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## The Amplifier - v. 5, no. 15

Associated Students of the Montana School of Mines

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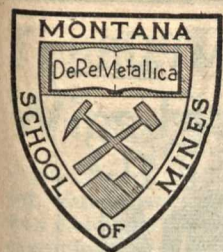
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# AMPLIFIER

## Commencement Exercises June 8

At the commencement exercises June 8, Mr. Clyde E. Weed, chairman of the board of directors of The Anaconda Company, will speak on, "The Engineer's Place in the Nuclear and Space Age."

Other participants in the program will be Reverend O. D. Harris, Shortridge Memorial Christian Church, invocation; Rt. Rev. Msgr. E. J. Riley, presentation of Clyde E. Weed for the Degree of Doctor of Engineering, Honoris Causa; and Reverend Joseph L. Byrne, Immaculate Conception Church, benediction. Dr. E. G. Koch will confer the degrees on the candidates and on Clyde E. Weed.

There are candidates for thirty-eight undergraduate and nine graduate degrees to be awarded by Montana School of Mines at its 59th Commencement on June 8.

The candidates for graduate degrees and their fields of specialization are: David Dahlem, Los Angeles, California, Geological Engineering; Theodore S. Jordan, Butte, Metallurgical Engineering (Mineral Dressing Option); Aurelio Madrazo, Butte, Petroleum Engineering; Gordon R. Parker, Rosebank, South Africa, Metallurgical Engineer; Sidney B. Peyton, Butte, Johan Sikkar, Stockholm, Sweden, Dej Tewtong, Chiengnai, Burma, William Ross Wayment, Butte, and George Wilhelm, Santa Rosa, California, all Mining Engineering.

and the field in which they expect to receive their Bachelor's degrees are:

**Geological Engineering:** James P. Connell, St. Louis, Missouri; Donald R. Corson, Bigfork; Alan R. Kerr, Great Falls; Allen A. Sawitke, Willoughby, Ohio; Peter H. Sweeney, Butte; Robert Tshoff, Butte; Alfred E. Trimble, Eugene, Oregon; Philip A. Van Alstine, Casper, Wyoming; David D. Walker, Butte; Robert P. Wylie, White Sulphur Springs.

**Metallurgical Engineering:** Gary D. Alexander, Mount Vernon, Washington; Curtis F. Bates, Anaconda; William J. Borzick, Butte; David S. Malyevac, Butte; George M. Maxwell, Warm Springs; Carl A. Plate, Butte; Richard W. Roberts, Anchorage, Alaska; Robert L. Trevison, Trail, British Columbia, Jerome A. Yoppa, Waukesha, Wisconsin.

**Metallurgical Engineering (Mineral Dressing Option):** Johannes P. Dreyer, Kawieskroon, South Africa; William H. Painter, Livingston; Albert R. Rule, Butte; Thomas J. Wright, Anaconda; Gordon F. Zeising, Union, New Jersey; Donald E. Zipperian, Great Falls.

**Mining Engineering:** Mohammed A. Mahtab, Sargodha, Pakistan; Albert C. Walkup, Philipsburg; James D. Wallace, Livingston.

**Petroleum Engineering:** Joseph H. Bato, Butte; Gus B. Coolidge, Sunburst; Richard L. Coppage, Redding, California; Richard O. Engebretsen, Cut Bank; John P. Hunter, Calgary, Alberta; Theodore Link, Charlson, North Dakota; Lilburn H. Lueck, Ennis; Richard D. Osterman, Black Eagle; Claud F. Pickard, Miles City; Arthur L. Story, Cut Bank.

## Honors Are Awarded To MSM Students

The second annual honors convocation convened in the Library-Museum Hall Wednesday at 10:15, with Dr. E. G. Koch as host. President Koch began by acknowledging the various gifts and services given to the different departments of the school. The program was then turned over to the various persons presenting awards. Mr. Edward Simonich, Director of Athletics, presented monograms and certificates to the following students: Pete Atkinson, Brad Bilyeu, Cam Brown, Jerry Blake, Dave DelPaggio, John Gardner, Kelly Hemmert, Mike Hines, Bill Tiddy, Mike Keegan, Dan Rovig, Al Walkup, Mel Bennett, Harlan Higginbotham, Bill Lane, Don Mahagin, Ray Martinich, Larry Pavlikowski, Jack Weaver, Bill Thompson, George Bronson, Gus Coolidge, Dick Cornich, Tim Driscoll, Darwin Elkstrom, Ken Erickson, Joe McCarthy, Bob McCarthy, John Schulhauser, Dan Trbovich, Jan Dryer, Manuel Munoz, Sig Johnson, Dick Coppage, Harold Hopeson, Pete Sakellaris, Dart Davis, and James Donovan. He also announced and presented the following awards to the intramural winners with the named persons accepting: Basketball, 1st place—Independents, Don Roberts; 2nd place—Theta Tau, Gus Coolidge. Badminton, singles; 1st—Hamid Raza; 2nd—Manuel Munoz. Bowling, 1st—Bob Laughlin; 2nd—Dave Malyevac. Handball, singles, 1st—Joe McCarthy; 2nd—Bob McCarthy. Table tennis, singles, 1st—Mel Bennett; 2nd—Marvin Hash. Touch football, 1st—Independents, Don Roberts; 2nd—Sigma Rho, Al Walkup. Volleyball, 1st—Sigma Rho, Al Walkup; 2nd—Theta Tau, Gus Coolidge. Weight lifting, 1st—Ed Shumaker; 2nd—John Chor. Softball, 1st—Theta Tau, Gus Coolidge; 2nd—Sigma Rho, Al Walk-

up. The Independents won the Intramural trophy, for scoring the most overall points.

Dr. K. N. McLeod then presented Stephen Keddie with a "Handbook of Chemistry and Physics" for being the most outstanding freshman chemistry student. Dr. Nile announced that the award for the outstanding physics student, a similar award, would not be given until the final grades were in.

Dr. Koch presented the following awards: Cobb Foundation Scholarship, Al Herring and Mike Keegan; Viola Vestal Coulter Scholarship, Don Mahagin; Rotary Club Scholarship, Carl Plate; Gino Diamanti Scholarship, Richard Vincelette, and Daughters of American Colonists Award, Mel Bennett and Suzanne Dunlap.

Dr. C. W. Haynes awarded George Grandy with the American Smelting and Refining Company Scholarship and William Byrne with the American Society for Metals Scholarship. Professor Vine presented Ken Erickson with an American Smelting and Refining Company Scholarship and Robert Utter with the Gardner Denver Company Scholarship. Professor Harnish presented the Billings Section AIME Fellowship to Douglas Wadman, The California Company Scholarship to Marvin Smith, and said that the Continental Oil Company Fellowship of \$3,000 would not be given until all grades were in.

Mrs. J. J. Dougherty of the AIME Women's Auxiliary awarded the Scholarships from that group to Don Roberts and Robert Utter. The Billings Section AIME Paper Awards were made by Professor Stolz to Lilburn Lueck, 1st place, and Dick Osterman, 2nd place. J. J. Dougherty, chairman

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## Mountain Climbing Accident Claims Life of Mines Student



GARY ALEXANDER

### O'Brien and Miller To Receive Degrees

Two professional degrees will be awarded at the 59th Commencement of Montana School of Mines on June 8th. Recipients will be Wallace A. O'Brien, Class of 1923 and Clinton L. Miller, Class of 1947.

Mr. O'Brien of Butte is now Mines Geologist of the Butte area for the Anaconda Company. He was first employed by the company in 1917 as a miner while still a student at Montana School of Mines. From 1920 he served with the company as miner, sampler, surveyor, geologist and Mines Geologist.

He received his degree from Montana School of Mines in 1923. He had attended elementary and secondary schools in Oregon and Montana.

Mr. O'Brien is a member of the Montana Society of Engineers, the National Society of Professional Engineers, the American Institute of Mining, Metallurgical and Petroleum Engineers and is currently serving on the executive committee of the Montana School of Mines Alumni Association. He is also a member of the Butte Chamber of Commerce.

It was his detailed and thorough geologic study of a particular area in Butte which led to the discovery and development of a large body of ore which revived one of the local mines for a period of more than ten years. He is responsible for an early study of the block-caving possibilities in Butte.

Mr. O'Brien will be awarded the professional degree of Geological Engineer.

Mr. Miller received the Degree of Bachelor of Science in Mining Engineering from Montana School of Mines in 1947. He did additional work in civil engineering and in labor relations at the University

Students and faculty were saddened May 17, 1959, to learn of the death of Gary Alexander, senior student in Metallurgy. Mr. Alexander was killed in a mountain-climbing accident near Whitehall, Montana, while in the company of three other mountain-climbing enthusiasts. Force Baney, one of the group was quoted as saying, "Gary had just tried to ascend a 100-foot rock trace and said that the rout looked too difficult. He (Gary) had descended to a position where he was standing on my shoulders. Suddenly I heard the warning 'heads up' which means that either a climber or a rock is falling. I knew that it was a rock but it sounded like a very small one. The next thing that I knew was I was lying on the ground; I had a sore neck and my hard hat was flattened. The rock (600c.) had hit Gary directly on the head and he died instantaneously."

Gary Harper of Butte risked his life in trying to divert the rock and it was his warning that saved the life of Force Baney. Immediately after the accident, seeing that Gary could not be helped, John Sikkar stayed at the scene of the accident while Gary Harper and Force Baney went into Pipestone Hot Springs to summon aid from Whitehall.

Mr. Alexander was born October 20, 1937, at Mount Vernon, Washington. He was a senior in metal-

### MSM Alumnus Named V.P. of Anaconda Co.

Edward I. Renouard, manager of mines in Butte since 1952, was elected vice president in charge of Western operations of The Anaconda Company, effective immediately. He succeeds Chester H. Steele who died May 19.

He was born in Butte on May 31, 1898, the son of the late Mr. and Mrs. Edward Renouard. His father was one of the best known pioneer miners of the camp and served for several years as foreman of the Badger Mine.

The new vice president was first employed by The Anaconda Company as a miner at the Badger Mine in 1914 and worked as a miner and engineer helper while attending Montana School of Mines. He was awarded a mining engineering degree in 1920 and was honored by his alma mater in 1953 with a professional degree, in recognition of his achievements in mining.

of Oklahoma at Norman and New York University, New York.

He is General Superintendent of a major lead-zinc-silver mine owned by the Compania Minera, Aguilar, Juyjuy Province, Argentina. This company is a subsidiary of the St. Joseph Lead Company. From July 1952 to November 1955 he was Mine Superintendent for the Vermont Copper Company, Strafford, Vermont; and from March 1950 to 1952 was Mine Superintendent of the Warren Foundry and Pipe Corporation at Dover, New Jersey.

Mr. Miller has also been employed by the Highland Surprise Consolidated Mining Co., and the Hecla Mining Co., both of Wallace, Idaho.

During 1951-1952 he served as a consulting engineer to Spencer, White and Prentiss, Inc., during

(Continued on page 4)

lurgy and had spent all four years here. He had quite an extensive record in mountain climbing dating back four years. He was a member of The Tacoma Branch of the Seattle Mountaineers and had climbed with John Beckey, the foremost rock climber in the United States. Some of the other well-known mountain climbers with whom he was associated were Frank Colling, Jim Whittaker, and Ira Springer of the Washington mountain ranges. Mr. Alexander had already climbed such mountains as Mt. Rainier, Mt. Olympia, Shucksun, Rashmir Crag, Baker, Hood, and the Cascade Range Peaks. He also climbed to 12,000 feet in an attempted ascent to Granite Peak in Montana. It was the highest ascent in Montana ever recorded during winter conditions.

The funeral and burial was in Walla Walla, Washington, on Thursday morning, May 21. The school's representative was Force Baney who flew to the service.

Gary's family wished to state their heart-felt thanks to the Dean and to those who showed extreme kindness in their time of sorrow and to all who sent flowers.

Gary Alexander's degree will be granted with his class of 1959, posthumously.

## Geologists Attend Convention

The members of the faculty of the Geology Department attended the Rocky Mountain Section of the Geological Society of America convention in Missoula May 14 to 17. Also in attendance were members of the staff of the Montana Bureau of Mines and Geology.

One of the highlights of the convention was a paper concerning "Multiple Glaciation and High-Level Till Deposits in Southwestern Montana," given by Mr. William B. Hall of the Geology Department. Mr. Hall also gave a special showing of his low-angle, oblique-color stereo slides that were shown in a sneak preview here on "E" Day.

Mr. Groff, of the Bureau, gave papers on the Geology of the West Tintic Range, Utah, and on Ground Water in Montana. Mr. Ackerman, also of the Bureau, presented a discussion of scapolization in Beltian argillites in Montana.

The meetings were most interesting and were enjoyed by everyone in attendance. Much favorable comment has been received upon the contributions made by Mines personnel.

## Coming Events

### JUNE—

- 4 No classes
- 6 Exams begin
- 8 COMMENCEMENT
- 12 End of Second Semester

### SEPTEMBER—

- 23 Freshman Placement Exams
- 26 Registration Day
- 28 Class Work Begins



# The Amplifier

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## EDITORIAL

Twenty years from now two hundred and fifty people will have at least one thing in common. They attended the Montana School of Mines in the year 1958-59. It was not quite like any year preceding it nor will it be quite like any year to come. Each year is a little different from the rest. Probably two of the reasons for this are the incidents that occur during the year and the ever-changing character of the classes, organizations, and groups. These two by their very nature are often contiguous.

All in all it has not been a bad year—school spirit is steadily increasing, pre-construction red tape connected with the student union building is about gone, the student council has initiated some needed reforms concerning many phases of the Montana School of Mines, the freshman class has proven itself to be a worthy addition, the Orediggers have done comparatively well in sports, and, as all who attended the last meeting of the outgoing student council know, a bright future is predicted.

On an individual basis, each student is one year closer to his profession. Whether he returns or not, this is one year of his life he will not forget. The School of Mines is a small enough school that one makes a great many lasting friendships. This one fact alone greatly compensates for its lack of social life, as many of the former MSM students who have transferred will tell you.

For those students who have not been away from home before, life at MSM has probably shown them a very different world. Its ultra-casual ways of living, its concentrated studies, and stereotyped opinions all contribute to its peculiar mode of conformity (or conformity to a type of nonconformity). It has brought people into close contact at an age when they first realize the significance of human nature and, although life at MSM by no means typifies society as a whole, it will prove extremely helpful in their relations with others in later years. It is these incidents and friendships that influence an individual's judgment rather than over-all policies of the school.

It is true that MSM has certain qualities that are virtually unchanging and peculiar to it alone. These give it its distinctive character, but still this year has been a little different. I know that I speak for many when I say this has been a good year and I hope we meet again.

### Circle K Club News

At a regular meeting of the Circle K Club, the following were elected to office for the ensuing term:

Bill Burke, president; John Jaksha, vice-president; Jay Thompson, secretary; Francis Lucon, treasurer; Jim O'Brien, Ken Fitzpatrick, Larry Judd, and George Bronson, directors.

Out-going officers for the newly formed club are Ken Fitzpatrick, president; George Bronson, vice-president; Leroy Latimer, secretary; Don Giacomino, treasurer, and John Jaksha, Francis Lucon, Bob Newman, and Jay Thompson, directors.

Recently the group sponsored a successful mixer which was held in the Library-Museum Building, and sold pop at a KOPR Hop held down town. A picnic is scheduled for the near future.

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That Good Spirits prevailed after the Mines-Carroll game.

That thanks to the slip-stick maneuvers of two mineral dressing students and cheers fitting the occasion, the Miners had a terrific pep section.

That the course of Political Science is being taken to heart by certain members of the faculty and student body.

That there's a bug exterminator in the school—watch out, louse!

That Main Hall almost sailed away.

That money flew in the coffee shop.

That the play is going through stages—three of them, in fact.

That new propaganda pamphlets—catalogues — have been distributed.

That, to misquote Hamlet, "There is something rotten in the Mines."

That someone is busy making connections — "Information, please?"

Give me reasons I should bleed;  
 Personally I see no need.  
 So you say you love another—  
 Pardon while relief I smother,

Young Bride: "What will I get, dear, if I cook a dinner like that for you every day?"  
 Husband: "My life insurance."

Grandmother was giving the recent bride a heart-to-heart talk.

"Child, I hope your lot's going to be easier than mine. All my life I've carried two burdens — Pa and the fire. Every time I turn to look at one, the other goes out."

Mother-in-law: A referee with an interest in one of the fighters.

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## To Light 'M' Is Guard Plan

Wednesday night, May 20, was the occasion for the Copper Guard initiation dinner at Howie's Supper Club. During the course of the evening, the new members of the organization were introduced to the assembled past and present Copper Guards.

Mr. John McCaslin, Copper Guard advisor, was the featured speaker of the evening. He spoke on the future plans of the Copper Guards and especially about the upcoming "M" lighting project. Mr. McCaslin outlined the work and expense that would be entailed in the project and submitted a plan as to how the work could be accomplished.

## Record Review

By Lee Johns

It seems as though "Porgy and Bess" has been covered by every artist, ork, and combo available. Now out are LPs featuring Sammy Davis, Jr., Belafonte and Lena Horne, Ralph Burns, and Mundell Lowe and his All-Stars. Other recommended LP fare:

Memories of Popular Operas (George Feyer), Swing Along (Four Lads), The Many Sides of Pat Suzuki, The Keys and I (Eddie Heywood), Jonah Jones at the Embers, Compulsion to Swing (Henri Renne), Look to Your Heart (Sinatra) and Too Soon to Know (Nat "King" Cole). So you can see there is plenty of listening available this summer.

To those of you leaving the Mines this month, our congratulations and also our thanks for the support in trying to keep things swinging. To those returning in September, we hope that next year will be a real swinger. Our thanks to "Little Show Radio" for the added listeners for our "sensible sounds." Till Sep, man, this gig is over. (To the Editors: Thanks.)

## Anderson-Carlise News

On May 14, the Anderson-Carlise Society met and elected the officers for the coming year. Douglas Wadman was elected chairman and Robert Applegate was elected secretary. Plans were discussed for the annual picnic, and a committee was appointed to arrange the plans of the picnic.

On May 19, the Anderson-Carlise was host to a joint meeting with the Montana Chapter of A.I. M.E. Ken Fox spoke on "Recognition of Igneous Rocks from Air Photos"; Don Zipperian spoke on "Separating Solids with Air Bubbles"; Aurelio Madrazo spoke on "Liquid-Density Correlation of Hydrocarbon Systems"; and James Wallace spoke on "Some Ideas on Improving the Efficiency of Underground Drill Haulage." The speeches were followed by discussion and refreshments.

The plural of forget-me-not is forget-us-not.

The first art of being a parent consists of sleeping when the baby isn't looking.

When opportunity knocks at the door some people are out back looking for four-leaf clovers.

Queen Elizabeth was the monarch who sent all her admirals voyagin'; That's why she was known as the Voyagin' Queen.

Chivalry is the act of a man who gives his seat to a lady in a public conveyance.

A mid-wife is someone who goes between a mother and a husband.

The woman who is outspoken will never forgive the woman who outspoke her.

His mother wisely gave him a dose of absence salts.

"Called to the bar" means to go out for a drink.

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## LITTLE MAN ON CAMPUS



"TERM GRADES MUST BE OUT — SOME OF MY STUDENTS AREN'T SPEAKING TO ME TODAY."

## Theta Tau News

On May ninth and tenth, Theta Tau Fraternity held their annual Founder's Day party at the Diamond S Ranch. The party was attended by a great many Taus and their guests.

Though the weather was cool, many of the Taus went swimming in the heated, outdoor pool at the Diamond S. The entertainment for the day was supplied by Regent Harvey Hanna and Gus Coolidge, who put on a water show that many thought to be the funniest they had ever seen.

There was a late dinner and an evening of dancing.

## Academy Appointment Through Civil Service

Senator Mike Mansfield has announced that the Civil Service Commission will conduct an examination for designation to the U. S. Military, Naval, Air Force and Merchant Marine Academies on July 13, 1959.

Senator Mansfield requires that all boys interested in the academies take the competitive civil service examination, and on the basis of the grades made therein, his selections are made. Therefore, any boy who is interested in an appointment to one of the academies in 1960 should notify Senator Mansfield prior to June 15th so that the necessary arrangements can be made for him to take the civil service examination. This will be the only civil service examination held for appointments in 1959.

All necessary details regarding the examination and qualifications necessary for entrance into the academies will be sent by Senator Mansfield immediately upon receipt of any application which he receives. All individuals should write to Senator Mansfield, at Room 6241, New Senate Office Building, Washington, D. C. for their forms.

The civil service examination will be held in the following places in Montana:

Billings, Bozeman, Butte, Deer Lodge, Dillon, Glasgow, Glendive, Great Falls, Harlowton, Havre, Helena, Kalispell, Lewistown, Libby, Livingston, Malta, Miles City, Missoula, Plentywood, Poplar, Shelby, Sidney, Thompson Falls.

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## A.W.S. Attend Convention

May 15 was the occasion for the Associated Women Students convention held in Bozeman at the state college. Representing MSM were Sandy McGonigle, president of Mines branch; Suzanne Dunlap, secretary-treasurer, and Judy Delmoe, delegate.

An informal, no-host dinner was held in the Bozeman student union building and, immediately following the dinner, the women met upstairs in one of the convention rooms. The primary purpose of the meeting was to help the women students from the Eastern College of Education at Billings to form a branch of the A.W.S. Suggestions were given as to ideas for A.W.S. sponsored functions, forms for constitutions, and ways to finance their projects.

Also discussed was the possibility of holding the next annual meeting of the A.W.S. in Butte. This will probably be next fall.

## Golf Meet Held

The Montana Collegiate Conference golf meet was held at the Butte Country Club on May 15 and 16. Francisco Perez of Carroll College was the winner with a low score of 165 for 36 holes. Russ Fisk of Western was second with a score of 173, and Dick Thompson of Eastern was third with 183.

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## Tennis Team Wins Handily

The Miners' tennis team of Manuel Munoz and Johannes Dreyer won both the singles and doubles championships of the Montana Collegiate Conference in Dillon on May 16. Munoz competed in the singles and won every set handily during the competition. The former Chilean champion won the final match by defeating Doug Neibauer of Eastern by a score of 6-0, 6-0.

Munoz teamed with Dreyer in the doubles and again the Miners experienced little difficulty in winning the title. In the match for the championship, Munoz and Dreyer defeated Western's Ed House and Jerry Selvig, 6-3, 6-2. Dreyer took second in competition last year in the doubles. Although tennis is a minor sport at the School of Mines, the boys win varsity letters because of their very fine showing.

## Track Team Does Well

The Orediggers' track team showed well in competition during the Montana Collegiate Conference track meet, and all the participants placed. Hopewell tied for second in the pole vault and placed fourth in the 220. Coppage picked up a third in the 440, and the relay team took second. The relay team was composed of Blake, Johnson, Sakellaris, and Hopewell. By placing in the championship meet, all the participants will receive varsity letters.

Western won the meet handily over the nearest opponent, Rocky Mountain College of Billings. Western has now won the championship in 11 of the last 12 years. No records were broken because of miserable weather conditions that existed.

### Baseball Statistics

Player	AB	H	Pct
Trbovich	23	3	.125
Mahagin	22	8	.363
Donovan	20	10	.500
Crnich	27	8	.296
Martinich	24	4	.167
Schulhauser	9	2	.222
Bronson	18	4	.222
Erickson	20	3	.150
Hines	19	4	.211
Coolidge	6	2	.333
J. McCarthy	2	0	.000
Ekstrom	10	3	.300
B. McCarthy	10	4	.400
Driscoll	2	0	.000
Brown	2	0	.000

The hard-working secretary was telling about the great volume of letters she had been writing lately. "I handled so many letters yesterday that last night I finished my prayers with 'Yours very truly'."

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## Miners Rout Carroll, 10-3

Playing their best game of the season, the Orediggers' baseball team defeated Carroll College by a score of 10-3 at Duggan Memorial Park on May 15. This was an elimination game to see who would play for the championship in the afternoon. This win by the Orediggers gave them an edge over the Carroll team during the season. This was the second win against one loss against Carroll this season.

Carroll had reached the playoffs by defeating Northern in an elimination game. The Mines did not have to have a playoff because of the way the districts are set up in the conference.

Jim Donovan led the Miners assault on the Carroll pitchers by collecting a single, double, and triple. He also scored three runs. Dick Crnich contributed a single and a triple for the winners. This was the Miners best game of the season, and the fielding was exceptional, both in the infield and the outfield.

Darwin Ekstrom pitched the best game of the season for the Mines, and he went the full distance. He struck out nine and was never in trouble, because of the fine backing he was given by his teammates. Stanway was the losing pitcher for the Saints.

Mines box score:

	AB	H	R
Bronson	5	2	1
Mahagin	4	0	1
Donovan	4	3	3
Crnich	4	2	1
Erickson	4	0	0
Trbovich	4	0	2
Martinich	4	0	0
Hines	4	1	1
Ekstrom	4	1	1



MANUEL MUNOZ

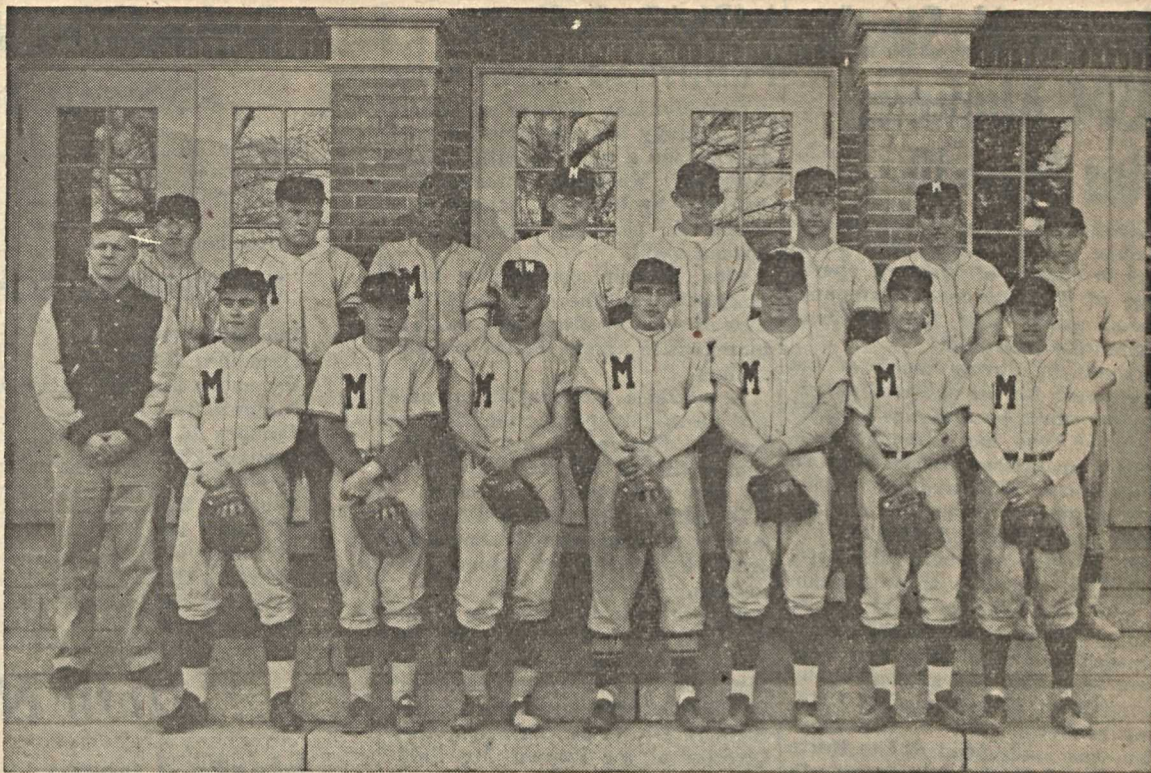
## Munoz Is Tennis Champion

The School of Mines is fortunate this year in having one of South America's best tennis players in the person of Manuel Munoz. Manuel won the Chilean Junior Championship in 1953, and he took second in the South American Championship in 1954. The person who beat Manuel for the championship was Manuel Fernandez, who went on to win the Wimbledon Junior Title in the same year.

Manuel played well for the School of Mines this year, winning easily during the season and also winning the championship of the Montana Collegiate Conference. He defeated Doug Neibauer of Eastern for the championship without losing a game. Because of his win, Manuel is entitled to compete in the national NAIA tournament at Charleston, Illinois, on June 10. The sponsoring college will be Eastern Illinois University of Charleston.

Then there's the story about the mule that fell into a deep, dark pit and broke three fingers yelling for help.

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 Charcoal Broiled Steaks  
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1959 OREDIGGER BASEBALL TEAM. From left to right, front row: Ken Erickson, John Schulhauser, Tom Parrick, Dan Trbovich, Ken Brown, George Brownson, Joe McCarthy, Dick Banghart, manager. Back row: Ed Schumaker, Dick Crnich, Mike Hines, Tim Driscoll, Don Mahagin, Ray Martinich, Bob McCarthy, Larry Katcher. Missing when picture was taken: Jim Donovan, Darwin Ekstrom, Gus Coolidge, John Cesserini.

## Miners Lose Slugfest, 15-9

The School of Mines lost the championship to the Western Bulldogs of Dillon by a score of 15-9. The contest saw numerous errors and some very hard hitting by both teams.

Dillon reached the finals by tying Eastern Montana College of Billings 8-8. A flip of the coin decided the winner. The Orediggers defeated the Carroll College Saints by a 10-3 score to advance to the championship round. Western was the defending champion from last year.

The game started out as a pitcher's duel, and continued as one until the sixth inning when the Miners' defense broke down. At the time the score was 3-3, and the game had been well played. Then numerous errors and a couple of hits chased starting pitcher Ken Erickson. Tim Driscoll and Tom Parrick followed Erickson to the mound, and they had an equal amount of trouble because of the errors. The Miners haved themselves from a complete rout by scoring six runs in the ninth inning.

Both teams collected several hits, with the Orediggers getting 12 hits. Jim Donovan matched his morning total with three more hits. Ray Martinich broke out of a slump and collected three hits al-

so. Bob McCarthy and Dick Crnich each collected a pair of hits for the Mines.

The Miners made two fine double plays in the first two innings, and their fielding was exceptionally sharp until the sixth. Time was called several times during the game because of wind and dust. By losing this game the Orediggers placed second in the Montana Collegiate Conference.

## Weightlifting Champions

The weightlifting champions for this year are two freshmen. They will both receive medals for their achievements. Edward Schumaker (144 lbs.) took first place with a 150-lb. press, a 140-lb. snatch, and a 170-lb. clean and jerk. This gave him a 3.23 performance index. Second place went to John Chor. His performances included a 145-lb. press, 150-lb. snatch, and a 180-lb. clean and jerk for a performance index of 2.99.

Famous last words: "Hell, they don't flunk seniors!"

Compliments of  
**PEPSI COLA**  
**BOTTLERS**  
 BUTTE, MONTANA

Miners box score:

	AB	H	R
Bronson	4	0	0
Mahagin	4	1	0
Donovan	4	3	2
Crnich	5	2	1
B. McCarthy	5	2	1
Trbovich	4	0	0
Martinich	4	3	0
Hines	4	0	0
Erickson	3	0	1
Driscoll	1	0	0
Shumaker	0	0	1
Schulhauser	0	0	1
J. McCarthy	1	0	1
Coolidge	1	1	1
Brown	1	0	0
Parrick	0	0	0

Chuck Richards Remo Rochelle  
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**STORE**  
 Montana Institution

**Know Butte . . .**

**ANACONDA REDUCTION WORKS**

Anaconda, known the world over as the "Smelter City", was founded in 1883 by Marcus Daly.

He first built, what became known as the Upper Works, on the north side of Warm Springs Creek, near Anaconda, in 1883 to handle Butte ores. The plant was designed to treat 500 tons of ore daily. It consisted of concentrator, hand roasters and small reverberatory matte furnaces. The works went into operation in September, 1884.

The plant was reconstructed in 1886, when steam stamps were substituted for crushers and rolls in the concentrators. These changes increased the capacity of the works to 1,000 tons daily. They included the Bruckner roasting furnaces, a marked improvement over the old hand roasters.

As the mines increased their output more smelting capacity became necessary so in 1887 construction of the Lower Works at Anaconda was begun. They were just east of the first plant. Because of construction delay and a severe fire, the plant did not get into full, continuous operation until 1889. These works handled 3,000 tons a day, giving the combined plants a 4,000-ton capacity.

These plants were used until the present Reduction Works went into operation in 1902.

**THE ANACONDA COMPANY**



# Chester H. Steele, MSM Alumnus, Dies May 19

Chester H. Steele, 65, distinguished geologist and vice president in charge of Western operations of The Anaconda Company, passed away May 19 at Butte Community Hospital.

Prominent during much of his long career for his outstanding geological work, he also was an able executive who had directed Anaconda's operations in the western states since 1952 and an active civic worker on behalf of his home community and state.

Mr. Steele was born in Portland, Ore., April 5, 1894, the son of the late Charles and Flora Steele. He was graduated from Montana School of Mines in 1916 when he joined the geological department of The Anaconda Company in Butte.

He was made head of the Butte mines geological department in January, 1948, and advanced from that position to general manager of western operations four years later.

Mr. Steele had received many honors. His alma mater accorded him the honorary professional degree of geological engineer in 1940. He was frequently called upon to preside at sessions of national mining conventions or to appear on the programs, and this year he had been appointed national program committee chairman for the American Mining Congress meeting in Denver next September.

He had been president of the Montana Society of Engineers and chairman of the Montana section of the American Institute of Mining, Metallurgical and Petroleum Engineers. He also was a member of the Society of Economic Geologists.

In addition to being vice president of The Anaconda Company, he was vice president of the Butte, Anaconda and Pacific Railway, president of Kenwood Realty Co., and vice president of the Interstate Lumber Co., and Montana Hardware Co. He was a director of the Montana Power Co., Metals Bank and Trust Co., Butte YMCA and the Butte Chamber of Commerce.

It seems that the gate broke down between Heaven and Hell. St. Peter appeared at the broken part of the gate and called to the Devil, "Hey Satan, it's your turn to fix it this time."

"Sorry," replied the boss of the land beyond the Styx. "My men are too busy to worry about fixing a mere gate."

"Well, then," growled Peter, "I'll have to sue you for breaking our agreement."

"Oh, yeah," said the Devil. "Where are you going to get a lawyer?"

Scotch Gent—My lad, are you to be my caddie?

Caddie—Yes, sir.

Scot—And how are you at finding lost balls?

Caddie—Very good, sir.

Scotch Gent—Well, look around and find one and we'll start the game.

Compliments of  
**ED HORGAN**  
136 West Park

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# MBMG Bulletin Published Recently

The Montana Bureau of Mines and Geology has available for free distribution a new Bulletin, "Summary of Montana Mineral Resources," by Uno M. Sahinen and Frank A. Crowley, both of the Bureau staff.

This bulletin contains a brief description on the occurrence and uses of each of Montana's mineral commodities, from agate to zirconium.

It provides information on uses and up-to-date production figures. Recent discoveries are included and a list of selected references for each commodity is included.

Of further interest is a special map of Montana which shows the areal distribution of mineral resources.

This bulletin is a revision of the Bureau's Information Circular No. I, "A Preliminary Inventory of Montana Mineral Resources" which was originally prepared in 1945 by Dr. F. A. Thomson, then Director of the Bureau. Mr. Sahinen has revised this circular six times.

Copies may be secured without charge by writing to or calling at the Montana Bureau of Mines and Geology office, room 203-B Main Hall, Montana School of Mines.

# Dr. McLeod to Attend Institute

Dr. Kenneth N. McLeod, head of the department of chemistry, at Montana School of Mines, has been selected to attend the Second Summer Institute for College Chemistry Teachers at the University of Indiana, Bloomington, June 15 to July 10.

Dr. McLeod is one of fifty participants chosen from the entire United States. The institute is sponsored by the National Science Foundation.

Lectures, discussions and seminars will be an integral part of the month long program. Afternoons will be spent in chemistry laboratories to familiarize the teachers with advanced methods and techniques in chemistry teaching.

Dr. McLeod will leave Butte about June 10.

# Schedules for 1959 - 60

## FOOTBALL SCHEDULE 1959

October 10	Mines at Northern
October 17	Mines at Eastern
October 24	Western at Mines
October 31	Rocky Mountain at Mines
November 7	Carroll at Mines

## BASKETBALL SCHEDULE 1959 - 1960

December 11-12	Mines at Rexburg
December 18-19	To be filled
December 21-22-23	Christmas Tournament (tentative)
January 8	Western at Mines
January 16	Carroll at Mines
January 22	Mines at Rocky Mountain
January 23	Mines at Eastern
February 2	Rocky Mountain at Mines
February 12	Mines at Carroll
February 13	Mines at Northern
February 20	Eastern at Mines
February 24	Mines at Western
February 27	Northern at Mines

# Until Next Year

Hasta Luego	Addio
Auf Wiedersehen	Adjon
Au Revoir	Zaygezunt
Aloha	Sayonara

See You Later, Dad!

## AMPLIFIER STAFF

# LATE NEWS FLASH!

BIDS TO OPEN ON STUDENT UNION JUNE 3

### CAUTIOUS

"Do you think that old maid has ever been kissed?"

"Heavens, no!" Why, she won't even have her photograph retouched."

# Alumni to Fete New MSM Grads

The MSM Alumni Association will honor the Mines graduating class at the Hotel Finlen. The occasion will open with a social hour at 7:00 p.m., Saturday evening.

The meeting will be directed by Robert Ingersoll (Mining, 1951), president of the Alumni group.

R. H. Fletcher of Butte, widely known for his travels and his interest in Montana history, will be the guest speaker.

The meeting will also honor the graduates of 1909 on their fiftieth year and the graduates of 1934 on their twenty-fifth.

You know why we're having all this crazy bad weather, don't you? Sure, we all do. But one million years ago, more or less, give or take a few thousand years, it was a different story. Two hairy chested individuals were lounging in the entrance (and exit) of a cave waiting for a sudden storm to subside so they could go back out and finish their little game of hitting little round rocks with crooked sticks. "Mighty crazy weather we have been having," spoke Og.

"Yeah," said Glogg. "We didn't have this kind of weather before they started using the bow and arrow!"

A talisman is a man who calls every week for the furniture money.

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# LITTLE MAN ON CAMPUS



"I FINALLY GOT A BLIND DATE FOR YOUR FRIEND HERE — WE CAN EVEN STAY OUT PAST CLOSING HOURS."

### ONE FOR THE ROAD

A born and bred New York City slicker took his first trip out of town recently. When he stopped for gas in a little southern town, he got out of the car, stretched, took a deep breath and commented: "This is a pretty nice day for a town this size."

Congratulations  
and  
Best Wishes

You Pay Less for Cash at...

# Juan's

Farragut and Cobban

The Place To Go  
For Brands You Know

# O'BRIEN AND MILLER—

(Continued from page 1)  
the excavation of an escalator shaft underneath the Chanin Building in New York City.

He is a member of the American Institute of Mining, Metallurgical and Petroleum Engineers, the Mining Club of New York City, the American Club of Buenos Aires and Theta Tau Fraternity.

He authored the article "Mucking-Machine Stope Draw Experience" published in Mining Engineering, 1954.

Mr. Miller will be granted the professional degree of Engineer of Mines.

To be eligible to receive a professional degree from Montana School of Mines it is necessary that the recipient be a graduate engineer who has established a professional career of at least ten years. Five years must have been in a definitely responsible capacity. Moreover, he must have contributed in an outstanding manner to the furtherance of his profession.

# HONORS AWARDED—

(Continued from page 1)  
of the Montana Section of the AIME, presented the Montana Section AIME Paper Awards to Gordon Zeising, who placed first, and to George Maxwell, who placed second.

The final award of the program, the Montana Society of Engineers Gold Medal Award was presented to Robert Wylie by John Hazen, of the Awards Committee of the Montana Society of Engineers.

The expectations of life today are much greater than they were when doctors had no glands.

Magna Charta provided that no free man should be hanged twice for the same offence.

Up-to-date notice on a golf course: "Members will please not pick up lost balls while still rolling."

The force of gravity is a very popular one and attracts large masses.

Letters in sloping print are hysterics.

Things which are equal to the same thing are equal to anything else.

A layette is a song sung by children.

"Pax in bello" means that you don't have indigestion.

Gladiators give out a lot of heat. A cone is the unit of ice cream measurement.

Glamour means putting stuff on your face and lips.

Hors d'oeuvre — horses' eggs.

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