'Farrell and Dan McVeigh; 2nd place - Fred Hoffman and Craig Bartolc.

SEASON REVIEW

The Montana Tech Orediggers wound up the 1968 baseball season with a loss to Western Montana May 8.

The Orediggers began their season on April 3 in two games against Rocky Mountain College. The two teams split the doubleheader with Tech winning the first game 9-4 and losing the second game 11-5.

The following week, April 17, Tech's nine went to B- zwern to face Montana State University Bobcats. The games were swept by the stronger University team by scores of 10-11 and 11-4.

The weekend of April 20, Tech traveled to Northern Montana College and split a doubleheader. The Orediggers took the first game 11-10 and then dropped the second game 9-4. Following this, Montana Tech invaded Tech and took the game by a 7-5 score. The Eastern Yellowjackets then swept a doubleheader on May 4 by scores of 8-1 and 11-0.

The Orediggers ended their season with a 37 overall record and a 3-0 Conference record.
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On its 75th anniversary
for its contribution
to our industry

For the past 75 years, engineers in many fields have left the halls of the Montana College of Mineral Science and Technology to graduate into industry and make their marks worldwide. It is in the spirit of acknowledging its success in the past 75 years that we salute Montana Tech – and wish it even greater success in the coming years.

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