An Associate Degree: What is it?

Twenty-four people are expected to receive Associate Degrees from Montana Tech during the June commencement exercises, according to Mr. Frank Kelly, Registrar of Montana Tech.

The Associate degree program was approved for Montana Tech during the July meeting of the Board of Regents. Basically, the degree was approved for Montana Tech for the five-year program and opportunities for recognition for completing the Associate degree program. Associate degrees allow a student to receive recognition for completing a two-year program.

Associate degrees will give the student who cannot afford four or five year programs an opportunity for a college education.

Degrees are offered in three areas: Associate of Arts; Associate of Science; and Associate of Engineering (Assumption of Science and Engineering). Associate degrees can benefit the individual in many ways, including social and economic as well as the educational.

Normally, the individual’s benefits are derived from the daily interaction between students and faculty. Montana Tech, in particular, offers its students a chance to communicate frequently with the faculty and administration on a one-to-one basis.

Economically, the individual will benefit from his increased education and a higher potential earning power. The broader background and knowledge provided through the Associate degrees will permit the individual a better opportunity to secure more rewarding employment.

The educational opportunities available can be planned so that the individual can take those courses which will help him the most. Each of the three degree programs allows the individual great latitude in planning their programs after the general and specific requirements are met.

General requirements have been established for all the Associate degree programs. Each degree will require a minimum of sixty semester credits. At least thirty credits must be earned as a full-time student at Montana Tech, including the semester in which the work for the degree is completed. A grade point index of 2.0 must be maintained.

More than ten credits of correspondence work will be accepted to fulfill requirements of this degree. Students desiring to receive the Associate degree must file an application with the Registrar before the close of registration in which the work for the degree is expected to be completed.

For the Associate of Arts, the courses necessary include English composition (unless exempt), six credits in science and/or mathematics, and the remaining credits are to reflect a definite approved academic program.

For the Associate of Science, the following is required: English, composition (unless exempt), six credits in science and/or mathematics, and the remaining credits are to reflect a definite approved academic program.

The requirements for an Associate of Engineering include two semesters of inorganic chemistry, quantitative analysis, qualitative analysis, engineering graphics, English composition (unless exempt), two semesters of analytic geometry and calculus, computer orientation, plus six additional credits of mathematics, two credits of physical education, one semester of general physics, plus four additional credits in the humanities or social sciences and the remaining credits to reflect a definite approved engineering program.

EMSM-FM Erects Antenna on Top of Gym

The antenna with which KEMM-FM is expected to begin broadcasting in two weeks was erected on top of the Gymnasium building on the Montana Tech campus on Thursday, April 26. Taylor-McDonnell Construction Company donated the use of their crane and of their men to help KEMM put up the antenna on the 93-foot structure. Students who have been involved with the station for many months as well as those who have only begun to work with the station were busy putting up the tower on the roof of the gymnasium and climbing the wooden ladder there to attach the 40-foot antenna.

The project, lasting almost the entire afternoon, was carried out by nearly a dozen interested people including most of the main governing board of the soon-to-be-operating station.

Mr. Max J. Kennard Commencement Speaker for 96 Students Seeking Degrees

Challenges of the Next Quarter of a Century is the title of the commencement address to be given June 3rd at Montana Tech by Max J. Kennard, Vice-President of the Parson's-Jorden Corporation, New York City.

About 96 students are expected to receive degrees in undergraduate and graduate fields. Four men will be awarded professional degrees and one honorary doctorate will be presented during Tech’s seventy-third commencement exercises.

Kennard received his Bachelor of Science in Metallurgical engineering from the University of Utah in 1924 and his Master of Science in Metallurgical engineering from the same school in 1925.

Kennard’s professional career spans 25 years in the mining and metallurgical industry and has included working on a “bull gang” in a gold mining camp in Montana, as well as executive positions of management in the mining, engineering and construction serving the mining industry.

His career in operating companies covered mining and processing lead, zinc, copper, tungsten and manganese ores and his experience spanned design engineering, maintenance, supervision, operations and management.

As Vice-President and Manager of Business Development for Parson’s-Jorden Corporation, he is engaged in developing and implementing the firms services to the metallurgical industry. His activities as Vice-President have carried him into all of the United States, Canada, Mexico, South America, Australia, Europe and Africa.

Kennard is a member of the American Institute of Mining, Metallurgical and Petroleum Engineers; member of the Mining Metallurgical Society of America; listed in Who’s Who in the West and Who’s Who in Finance and Industry.

YEA SPEECH TEAM

YOU'RE REALLY SPEAKING UP

THE TROPHIES

YEA SPEECH TEAM

YOU'RE REALLY SPEAKING UP

THE TROPHIES
Should Butte Encourage Tourists?

The world Museum of Mining and Hell Roarin’ Gulch broke records again in 1972 with 26,607 people registering. This represents a 51% increase over 1971. The actual visitor total for 1972 is estimated to be at least 40,000 people. 84% of the people registering at the museum in 1972 were from outside of Butte. The average number of tourists registering per day for the summer months was 218, down 2 months by 2 months for 33 days, and for the entire year 77 persons per day.

Top three states for registration were: Montana, 10,667; California, 6,859; and close behind, Washington 2,556 people registering. From information gathered, California people visit generally in the first three months while Montana and Washington people visit the rest of the year.

Keeping these figures in mind realize the benefits tourism does for Butte.

Leta take an average tourist coming into Butte at 4:30 a.m. He should be at a motel by 7:00 a.m. He will call his car with gas, and asks the attendant what there is to see in Butte. The attendant will tell him: the Berkeley Pit, the Copper King Mansion, Mineral Museum at Montana Tech, the World Museum of Mining west of Tech at the old Orphan Girl Mine, if it is summer, the underground mine tour, and the Chamber of Commerce tour car. The attendant will give the tourist a brochure from the World Museum of Mining, which on the inside has a map of Butte with the general streets and points of interest marked on it.

The pit observation platform is a good 20 minute drive from any of the main highway exits into Butte, the tourist will stay at the pit for 10 minutes, check with the Chamber of Commerce and find out what the underground tour starts and make reservations also. He will have the tour guide and get on the tour car. Both the underground tour and the tour car take 1½ hours to take. In between the last two the tourist would find a place to eat lunch. The time is 2:30 and the tourist takes the mansion tour which lasts at least 30 minutes, next the tourist goes to the Mineral Museum at Montana Tech for 30 minutes, then finally he goes to the World Museum of Mining where he spends another 2 hours bringing the time to 5:45 or so and time to eat supper. After eating he will find a place to spend the night. He can go out for a variety of evening entertainments.

And this does all of this in one day if no problems arise in finding every place. This is not usually the case, many tourists wind up in Walkerville or lost on the north side of town while looking for the pit. Others have had time from the World Museum of Mining, usually the tourist lands at Montana Tech or at the stadium. Many tourists come into Butte until the afternoon but can make it up for the next day.

Now let's add up the tourist bill; gas $5.00, lunch $2.00, Copper King Mansion, Tour Car $1.00, supper $3.00, Motel $12.00, mis-

Canadian Receives Wife Scholarship

Appropriately, unknown to the 600 people at the Butte Student body who qualify as married stu-
dents, a $200.00 scholarship was awarded to a Butte student at the February March meeting of the student council. The scholarship was highly recommended by the school's administration, the students and the faculty and was not take into consideration the fact that this other student had given up a house (with colors), a television, gun-slinging, free beer and a room size bed (for the King of course) just for the chance to make $12.00 a month.

Student leaders and rather proud scholar had allowed his wife to take part or at least watch activities as join residence that included free beer and hikes with the Montana kids. These activities given to take part in the organization's missionary making projects. The rest of the qualifications are those set by the schol-

Islamic Ladies at University of California

The people represented here are just a small fraction of the people involved in the summer months while Montana and Washington people visit the rest of the year.

Legal rights and marriage in California for the first time in the state's history. The so-called 'Islamic' ladies or those who practice what is known as the Islamic faith and no longer the Islamic religion are now freed from the long ordeal of trying to get legal rights. The time is 1972 and the 7th of July. The legal rights of the women in the Islamic faith have been won with the help of the California women's rights organization. The Islamic faith has been met with a lot of opposition in the past but with this victory the women of the Islamic faith will now be able to take part in the struggles of the women's rights movement.

The Islamic faith believes in the equality of men and women and the property rights of both sexes. The Islamic faith also believes in the unity of the family and the separation of the sexes. The Islamic faith also believes in the separation of the sexes and the unity of the family.

A Big Cheer For Who Participated

WALK FOR MANKIND

On the occasion of the retirement of Mr. W. Clifford Laity, Chairman of the Division of Arts and Sciences, and of Mr. A. John Smith, Dean of Humanities and Social Sciences, the Division of Arts and Sciences, and the Department of Humanities and Social Sciences, and the Friends of the Library, and has been very active in the American Association for Engineering Education, having served as national secretary of the Social Sciences Division in 1958, national vice-president of the Social Sciences Division in 1959, and president of the English Division in 1959. Mr. W. Clifford Laity, a graduate of the Ford Foundation grant, he undertook a survey of humanities-social sciences education in the schools of our state. This study of the schools of our state was conducted by a member of the faculty of Montana Tech, and by the American Historical Association, Montana Regional Selection Committee for the Teacher Ex-

CETE CLASS ELECTION

In addition to being in charge of all elections for ASMT Officers and student polls authorized by the Election Committee of the AMPLIFIER, the Election Committee shall:

- date of election: April 7, 1974.
- class elections:
  - A) On the Thursday and Friday following the election of ASMT Officers, a formal call for Sophomore, Junior or Senior class office shall be made. Any student registered at the time of the election must have a member of the class seeking office, and the election shall be held in the following Monday.
  - B) The candidate seeking an office in a class shall be a member of that class the following year.
- c) Filing sheets must be in the Tuesday at noon and postmarked by 5:00 PM that afternoon.
- d) The Election Committee Chairman shall post sample ballots in the hallways.
- e) The voting shall take place on the Friday following the beginning of the election procedures.
- f) The following items of the ASMT Election Code shall apply to the election:

Pull-On-Free Horse Diapers

Meeting the need for horse diapers, a new product has been developed. The purpose of the diaper is to protect the horse and rider from the irritation caused by the horse's sweat, urine, and manure. The diaper is made of a special material that is absorbent and dries quickly. The diaper is easy to put on and remove, and can be washed and dried, making it reusable. The diaper is available in various sizes to fit horses of different breeds and sizes. The diaper is recommended for all horses, especially those that sweat excessively or have skin problems. The diaper is designed to fit over the horse's body, covering the region of the horse's tail and udder, and is secured in place with velcro or similar fasteners. The diaper is available in stores specializing in horse supplies, and can be ordered online. The diaper is available in stores specializing in horse supplies, and can be ordered online.

Retirement of Mr. Clifford Laity

Mr. Laity has been a native of Butte, Montana, and has been a graduate of Montana Tech. He has served in various capacities within the University of Virginia, and has also been a member of many professional organizations. Mr. Laity has been a member of the American Historical Association, the Montana Regional Selection Committee for the Teacher Exchange Program, and has served as a judge for Elks Scholarship Awards.

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M-Day...GOOD TIMES

Where's this work crew headed for?

Raking the sidewalk?? Really Elise!!

All monkeys like peanuts.

Preparing for "THE THUNDERING HERD"

Ya mean it's two Dollars! Just for a Keg Ticket?

Refreshments waiting for the work crews to consume.

Everyone knows what is in that car — Huh boys!!

These girls aren't afraid of a little work.

Joris gave the shirt of his back for M-Day.

Election of ASMT officers is part of M-Day too!
Mineral processing is a field of mineral science and technology which has to do with the primary extraction and purification of mineral raw materials derived from the earth's crust.

The need to process mined raw materials arises from the physical and chemical nature of mineral deposits and the economic consequences resulting from the direct mineralurgical use of these materials in their as-mined state. An ore is a very complex and frequently diluted mixture of ore minerals and gangue, and as defined, is a deposit from which metals and non-metallic minerals may be extracted profitably. With few exceptions, mineral deposits cannot be mined and their contents utilized profitably without primary processing to separate and concentrate the economic ore minerals. Mineral processing provides a very necessary technology in assuring the flow of mineral raw materials from mine to consumer.

A cursory examination of man's history indicates that man's material progress is measured by his ability to find and utilize mineral raw materials. Man long ago recognized the need to separate and concentrate valuable ore minerals from waste rock, and the situation has not changed up to the present time. In a minerals hungry world, one finds today a greater need to process mined raw materials than ever before. The impact of mineral processing upon industrial economics is well illustrated in the copper, iron, uranium, potash and phosphate industries.

The scope of mineral processing is diverse, ranging from asbestos to zirconia, from simple to complex ores, from ores containing as little as 0.001% metal to deposits containing in excess of 50% ore mineral, and from plants treating less than 50 to over 100,000 tons of raw material per day. All together, nearly 100 minerals are recovered for industrial use.

The Mineral Processing Engineering Department at Montana Tech is one of only three institutions in the United States specializing in this branch of mineralurgy. Headed by Professor D. W. McGlashan and ably assisted by Professor Gordon Ziesing, the Department has twenty-five undergraduates and two graduate students. Graduates have found work in all phases of mineralurgy, in all parts of the world, in large metropolitan areas and in remote mining communities. Some graduates have become presidents of corporations, while others have entered the research or operation fields. Demand for Tech Mineral Processing Engineering graduates is growing as the scope of the field ever widens to reflect the needs of the Nation and the world as a whole.
Field trips, ghost towns, outdoor classes and several work-shops are all part of the acade-
mic scene planned for Mon-
tana Tech's first summer ses-
sion. The first time in its histo-
y Montana Tech will conduct a full-destructive summer school for two courses were of-
fered during the summer mont-
es. A new grading system will be in-
lit by that foundation. Those
who have been active in the
region, and the Educational Pro-
gram is planned for in 1973. The
full-length book will be re-
presented at the Montana Tech short term student load

Ralph Colvin New FM Program Director

Ralph Colvin, a Montanian and Montana Tech's Program Director for U.S. FM radio broadcasts, has been named Program Director for the new FM program at Montana Tech. Colvin will be responsible for the new FM program's academic and operational success.

Colvin will be responsible for overseeing the planning, production, and distribution of the new FM program at Montana Tech. He will also be responsible for the program's educational goals, policy and operational issues.

Colvin's experience in the FM radio industry includes serving as Program Director for the University of Montana's KUOM-FM and serving as an instructor at Montana Tech.

Colvin's appointment as Program Director for the new FM program at Montana Tech will begin on July 1, 1973.
The Montana Tech varsity football team emerged victorious over the Alumni team in a game in the Alumni Coliseum, April 13, gaining 33 points to the Alumni's 12. The victory was able to overcome the impressive opposition that boated players known as outstanding athletes, such as Don Heiter, Rich Mereith, Gary Jones, Nick Obst, Dan Mahoney and Monte Sever.

The varsity chalked 75 yards in thirteen plays the first time they had the ball. Fullback Larry Ryd from the two and Dan Ruminski kicked the extra point to give the Diggers a 7-0 lead. An Oreg- digger touchdown thrown by Chris Showers was nullified by a penalty after an interference by Dave Young which allowed the varsity to pick up three points at the alumni 31 and set up the pass play.

The varsity led 21-0 at halftime with a pair of touchdowns in the second quarter. Tackle Al Stullworth picked up a fumble and ran 30 yards for a score and tailback Buddy Walsh ran 21 yards into the alumni team territory for a score. The 2nd yard run by Ruminski counted on both plays.

The third period saw the last of the varsity scoring with a 68 yard run by Ryd, making the score 28-0. The alumni came alive in the scoring department, during the fourth period with Monte Sever scoring both touchdowns. Tackle Bob Peterson was quarter back for the alumni team connected 10 of 14 passes for 72 yards. Three of these passes were caught by All-American Don Heiter, who gained 54 yards in receptions and gained five yards in rushing. Severy carried a pair of ball carriers, with 160 yards on 24 carries. Larry Ryd carried 16 times for 70 yards and Monte Sever 18 times for 74 yards.

Two members of the Oregider team missed action, during the game. Running back Austin Mc- Cully and tackle Jim Person has not played in any practice for reasons of injuries. The Montana Tech team will take on Fort Lewis College September 15 for the first game of the season.

Congratulations to Sports Fans for being so aptly, May next year break the running tradition.