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# The Amplifier - v. 11, no. 10

Associated Students of the Montana College of Mineral Science and Technology

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# THE AMPLIFIER

Montana College of Mineral Science and Technology

Vol. XI, No. 10 BUTTE, MONTANA Friday, May 27, 1966

# Four Seniors are Gold Medal finalists

These four Montana Tech seniors are candidates for the 1966 Montana Society for Engineers Gold Medal Award. The medal is awarded annually by the Montana Society of Engineers to that member of the graduating class at Montana Tech who stands first in integrity as measured among his associates and instructors; scholarship as evidenced by his academic record; engineering promise as demonstrated by aptitude; interest and experience in engineering work, and by his ability to command the respect and good will of his fellow stu-



Russell V. Bills

Russell V. Bills, Upland, California, who will graduate with his Bachelor of Science degree in Petroleum Engineering, has been employed as a roustabout with Amerada Petroleum Corporation and as an engineering aid for Socony Mobil Oil Company during the summers of 1964 and 1965, respectively. He has re-ceived the Honor Fee Scholarship, WAAIME Scholarship, and Billings section A.I.M.E. Scholarship. He plans to study at Mon-tana College of Mineral Science and Technology for his Master of Science degree in Petroleum Engineering under a graduate assistant fellowship. Bills has served as Archon and in other capacities for Sigma Rho fraternity. He has participated in the college's program in intramural

Montana College of Mineral Science and Technology now participates in the College Scholarship Service of the College Entrance Examination Board. Participants in College Scholarship Service subscribe to the principle that the amount of financial aid granted a student should be based upon financial need. The College Scholarship Service assists colleges and universities and other agencies in determing the student's need for financial assistance.

All students seeking financial assistance (except scholarships) for the next college year are required to submit a copy of the Parents' Confidential Statement Form to the College Scholarship Service, designating Montana College of Mineral Science and Technology as one of the recipients

by June 1, 1966.

This form may be picked up at the Business Office. Financial Aid includes all loan funds, Educational Grants and work opportunities under the Economic Opportunity Act.



Dave W. Bennett

David W. Bennett, St. Regis, Montana, who will graduate with his Bachelor of Science degree in Engineering Science, is now working on a study of shales for the Bureau of Public Roads through the Montana State Highway Department. He is a member of Theta Tau fraternity and the A.I.M.E. He has lettered twice in varsity football and baseball, has logged 170 jumps as a "smokejumper" and sport parachutist, and is a "smokejumper" squadleader.



Robert F. Frantz

Robert F. Frantz, Milwaukee, Wisconsin, who will graduate with his Bachelor of Science degree in Mineral Dressing Engineering, has worked as a sampler for the Anaconda Company, as a student research assistant at the college, and as station tender for the seismograph station at Montana Tech. He plans to study at Montana College of Mineral Science and Technology for his Master of Science degree in Mineral Dressing Engineering under a research assistant fellowship. He is senior class president, a member of Theta Tau fraternity, and the recipient of an Advanced Fee Scholarship.



John L. Gow

John L. Gow, Pasco, Washington, who will graduate with his Bachelor of Science degree in Engineering Science, is doing research on lithified shales for the Bureau of Public Roads and the Montana Highway Commission. He is vice president of the senior class, a member of Theta Tau fraternity, and has participated in various varsity and intramural sports. He has been on the honor roll three times, has received the Cobb Foundation Scholarship and Advanced Fee Scholarships.



Halbouty commencement speaker

Michel T. Halbouty, nationally-know consulting geologist, petroleum engineer and indeependent producer and oil operator, will be the speaker at the sixty-sixth commencement of Montana Tech to be held on Sunday, June 5 at 3:30 p.m. DST), Dr. Edwin G. Koch, president of the college, has announced.

Mr. Halbouty will be awarded the degree of Doctor of Engineering, honoris causa, during the commencement exercises.

Mr. Halbouty received his bachelor of science degree in geology and petroleum engineering in 1930, his master of science degree in the same fields in 1931 and a professional geological engineering degree in 1956. All degrees were awarded by Texas A & M University, College Station.

From July, 1933 to July, 1935 he was chief geologist and petroleum engineer for the Yout-Lee Company and in August, 1935 became chief geologist and petroleum engineer, vice president and general manager for the Glenn H. McCarthy Interests, Houston, Texas. In 1937 he became a consulting geologist and petroleum engineer until 1942.

He was called to active duty as Captain, Infantry, Army of the United States in 1942 and was detached from service in 1945 with the rank of lieutenant-colonel. When separated from the Army he was serving as chief of the petroleum production section, planning division, Army - Navy Petroleum Board.

After leaving the service Mr. Halbouty reorganized his firm of consulting geologisst and petroleum engineers in Houston.

He has been geologically responsible for the discovery of oil fields and structures in Louisiana, Texas and Alaska and owns an interest in and/or operates producing wells in oil and gas fields in Columbia, Ecuador, Peru and Venezuela and numerous investigations and evaluations of oil and gas fields in Arkansas, Louisiana, Oklahoma, Texas and other sections of the United States.

He is the author of over 80 cientific articles on geology and petroleum engineering. He wrote a book, Petrographic Characteristic of Gulf Coast Oil Sands, which appeared in 1937. He coauthored Spindletop which first appeared in 1952 and is now in its fourth printing. He is currently engaged as co-author in the writing of two new books, one on East Texas which will be entitled, The Last Boom and scheduled for publication in 1966; and the other entitled, The Book of Oil which is also schedueld for a 1966 publication.



George Ann Thurston, Jim Leifer, Henry Scholz, John Sutey, Terry Angove.

#### Student council elected

M-Day voters elected Henry Scholtz as new president of the Montana Tech Student Body. Henry, better known as Hank, is an active member of the M-Club, vice president of the junior class, and a member of Theta Tau. Hank has and will have a

Chaky honored

Alex Chaky, a senior in Petroleum Engineering, has been awarded a \$75 cash prize and an all-expense paid trip to Denver, Colorado, for his paper on "The Effective Permeability Through Drill Stem Tests." Alex received the award from A.I.M.E., Petro



Alex Chaky

leum Section. His paper is a regional winner and entitles him to enter the National A.I.M.E. Student Papers Contest in New York. Chaky went to Denver on Tuesday, May 24, to present his paper to an A.I.M.E. convention. Dr. Warren, Associate Professor of Petroleum, plans to enter Chaky's paper to the Montana Section of the A.I.M.E. in Billings in June.

Alex came to Montana Tech in 1956 from New Westminster, British Columbia. He received his B.S. in Geological Engineering in 1962. After graduation he went to work for the Bureau of Standards in Canada. He returned to Montana Tech in 1964 to acquire another degree in Petroleum Engineering. When he receives his degree this June, Alex plans to work for the Marathon Company in Cody, Wyoming.

Chaky is a junior member of the A.I.M.E., and belongs to the Society of Professional Engineers as an E-I-T. Also, Alex is a member of the Canadian Institute of Mining busy schedule ahead of him, and his main concern will be to please the interests of the students. With the Student Body behind him, as they are now, Hank will be sure to do as good a job as he has always done in the past.

The Student Body also elected Georgeanne Thurston as the only "lady" on the Student Council. She will have the job of vice president. Georganne has proven herself to be very efficient in all matters concerning the school. She was a past member of Student Council, an AWS delegate, and a member of the Glee Club. Georgeanne is also one of the few girls majoring in Engineering Science. She will surely add a different light to the Student Council and will definitely be a hard worker.

John Sutey has the job of secretary-treasurer. He will have a busy schedule of writing and keeping the school money in the treasury. John spends his spare time participating in sports; he is a two-year member of the football, basketball, and baseball teams, which also means he is a member of the M-Club. He is also a member of Copper Guards. John has proved himself to be responsible in all matters and will prove himself again in the job ahead of him.

In the position of delegate stands Terry Angove. Terry is a sophomore in Engineering Science and was on the honor roll his freshman year. He keeps himself busy with Copper Guards and the job of vice president of the sophomore class. He is a recipient of the Elks Scholarship, Cobb Foundation Scholarship, and a Fees Scholarship. Terry is always willing to lend a helping hand to everyone—an asset that is necessary to carry on the job that Terry will have to carry on.

Last, but not the least of our officers, is delegate Jim Leifer, or "Little Jimmie Leifer," as everybody calls him. Jim is on the basketball team, or "on the basketball floor," and is a member of the M-Club. Being Chancellor of the Copper Guards keeps Jim busy; now that he is a delegate, he will be even bus ier. Jim always has a smile for everyone, and when it comes to getting a job done, Jim will be sure to get it done in a way that will please everybody.

#### WANTED - good teachers

Striving for the expansion of the degree granting departments at Montana Tech is, in itself, a worthy goal. However, it must be realized that the true value of an education is determined to a very great extent by the quality of the rapport in the classroom. If Montana Tech does receive authorization to grant additional degrees, will the college also be able to provide teachers who really can teach? According to the massive volume of propaganda circulated, Tech has already available the teachers qualified to teach in the new departments. To this, there exists much dissension.

Who, other than the student, is better qualified to judge the merits of the teacher? Nobody! And that includes the school administration, the Board of Regents, and all others who pose as being "qualified" to judge. It is obvious to anyone who has been listening that the students at this college are unhappy and disgusted with many of the teachers and their methods. This is equally true of both the engineering students and the general students.

There are on this campus a large number of students who have been here enough years to be able to critically analyze that results of the changes over the past few years. The majority of them, I am sure, agreed that the quality of the education in the classroom has deteriorated, and those who make it into the junior year are sufficiently serious to be listened to.

Nearly all of the student body favors the new degrees, but but many of the students also want good teachers. Colleges exist primarily for the student, and he is owed the access to worthy teachers. Montana Tech needs to refrain from living off the reputation of the past and get with the truth of things as they are today. If the reputation is to be maintained, better teachers are needed—now!

-Tom Downey

## Montana, a wonderland

Spring is here and school will soon be out. Many students will be hitting the open road to see the world. What most people don't realize is that they can see most of the world right here in Montana. The thing that is most amazing to me, is why people travel thousands of miles to the Swiss Alps or some other mountain resort, when they can find everything they are looking for right here, and at better than half the expense.

Montana is truly a tourist wonderland. Its ice-blue mountain lakes and streams provide for some of the best boating, water skiing, and fishing in the world. Its majestic and colorful mountains provide some of the best hiking and scenery to be had. Montana has an abundance of clean, fresh air filling its clear blue skies, and is properly called "The Big Sky Country." The beautiful green forests make available the best game hunting in the West. May I ask you, where else can you spend a nice peaceful vacation, relaxing away from the modern hustle and bustle of the city, taking in the most magnificant wonders of all, "Mother Natures' Wonderland?"

Let us promote the tourist industry in Montana and attract people to Montana—"Playground of the West"—and let us strive to keep its natural wonders free of those harmful industrial wastes. Montana as you can see has everything to offer to the tourist and could provide for a stimulating industry that would enable us to enjoy the beauty God gave us with a prospering economy.

HAVE A NICE SUMMER IN MONTANA!!

—Don Brunell

#### God dead? He never existed!

There are many people across the face of the earth who have picked up the chant, "GOD is is dead!" For those who say so, this not quite true. The fact is, how can a being be dead who, in their minds, never existed in the first place? I think it's about time that we drew a conclusion to this fantasy. As far back as recorded history allows us to see, GOD has been nonexistent to these people. Throughout time, men who have called themselves prophets have been crying in the wilderness proclaiming a GOD that they thought did not exist.

A man came into the world and claimed to be the son of

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..Thomas Downey, Ernest Bond God. He said, "I am the way, the truth, and the life. No one comes to the Father but by me." For claiming to be the son of God. He was ridiculed and put to death. What a waste of time and effort; to kill a man who claimed to be the son of someone who does not exist.

Why then, do we say, "GOD is dead?" The answer is simple. Saying "GOD is dead" is one way of rejecting the fact that there ever was or now is a GOD. The one who was crucified said HE came to give us eternal life . . . if we would but believe. For those who do not believe . . . is eternal death. You see, the dead need no GOD. GOD is for the living. So GOD does not exist for those who are already dead. It is not GOD who is dead, but those who believe so, who are dead!

In the minds of those who say, "GOD is dead," HE never really existed. Either we have a living GOD or GOD never existed in the beginning. There is no middle ground. So GOD is not dead. HE is alive or HE is non-existent. People of all ages have chosen to believe that either GOD does exist or that religion is bunk. GOD dead? I say, BUNK!

At some time, it will be re quired of you to cast your vote. Let's be definite about it. Let's get off the fence and say what we believe. Cast your vote FOR or AGAINST GOD! But choose wisely—it may be for eternity!

— Dan Wilmot

#### P. I. G. S. form

"This meeting will now come to order . . ." This phrase is becoming well known around the campus of Montana Tech since H.S.S. is sponsoring a club under the direction of Mrs. Nason. This organization is known as the Parliamentary Institute of Greater Students and its purpose is devoted to the understanding and studying rules of parliamentary procedure.

The first meeting of the P.I.G.S. was held Thursday, May 5, when an election of officers was held. Mrs. Nason presided over the meeting until the chairman, Dan Piazzola, was elected. After his election other offices were open for nominees and candidates were chosen. These offices include: co-chairman, Tony Buralli; treasurer, Tom Cannon; secretary, Marie Pershe; and Sergeant-at-Arms, Patty Kelley.

Dan Piazzola called the second meeting to order at 8:00 a.m. on May 10. This meeting was primarily for the purpose of drawing up a constitution and discussing confusion points. Decided upon, by majority vote, were limits for admission to membership, term of office, meeting time, how the constitution and its laws could be amended, who could amend the constitution, how and who could expel a member, deadline for membership, and penalties for absenteeism.

The third and final meeting of the P.I.G.S. was called to order on May 12, by Dan Piazzola. There was no treasurer's report, so old business was brought up and all that was discussed were more points on the constitution. Under new business, a motion was passed to forward a resolution on an important matter at hand and have it published. Two items were brought up and discussed. These items were that the club back blood donations for Viet Nam, and support the acquisition of new degrees here at Montana Tech. Both of these topics have something directly to do with the students here. It was decided upon by majority vote that the club use the new degrees for a written article. Some of the facts brought out in the discussion were that the new degrees are necessary for the welfare and benefit of the school; that the new degrees would enable many students to continue their education here more than just one or two years, and that the new degrees would bring about a better, larger, more rounded institution. It was also brought out that the new degrees would raise the standards of the engineers here at Montana Tech.

Some other points were that it could save "Tech" from becoming a junior college, and having the engineering department moved to Bozeman.

After this discussion, a motion was made and carried that a unanimous vote be necessary to publish any such resolution. This, therefore, made it impossible for the club to publish any resolution because no one could completely agree. The club felt, thus, that if it were to publish anything it must be willing to stand 100% behind it if anyone was to challenge the stability of the question.

Club members other than the officers are: Steve Bauer, Russ Bills, Myron Castron, Bill Goodman, Marilyn Grinde, Tom Hamaker, Judy Hayes, Steve Martin, Doug O'Connell, and Janis Platt.



"Automation — man's effort to make work so easy that women can do it all."

# Tech qualified for degrees

Since this is the last issue of the Amplifier and classes are about finished, I want to wish everyone a long happy summer.

This college is changing—progressing. Last year we were given a new name to enhance our progression and to show prospective students that our college offers more than just mining degrees. For the first time our enrollment went over the 600 mark. We can anticipate more students every year. But in the future we will need more teachers, more classroom space, and to keep up with the changing world, the proposed new degrees.

The new degrees, if granted, would ease the great load carried by the other members of the university system and they would be a great benefit to the state of Montana. In particular, Montana people are recognizing the importance of our water resources and the need to take care of them. For this trained specialists are needed. With a Hydrology option in the field of geological engineering, Montana Tech could well provide Montana with top-notch hydrogeologists.

Montana Tech is well known throughout the United States and many foreign countries for turning out top notch experts. But we can not dwell in our past and present glories. To keep one step ahead of the 'Jones', we need to offer degrees in Chemistry, Math, Physics, Geophysics and other degrees in the field of geology.

Montana Tech is unusually well qualified to be given the option to grant these new degrees. Ours is a small college with the room to expand with the influx of many more students. Our professors are well known to be top flight professionals in their field with many years experience. And most of all Montana Tech is geographically located at the center of a technologically expanding area of Montana. Practical application goes hand in hand with intensive instruction in theory.

- Ernest Bond

# The cheaters and their skeptics

We all realize that almost every test given in the general curricuum can be passed by applying one's self for approximately two hours between tests and then cheating, and that a very high per centage of us do so to some extent. Some students do not approve of this practice. More than once I have heard a student remarking that he or she thought it was distasteful that so many people cheated on a certain test.

I do not mind hearing such criticism by these people, but the reason they give to justify their criticism is rather interesting. I hope these people are not so naive as to believe that they are being moral, righteous, or acting as protectors of community chastity.

Morally, the consciences of we cheaters are clear. Cheating is no more immoral than the existence of ever-increasing barriers to higher paying jobs, and I don't mean jobs requiring special complex skills. Truck drivers now have to have two years of college.

The teachers certainly are not hurt by such goings on, unless, of course, it is commonly known that the teacher is a patsy for cheating or that he is too lazy to change his tests frequently, because he gets paid regardless and has the satisfaction of knowing that he is doing his job.

It is often said that the only one a cheater hurts is himself. So is it not then the cheater who will pay for his misdeeds?

Who is bothered by cheating? The truly conscientious student is not interested in the grade of his fellow students. He is concerned with getting as much as possible from college and with maintaining his own standards. The only one bothered is the one who would also cheat if he had the guts or a little stronger incentive.

If I am wrong in putting all dissenters in this category, and there are still those who would argue in the name of morality that cheating is wrong, let them be prepared to show how this morality consumes the difference between the smart and the mediocre, the rich and the poor, or the war veteran and the mama's boy.

If these indignant pupils can successfully offer a defense of the philosophy of morality, then they have my respect and admiration. If they can't then let them say that they abhor cheating because it does not benefit them. And if they do not choose to say this then let them forever hold their peace.

-George Volsky

#### Editorial

Consider the plight of the average misinformed student. He will tell you that New Yord's Lincoln Center is a car dealer, the Louvre is something which lets air in through the hood of his '49 Merc, Bartok is conversation heard in the U & I, Beethoven is a cat who is supposed to roll over to a rocking beat, Bach is a beer made for spring, and the Great Books are a collection of the last ten year's issues of Hot Rod.

In a recent poll of American colleges, one interesting conclusion was drawn by the administrators: students of engineering tend to lack knowledge of culture or interest in the arts.

There is really no reason why this should be true. Engineers are thriving in a cultural atmosphere, aren't they? Take a look around you at the Montana Tech campus.

Once there was an enthusiastic and organized element interested in furthering the advancement of the drama. Plays were produced and well-received by the large crowds attending. When was the last play?

There are no convocations featuring noted men in the arts such as popular writers, poets, musicians, or even an observer of the times from one of the mass media.

The only visible sign of art on campus is the infallible bronze gentlemen who graces the hilltop entrance. Not that we should have a fountain in the circle featuring a nude miner standing on one toe spurting water from his stone lips, but a few statues placed strategically here and there would greatly enhance the archaic ivy-covered buildings and present an interesting contrast to the oil rig imbedded in concrete between the Petroleum Building and the SUB.

#### 3

# Twelve men complete first year on tech faculty

completed their first year at Montana Tech. The new members were in the departments of engineering and science, in which there were seven, two each in th Bureau of Mines and Geology and Humanities and Social Studies department and one in physical education.

New personnel who joined the

Professor Gustov Stolz

Professor Gustov Stolz assumed

a new position during the school

year of 1965-66. Along with his position as head of the Petroleum

Department, he served as acting Dean of Student Affairs.

Professor Stolz has been a member of the Montana Tech

faculty for eleven years. During

the past two years, he has served

as Head of the Petroleum De-

partment. He also handled the

job as acting Director of Placement. In this capacity he helps

students to find employment. This

year, besides finding full-time employment, he assured many

part-time jobs for interested stu-

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Professor Stolz

as dean

finishes first year

engineering and science faculty were Dr. Hugh W. Dresser, assistant professor in the department of Geological engineering, who holds bachelors and masters degrees from the university and was granted his doctorate from the University of Wyoming in 1959; Dr. Wilbur J. Guay, assistant professor of mineral dressing who received his bachelor and

#### M day complete success at tech

Wednesday the official M-Day activities began at 9:00 in the morning. Groups of Tech students were assigned to several different jobs. While some students were busy whitewashing the M others cleaned up the campus and began building concession stands for the carnival. Three men from Tech put on a sky diving exhibition for the ambitious workers.

The Copper Guard held a luncheon in the circle for all the busy students. At 1:00 they started voting in the circle for the candidates of their choice. Henry Scholz was elected president; John Sutey, secretary-treasurer; and Terry Angove and Jim Liefer won the positions of delegate.

Kangaroo court brought fun with its stiff sentences. The coeds were dunked in bud below Marcus Daly. From 2:00 until 6:00 the carnival was held in Alumni Stadium. Students enjoyed the old fashioned nickel toss and the football throw. To end the day's festivities the Exciters, from Bozeman, played for the annual M-Day Dance. Suzanne Johnston, a Montana Tech freshman, was crowned Circle K Club's first Sweetheart.

Considering the pain of lime burns and the enthusiasm in volved, M Day was a complete

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tana School of Mines and was awarded the Doctor of Science degree from the Colorado School of Mines in 1963; Charles L. Herndon, assistant professor in the department of engineering science, who holds both bachelor's and master's degrees from the University of Texas, Austin, and has previously held academic positions in California; George Hetherington, Jr., instructor in the department of petroleum, who received his undergraduate degree from the University of Colorado, Boulder, in 1928, and has worked for various oil firms throughout the world; Dr. Edwin G. Holverson, assistant professor in the department of physics,

#### Queen Mary gets a special honor

Miss Mary McGrath, Montana Tech's Homecoming Queen for 1965-66, received a special honor for her new position. She was one of six other homecoming queens to ride the "Sweepstakes" winning float from Montana in the Tournament of Roses Parade with Miss Montana. Queen Mary left Montana for California December 29 to enjoy four days away from home in North Holly-

During her stay in Los Angles Miss McGrath was treated to many favors. As a guest of the Carnation Company she was treated to lunch and given free she was tickets for rides in Disneyland. She saw sets for the Aadms Fam ily TV show at Universal Studios.



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### Coeds selected

Soaring school spirit prevailed throughout the days, October 28-30. The reason for this excitement was the annual Montana Tech homecoming activities.

To begin the celebration, six coeds were elected by the M-Club to run for homecoming queen, and on October 29, from 11:00 to 1:00 p.m. members of the student body voted for the candidates of their choice. Selected to reign over festivities was Miss Homecoming Queen, Mary McGrath. Attending the queen were princesses Sandy Quarles, Gayle Robins, Carol Rask, Judy Stolingwa, Cheryl Harrington, and Barbara Angove.

#### Seniors listed

Ten Senior students were selected for inclusion in the forth-coming edition of "Who's Who Among Students in American Colleges and Universities," according to Professor Dean Stolz, acting Dean of student affairs.

The ten and their engineering degree fields are: William R. Banning, Butte, mineral dressing; David W. Bennett, Butte, en-gineering science; Russell V. Bills, Upland California, petro-leumieum; Robert F. Frant, Butte, mineral dressing; John L. Gow, Butte, engineering science; Clifford P. Kavanaugh, Butte, metallurgy; Dolores LaBranche, Butte, metallurgy; Kent M. Tay-Butte, mining; Leroy E. Wilkes, North Swanzey, New Hampshire, mining.

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# Working for Montana

Do you know that The Anaconda Company annually pays about \$5 million in taxes in Montana? In the past year production from the Butte mines alone provided more than \$1 million in taxes for our Montana schools, state and local governments. Property taxes in 20 counties amounted to another \$4 million. In 1966 the Social Security taxes Anaconda pays for its employees are expected to exceed \$2

Taxes are a heavy load on our operations, just as they are for every tax-paying citizen. We just like to point out that in paying our share, The Anaconda Company provides money for a lot of salaries and services. We can say our tax dollars are important—they work for all Montana.

#### ANACONDA

"A Partner in Montana's Progress"

#### Talent show well received

Calling themselves the "Los Diablos Band," several Montana Tech students formed the first place winning group in the First Annual Talent Show, Saturday night, March 26. Playing two popular songs, Spanish Fly and Tiapuana Taxi, the band won the vote of the judges and the approval of the large audience with their professional delivery of the numbers. Members of the "Los Diablos" were Ron Backer, Bob Wilson, Tony Galligos, Bob Hutt, Terry Kivela, and Joanne Baird. The group received the firstplace prize of twenty-five dollars.

Second place winner was Steve Percival with a folk piece from Spanish music. The winning piece involved difficult technique and the exotic preciseness of Flamenco style music and won for Percival the amount of fifteen dollars.

Third place ended in a tie be-tween Anne Robinson and Fred Booth. Miss Robinson gave several renditions of modern dance numbers winning her a check for ten dollars, while Booth received a like amount for his delivery of a soliquy from Shakespeare's Hamlet.

Ten acts composed the evening of competitive entertainment. Other students who took part in the show were the musical group of George Volsky, Bob Morine, and Gary Davidson; the dancing duet of Anne Robinson and Carol Rask; Hilma Smith as a vocalist; the trio of Gene Galovic, Bill Goodman and John Sullivan doing "Kingston Trio" numbers; Sheryl Harrington, Colleen Coles and Helen Roberts in a provocative modern dance routine; and Mr. and Mrs. Bob Seidel doing a hillbilly skit.

Following the Talent Show, a dance was held with music provided by the Dardenelles. Sponsored by the General Student Club, the Talent Show was the first to be held at Montana Tech. From the unexpected large turnout and the superb talent of the participants, it is decided that the General Students will hold it as an annual event.



Mike Lewis, Gene Albright at "College Day."

#### Baseball team in bad season

The 1966 baseball season opened on April 16 when Tech lost a double-header to Rocky Mountain College in Alumni Stadium.

On April 22 the Orediggers lost game to Northern Montana College and on the 23rd they lost two games to Northern. Tech then traveled to Helena on April 30 where they lost two games to Carroll College.

On May 7 Tech lost two games to Eastern in Butte and on May 17 they lost a game to Western Montana College in Dillon. The last game is scheduled in Billings at the N.A.I.A. playoffs.

The baseball team was expected to win more games this year but some of the better players were not eligible to compete.



#### Tech homecoming success

The annual Montana Tech tober 28. homecoming activities were held throughout October 28-30.

To begin the celebration six coeds were selected by the M-Club to run for homecoming queen. Mary McGrath was elected as this year's homecoming queen.

A pep rally, in which coach

Downey and the team captains gave pep talks, was held on Oc-

On October 30 Tech rooters cheered the Orediggers into victory over the Rocky Mountain College Bears, 26-6. The game, Tech's fourth straight homecoming victory was held in Alumni Stadium before an estimated 2,500 fans. The festivities ended with the homecoming dance held in the Copper Lounge.

#### Diana Hughes

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#### Circle K crowns first sweetheart

Suszanne Johnston, a Montana Tech freshman, was crowned Circle K Club's first Sweetheart at M Day dance. The newly formed Butte Circle K Club chose Miss Johnston from a group of 12 Montana Tech coeds nominated by the club members. As the first girl to be so honored by Circle K, Suszanne is an honorary member of Circle K and will represent Circle K at school and civic festivities.

Suszanne stands a pretty five feet six inches tall, has blond hair and blue eyes. She is a graduate of Girl's Central and is living with her parents. Her activities include ballet dancing, photography, and working as a cosmetician at Len's Pharmacy. She plans to attend U of M next



Allen D. Rovig

#### Rovig returns to his alma mater

Allen D. Rovig, son of Mr. and Mrs. Cliff Rovig of 1004 6th Avenue East, Kalispell, has joined the faculty of Montana College of Mineral Science and Technology in the department of mineral dressing. In his first year of teaching, Mr. Rovig replaces Dr. Guay.

Rovig graduated from Montana Tech in 1961. He joined Sigma Rho and is a member of A.I.M.E. Mr. Rovig now teaches seniors and graduate students Mineral Dressing and Materials Separations. After substitute teaching in 1964, Mr. Rovig is back at his alma mater as a professor in his chosen vocation.

### New degrees

Montana Tech has requested bachelor of science degrees in chemistry, physics, math, geology, geophysics, and hydogeo-logical engineering from the State Board of Regents.

Tech feels that with the continuing growth of enrollment these degrees would be beneficial to the preprofessional students who could continue and complete their academic studies here at Tech. It would also relieve some of the enrollment pressure on the units with university status in Montana.

It is estimated that for a number of years only four new faculty members would be needed to handle the bachelor of science degrees in chemistry, physics, and math. It has also been estimated that only 20 additional would provide for the entire initial needs of these three degrees. For the degrees in geology, geophysics, and hydrogeological engineering only four new courses would have to be added to the present catalog and no new faculty members would be needed.

#### New Student Council



George Ann Thurston, Hank Scholz, John Sutey, Jim Leifer, Terry Angove.

During the past year there has been three different Student Councils, with five different elections.

The first student council which consisted of Bill Thompson as president, George AnnThurston as secretary-treasurer, and Tom Downey and Dave Koskimaki as delegates-at-large. A new election was then held because some of the members were on cho-laetic probation. This election was declared illegal because the constitutional ammendments were not posted two weeks in advance.

The third election was then held but it was declared illegal because no one won by a majority vote. The two candidates with the most votes ran for office in a run-off election. At this election Bill Robinson was elected president, GeorgeAnn Thurswas elected vice president, Mary McGrath was elected secretarytreasurer, and John Sutey and Dave Koskimaki were elected as delegates-at-large.

Next year's student council was on M-Day. Henry Scholz was elected president, GeorgeAnn Thurston was elected as vice president, John Sutey was elected secretary-treasurer, and Jim Liefer and Terry Angrove were elected as delegates-at-large.



Seated above are the officers and advisors of the Student Council. From left to right they are Dave Koskimaki, delegate; Gene Downey, advisor; Elizabeth Satter, advisor; Bill Thompson, president; Tom Downey, delegate; Bill Daily, secretary; GeorgeAnn Thurston, vice-president.

#### Record enrollment seen at Tech

This year, the Montana Tech enrollment reached an all-time high of 600 registered students. Freshmen numbered 333, sophomores 167, juniors 38, seniors 35, and graduate students 27. Breaking these figures down by class including engineering and general students, we find:

	1	den	Wom.
27	Grad. Students	26	1
35	Seniors	34	1
38	Juniors	37	1
28	Soph. Engineers	78	0
89	Soph. Generals	66	23
97	Frosh Engineers	97	0
26	Front Conorola	161	75



Registrar Brown

#### Boedecker Bombers

A group of playboys everyone knows are the fabulous Boedecker Bombers.

The Boedecker Bombers is a football and volleyball team. During basketball season they played exhibition games prior to the regular varsity basketball games.

The team originated when they van, and John Thatcher.

were playing a benefit game for the March of Dimes. At this game they raised a total of \$205.62.

Members of the team were Bill Daily, Jerry Hansen, Gene Albright, Tom Downey, Mike Lewis, Freddy Jense, Gooch Robinson, Pat Marx, Ken Throlston, Bob Corr, Creighton Barry, Ron Glo-



Boedecker's Bombers.

(ADVERTISEMENT)

# Evelyn Wood Reading Dynamics Greets Fifth Year In Rocky Mountain Area with Salute to 4,857 Students

#### Reading Dynamics Is World's Largest Reading School

Evelyn Wood Reading Dynamics is now the largest school of its kind in the world, it was announced by Paul Wallisa, Rocky Mountain

"In the Rocky Mountain area," said Wallisa, "We have had over 2300 students during 1965." Since the founding of Reading Dynamics, over 160,000 people have been trained in the Wood method. The Denver Institute alone has taught almost 2,000 students since 1961.

The region has grown from one Denver location employing three people, to five permanent insti-tutes located in Colorado Springs, Ft. Collins, Albuquerque, Kansas City and Denver, which employ 20 teachers and supporting per-

The Institutes will send teachers to hold classes in any city or for any school that expresses a strong interest in having the pro-gram, and also will supply teachgram, and also will supply teachers for in-plant courses. At the corporate executive level, where a second saved is measured in terms of money earned, entire staffs have been enrolled to take the eight-week Evelyn Wood

Many dramatic changes have been effected in all phases of the school activity. A new guarantee has been instituted, promising to triple the student's reading speed or refund his tuition.

In the last year, after several years of research and experimentation by Evelyn Wood, a whole new training program was instituted, giving improved results, with heavy emphasis on technical reading and study techniques. As reading and study techniques. As a result of these new methods, the average graduate is now reading faster than 1,500 words per minute; less than 2% of the students have requested a refund under terms of the guarantee.

Wallisa said the summer series of classes would begin throughout the area within the next two weeks. Once the student has graduated he becomes a lifetime member and is entitled to con-tinuation and refresher courses



Paul Wallisa Rocky Mountain Director

in Denver and/or at any Reading Dynamics Institute throughout the country.

The need to increase reading speed is vitally apparent in this fast-changing world, since there is now available infinitely more printed information than in any previous generation. Legislators, professional men, business execuprofessional men, business executives, teachers, students and housewives are deluged in a sea of professional, trade and technical papers, magazines and other general publications to be read for pleasure and information.

They must forego much of what they should read, for it is impossible for them to read it all much less current best sellers. The alternatives are clear—either to read less than is necessary, or learn to read faster.

# **Instructor Creates First** Book-A-Day Program

Mrs. Marynell Moore, Director of Instruction in Kansas City, Missouri, has shown us what is possible when you read rapidly. The mother of three children, Mrs. Moore has full-time duties teaching and training teachers. In addition, she spends fifteen hours each week preparing her Book-A-Day program, which is run as a public service by many radio stations throughout the country. tions throughout the country. During these fifteen hours, Mrs. Moore reads five to ten new books, and writes reviews on five of them. The reviews are taped at a nearby studio. If Mrs. Moore did not read rapidly, it would be physically impossible to accomplish all of this in the limited time she has available.

Her program is presented daily as a public service by the following stations in the Rocky Moun-



-	0	
Denver	KFML	9:55 a.m.
Cheyenne	KRAE	9:00 a.m.
Laramie	KOWB	10:10 a.m.
Ft. Collins	KCOL	10:00 p.m.
Albuquerque	KHFM	10:00 a.m.
Kansas City	KCMO	10:10 a.m.

You are invited to listen daily for a demonstration of what is possible with this method of reading. The book reviews cover the fields of politics, history, humor and the entertainment indus-

Mrs. Moore is well prepared to make these commentaries. A graduate of St. Mary of the Woods College, she was associated with radio and television for a number of years in Chicago, Milwaukee, Birmingham and Denver. In Denver, she conducted two radio programs, "Controversy," and 'Denver P.M." where she handled telephone conversations on subjects which ranged from politics to housework. She also did reporting from the State Capitol.

After taking the Reading Dynamics course to improve her ability to study, Mrs. Moore be-came interested in becoming a teacher, and after training, taught classes in Denver and Boulder before assuming the responsibility for our Kapses City and for our Kansas City office.

# School Teacher Discovers New Reading Technique

"I didn't invent fast reading, I just discovered it." These words of Evelyn Wood sum up the history of the development of the Wood method. It was Mrs. Wood's discovery 20 years ago, of the 6,000 word-per-minute reading speed of her professor at the University of Utah that triggered today's overwhelming interest in

fast reading.

Mrs. Wood's curiosity caused her to look for other exceptional readers and over the next few years, she found 50 people who could read faster than 1500 words per minute, with fine comprehension, outstanding recall and great satisfaction in reading.

She was now sure it was possible to read faster than anyone had thought, but the question of how these people did it was not yet answered. It took 18 years of toil and research, working with "natural" fast readers, before she

began to find the answers. Her quest led her to experiment with students at the Jordan High School in Jordan, Utah, where she was the English teacher and girls' counselor. Eventually a technique was developed whereby technique was developed whereby the average student was able to learn to read 3 to 10 times faster. She taught her method at the University of Utah for three years, refining it even further. Further studies were conducted at the University of Delaware, and the first Reading Dynamics Institute was opened in Washington, D.C. in September, 1959. Since that time Institutes have been opened all over the country, and many authorities have accepted Mrs. Wood's basic conclusion. Says Mrs. Wood, "I would rather teach young people to read like lightning than anything I can think of."



Evelyn Wood, Founder of Reading Dynamics

#### Students Average 2,610 Words Per Minute With 7.8 Times Increase

Students who began the Read-Students who began the Reading Dynamics course taught by Mrs. Adele B. Rosenstein in Denver, Colo., in 1965, graduated reading biography and more difficult books with average speed of 2,610 words-perminute. In fact some students showed a 13 to 14 times increase in speed. Tests showed equal or better comprehension.

#### READING MACHINES OBSOLETE

One of the major problems to be faced by the teacher of fast reading, when the method is machine oriented, is that most students lose the acquired skill shortly after leaving the course. The machine provides a pacer of the student, forcing him to move faster, but when the machine is no longer available the student tends to revert to his previous reading patterns. The Wood Method teaches the student to use his hand as a pacer, guiding use his hand as a pacer, guiding his eyes rapidly down the page, and his pacer is always with him, he can retain, and improve upon his acquired skill.

#### FAST READING INEFFECTIVE WITHOUT COMPREHENSION

"Reading is a waste of time, slow or fast, if you don't understand what you are reading," stated Evelyn Wood at a recent teacher training conference. "If you aren't comprehending, you aren't reading."

Mrs. Wood also was critical of

skimming techniques commonly used in speed reading courses and informed her teachers that they must increase comprehension at must increase comprehension at the same time they are achieving high speeds. She said, "Skipping words is dangerous as you don't know whether or not you have skipped a word which could change the whole meaning of the sentence. You read five times factor not by reading every fifth faster, not by reading every fifth word, but by reading five times as many words in the same amount of time. "It is impossible to tell which words to skip or disregard until you have seen them all and determined their relative importance and meaning.

#### **OUR AVERAGE GRADUATE READS MORE THAN 1500 WORDS PER MINUTE!**

Over 95% Of Reading Dynamics Graduates Have Increased Their Reading Speed At Least Three Times—With Good Comprehension

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- You will learn how we can help you to faster reading improved comprehension, greater recall.

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the most useful education experiences I have ever had. It
certainly compares favorably with
the experience I've had at Yale
and Harvard."

#### SENATOR TALMADGE

Georgia

"It is my opinion that if these techniques were instituted in the public and private schools of our country, it would be the greatest single step which we could take in educational progress."

Conventional rapid reading courses aspire to 450–600 words per minute. Most Reading Dynamics graduates can read between 1,500 and 3,000 words per minute, and many go even higher.

We guarantee to increase the reading efficiency of each student AT LEAST 3 times with good comprehension. We will refund the entire tuition to any student who, after completing minimum class and study requirements, does not at least triple his reading efficiency as measured by our beginning and ending tests.

Register Now For Summer Classes Starting Soon Billings-Mon., June 20 Butte-Fri., June 24 Livingston, Wed., June 22 Anaconda—Sat., June 25

Bozeman—Thurs., June 23

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STREET\_\_\_\_

# Montana Tech



William Banning

William Banning, from Dillon, Montana, has received a Cobb Foundation scholarship, a fees scholarship, and was on the honor roll for a semester. He is a member of Who's Who on American college campuses, and works on the Magma staff. Bill was active in intramural basketball and volleyhall



Robert Keith Bates

Joe Bates is from Anaconda, Montana and will graduate in Metallurgical Engineering. He received a Freshman Scholarship and an A.I.M.E. Scholarship. He is a member of Theta Tau, A.I. M.E., and A.S.M. He was Student Council Delegate, Vice-Chairman of A.S.M., Outer Guard of the Theta Tau, and on the Dormitory Council. He participated in Intramural basketball and volleyball.



Robert C. Beers

Bob Beers is a native of Chicago, Illinois, and will receive his degree in Metallurgical Engineering. He was on the honor roll for two semesters and received a Freshman Scholarship and two Advanced Scholarships. He is a member of A.I.M.E. and A.S.M.



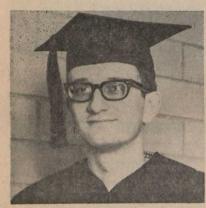
David W. Bennett

Dave Bennett is a native of St. Regis, Montana, and is getting his degree in Engineering Science. He was on the honor roll for two semesters. He is a member of Theta Tau Fraternity and A.I.M.E. He participated in football and baseball for two



Russell V. Bills

Russ Bills, a native of Upland, California, belongs to Sigma Rho fraternity. He has been on the honor roll four semesters and has received state fee, Women's Aux., A.I.M.E., and Billings Section A.I.M.E. scholarships. Bills was a member of Copper Guards and A.I.M.E. He has served as Archon, Vice-Archon and secretary of Sigma Rho, member of the dorm council, secretary of A.I.M.E. and editor of the MAGMA. He has also participated in intramural sports.



Joseph Martin Caddy

Joe Caddy, a native of Butte, Montana, is graduating in Metallurgical Engineering. He is recipient of the Cobb Foundation Scholarship and two Advanced Fee Scholarships. He is a member of the Sigma Rho Fraternity, A.I.M.E., A.S.M., and Chess Club. He was Archon of Sigma Rho and secretary of the Chess Club. He participated in intramural basketball and volleyball.



James E. Ceserani

Jim is a native of Butte and a member of Theta Tau. He is a member of A.I.M.E. and the M-Club. He has participated in basketball, baseball and handball.



Alexander Louis Chaky

Chaky is a native of New Westminster, British Columbia. He has also received a degree in Geological Engineering with a petroleum option in 1962. He is a member of Sigma Rho, Canadian Institute of Mining, Society of Professional Engineers, A.I.M.E., and the Alumni Association of Montana Tech.



Thomas E. Dadson

Tom is a native of Santa Ana, California. He is graduating in Metallurgical Engineering. He is a member of Theta Tau Frater nity, A.S.M., and A.I.M.E. He was treasurer of Theta Tau. He participated in intramural volleyball, varsity swimming, and varsity waterpolo.

Bachelor of Science degrees will be granted to five students in Petroleum Engineering. They are Russell V. Bills, James E. Ceserani, Alexander Louis Chaky, William W. MacFarlane Jr., and Pat Marx.



Howard Trygre Forsythe

Trygre came to Butte from Livingston, Montana. He is a member of A.I.M.E., Chess Club, and Mineral Club. He has held the office of president of both the Mineral and Chess Clubs. He has also participated in intramural sports.



Robert F. Frantz

Bob Frantz, from Milwaukee, Wisconsin, has been the recipient of an advanced fee scholarship, was president of the senior class, and secretary-treasurer of the junior class.



Ronald James Glovan

Ron is a native of Anaconda, Montana. He is graduating in Metallurgical Engineering with a Materials Science option. He is a member of A.S.M. and A.I.M.E. He has played varsity football and intramural sports and is a member of the M-Club.



John L. Gow

John Gow is from Kalispell, Montana, and is graduating in Engineering Science. He was on the honor roll for five semesters. He is recipient of the Cobb Foundation Scholarship and an Advanced Fee Scholarship. He is a member of Theta Tau and A.S.T.M. He was vice president of the senior class. He participated in basketball, track, and intramurals.



Clifford Patrick Kavanaugh

Clifford Kavanaugh is a native of Butte, Montana, and will receive his degree in Metallurgical Engineering. He is recipient of the ASARCO Scholarship, a Freshman Scholarship, and two Advanced Scholarships. He was a member of Sigma Rho, A.S.M., and A.I.M.E.



John William Koger

Koger is a native of Fort Shaw, Montana. He is majoring in Metallurgical Engineering. He was corresponding secretary of Theta Tau, member of A.S.M. and A.I.M.E. He was vice president of the junior class and has participated in intramural sports.

# Class of 1966



Dolores Agnes Labranche

Dolly, whose home town is Butte, is graduating with a Metallurgical Engineering degree. She has been on the honor roll three semesters, and has received fee and Anaconda Company Undergraduate scholarships. She has been a member of A.W.S., A.I.M.E., A.S.M., and Who's Who. She was treasurer of A.S.M. and A.W.S. delegate. She has also played tennis and badminton intramurals.



William F. MacFarlane Jr.

Bill comes from Havre, Montana. He was the recipient of a high school entrance fee scholarship. He was a member of the pep band and of Copper Guards. He held offices as Vice-Archon and sergeant-at-arms of Sigma Rho. He also played intramural basketball.



Pat Marx

Pat received his B.S. degree in Engineering Science in 1965. He is a member of Theta Tau and M-Club. He has played varsity football and basketball. Pat is the recipient of the Viola Vesta Coulter Scholarship, W.A., A.T.M.E. Scholarship and fee scholarship. Offices which Pat held were dorm proctor, Student Council delegate, and secretary-treasurer of the Residence Hall Council



Stanley Howard Miller

Stanley Miller is a native of Butte, Montana, and a graduate in Engineering Science. He was on the honor roll for one semester. He received the Viola Vesta Coulter Scholarship. He was a member of the M Club, Chess Club, and Copper Guards. He was a three-year letterman in football



Gaston Antonia Pasut

Pasut came to Montana Tech from Chuquicamat, Chile. His major field is Metallurgical Engineering. He is a member of A.I.M.E., A.S.M., and the International Club. He was president of the International Club, secretary-treasurer of A.S.M., and of the senior class. He has also played intramural volleyball.



George B. Phelps

Phelps is a native of Asheville, North Carolina. He is a member of A.I.M.E. and Sigma Rho. He was president and vice president of the Mineral Club.



Dale Edgar Scholz

Dale is a native of Butte and a member of Theta Tau fraternity. He has been on the Dorm Council. He was vice president of A.I.M.E. and a member of the Mineral Club.



Robert M. Solari

Bob Solari, a native of Butte, Montana, is graduating in Engineering Science. He participated in intramurals.



Daniel H. Stowe

Dan is a member of A.I.M.E., Theta Tau and Newman Club. He was president of the Newman Club and treasurer of Theta Tau. He has also played football. His home town is Helena, Montana.



Kent Taylor

Kent Taylor, a native of Kalispell, Montana, will receive his degree in Mining Engineering. He has received an advanced hoor scholarship, and has been on the honor roll three semesters. Offices which he held were secretary of the Copper Guards and Archon of Sigma Rho. He is a member of ASARCO, A.I.M.E., and Who's Who. He has also participated in intramural sports.



LeRoy Wilkes

LeRoy Wilkes, from Keene, New Hampshire; also a Sigma Rho member, lists two semesters on the honor roll. He was chancellor of the Copper Guards, president and vice president of A.I.M.E., and received an advanced fee scholarship. LeRoy was scribe, house manager, and assistant house manager for Sigma Rho, is also listed in Who's Who, and participated in intramurals.



Frank A. Wills

Frank is a native of Butte. He has received Freshman fee scholarships. He was a member of the Copper Guards and president of the Chess Club. He has also played intramural football.

There will be 11 men who will receive their Master of Science degrees. They are the following: Erwin Bauer, Robert Hill, Bert Lake, Young T. Mock, Raymond Murry, Robert Shogren, A. S. Brar, and C. O. Gale will receive their degrees in Metallurgical Engineering.

Joseph Chelini and Alec Lindquist will receive degrees in Geological Engineering. Joseph Michael Keane will be granted a degree in Mineral Dressing. Samuel Higinbotham will also receive a degree in Mineral Dressing.

James Vincelette and Frank Bazzanella, who have completed their required courses previous to the conclusion of this semester and will also receive their Bachelor of Science degrees.

Additional graduates that we have no information on are Manfred H. Dexling, John J. Gergurich, and Marlo Paulson.

Congratulations

to the

Class of 1966

Mr. Mark Krause, Jr.

#### A.I.M.E. holds dinner

A dinner meeting of the Montana Section A.I.M.E. was held on Tuesday, May 17, at Lydia's Supper Club in Butte. The main speaker for the evening was Mr. Mark Krause, president of the Society of Petroleum Engineers. His talk was entitled "Highlights of the Oil Industry in the United States." Mr. Krause is presently employed by the Humble Oil and Refining Company in the capacity of Joint Interest Manager of the East Texas Division in Houston, Texas. His widespread experience and professional abilities make him extremely well qualified to expand on this topic.

Another guest at the A.I.M.E. dinner was J. B. Alford, execu tive secretary of the Society of Petroleum Engineers and publisher of the Journal of Petroleum Technology.

Mr. Krause and Mr. Alford came to Butte from Tulsa, Oklahoma. They departed from Butte by auto to Great Falls where they boarded an airliner to Calgary. Dean Stolz was in charge of the arrangements for the two



Mr. Joe B. Alford

Visit your friendly little change maker soon . . . at-

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Dr. Thomas A. Parker

One doctorate and five professional degrees will be awarded at the sixty-sixth commencement of Montana Tech on June 5.

These degrees are Doctor of Engineering, honoris causa, to Alvin W. Knoerr, editor of "En-gineering and Mining Journal"; and professional degrees as follows: Robert E. Baarson, mineral dressing engineer; John H. Morrison, consulting engineer of the firm of Morrison-Maierle, Inc., Helena, professional engineer, engineering science; George R. Powe, general manager, properties and industrial development department, Northern Pacific Railway Company, geological engineer; Dr. Thomas A. Prater, manager, metals processing unit, General Electrical Research and Development Center, metallurgical engineer; Norman Visnes, manager-northwestern mining department, American Smelting & Refining Company, engineer of

These degrees are in addition to the already announced degree of doctor of engineering, honoris causa, which will be awarded to Mr. Michel T. Halbouty, internationally known independent oil producer, consultant geologist and professional engineer who will



Alvin W. Knoerr

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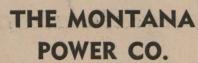
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# Six to receive Honorary Degrees



George R. Powe

be the commencement speaker. Knoerr joined Engineering and Mining Journal as assistant editor in 1944. Two years later he became associate editor and in 1953 was named managing editor. He has been editor since 1956. In the 20 years since Mr. Knoerr joined E&MJ, he has traveled extensively throughout Europe, South America, Canada, the Caribbean area, and the mining areas of the U.S. Among the notable features which resulted from his travels were articles on uranium, titanium, new exploration techniques, and revolutionary mining methods. Mr. Knoerr is co-author of the book, "Prospecting for Atomic Minerals," and is author of award-winning articles in both Industrial Marketing and Jesse H. Neal Editorial Competitions.

Before joining the editorial staff of Engineering and Mining Journal in August, 1944, Mr. Knoerr had been employed intermittently with the Sunshine Mining Company, Kellogg, Idaho, from 1937 to 1944, as mine laborer, mining engineering, and structural and mechanical designer. Mr. Knoerr received his bachelor's degree in mining at the Missouri School of Mines, Rolla, in 1939, and the engineer of mines professional degree in 1941. On two occasions he interrupted his field work to instruct in the mathematics, physics, mining and drafting department of the Wisconsin Institute of Technology at Platteville.



John H. Morrison

Baarson, a native of Great Falls, has held his present position since 1952. He served with the United States Navy from 1943 to 1946, was a research engineer with Eagle Picher Company from 1949 to 1950 and served again with the United States Navy from 1950 to 1952. He holds a bachelor of science degree in chemical engineering from Montana State University and master of science degrees in metallurgical engineering from Montana Tech. From 1962 to 1963 he attended the Advanced Management School of the University of Chicago. He has written articles in non-metallic mineral flotation and unit processes in hydrometallurgy.

Morrison, since 1945 president and chairman of the Board of Morrison-Maierle, Inc., was graduated from Montana State University in 1927 with a bachelor of science degree in chemical en-gineering and in 1931 received a professional degree in civil engineering from the same institution. He served as an instructor



Norman Visnes

at MSU from 1927 to 1930 and then joined the Montana Highway Department as a bridge designer and bridge engineer. He is registered as a professional engineer and land surveyor in Montana, Idaho, Oregon and North Dakota. Additionally he is registered in Montana as an architect.

Powe, born at Darby, Montana, received both his bachelor and master of science degrees in geological engineering from Montana Tech in 1935 and 1937, respectively. He was employed by the Anaconda Company as a safety engineer and assistant foreman until 1943 when he joined The Northern Pacific Railway Company as field geologist. He became assistant superintendent of the Northwestern Improvement Co., Roslyn, Washington, in 1947 and began his present position with the Northern Pacific Railway in 1953. Powe has written many unpublished private reports on the geology and resources of states in the Pacific Northwest.

Prater holds a bachelor of science degree from Montana Tech which he received in 1941 and both master's and doctor's de-grees from Pennsylvania State



Robert E. Baarson

University. He also attended Carnegie Institute of Technology. He was a research associate, instructor and assistant professor at Pennsylvania State and a research assistant at Carnegie Tech. Papers authored by him have appeared in Transactions of the American Society of Metals and the American Institute of Mining, Metallurgical and Petroleum Engineers.

Visnes, a graduate of Butte high school, received his bachelor of science degree in mining engineering from Montana Tech in 1940. He worked for the Ana-1940. He worked for the Anaconda Company as a research engineer until 1946, then joined the Rademont Mining Company as an engineer and in 1957 became a sales engineer for Joy Manufacturing Co. Articles written by Mr. Visnes on aspects of enerations at the Calena Mine. operations at the Galena Mine, Butte, appeared in the Mining Congress Journal in 1957 and 1961. He is a director of the Northwest Mining Association, serves on the Board of Western Governors of the American Mining Congress and is vice president of the Idaho Mining Asso-

The degree of professional en-gineer is awarded in recognition of a professional career spanning ten years, five years of which have been in a definitely responsible capacity. It is granted to



Thomas John Schneider

# Schneider wins scholarship

Thomas John Schneider, a senior at Granite County High School in Philipsburg, Montana, has been named the 1966-1967 winner of the Pan American Petroleum Foundation honors scholarship in Petroleum Engineering at the Montana College of Mineral Science and Technology.

The award was announced jointly by R. M. Morrow, Foundation vice president, and by Dean Gustav Stolz, Jr., head of the Petroleum Engineering Department at the Montana College of Mineral Science and Tech-

Thomas is the son of Mr. and Mrs. William J. Schneider, Philipsburg, Montana.

Mr. Morrow said Thomas will receive a scholarship award of \$700 for the first year, \$800 for the second year, \$900 for the third year, and \$1,000 for the

senior year.

After the first year, continuance of the award is dependent on the recipient's maintaining a B average or better in his college studies.

Thomas was selected as the winner by university officials who considered his high school record along with that of other applicants. The university will

administer the award.
Granite County High School will also receive a \$200 grant from the Pan American Petroleum Foundation to be used for the purchase of scientific equip-

"This award is part of the Foundation's program of encouraging talented young men and women to pursue their academic studies in fields that are important to the nation's future energy supplies," Mr. Morrow said.

He pointed out that the Foundation is currently sponsoring 32 undergraduate scholarships in geology, geophysics, engineering science in 16 leading universities.

"Enrollment in these disciplines have been declining for several years," Mr. Morrow pointed out.

"Since the American economy is highly dependent on abundant supplies of low cost energy, they feel that it is important to have young people of real ability turning their attention to the fields of study that will prepare them for careers in the energy indus-tries."

He said the \$200 award to Granite County High School is in recognition of the school's con tribution to the development of the nation's trained professional manpower.

"They hope this grant will enable the school to purchase some modern, needed scientific equipment in order to do a better job of preparing its students for further academic work at the university level," he added.

Pan American Petroleum Foun-

dation, Inc., was created and is supported by Pan American Petroleum Corporation, the North American oil and gas producing subsidiary of Standard Oil Company (Indiana).

persons who have contributed in an outstanding way to the furtherance of the engineering pro-



Thomas F. Lester

#### Lester succeeds Downey as coach

Thomas F. Lester, assistant football and basketball coach at Tech, has been named head of the physical education department and director of athletics at Montana Tech effective September 1, 1966.

Lester succeeds Gene Downey, who resigned to take over the assistant principalship at Missoula Sentinel High School.
Downey stated, "I regret leaving Tech, but I feel that it is a wonderful opportunity to further my education and it is directly in line with my educational background." He succeeds Joe Roberts, who is the new principal at Sentinel High, and will have duties in counciling, scheduling and transportation.

Lester is a graduate of Boys Central High School where he lettered in all major sports, and Marquette University, Milwaukee, Wisconsin. He received his B.A. from Marquette and is presently a part-time graduate student at Western Montana College of Education in Dillon. Lester expects to receive his masters degree this

He has been at Butte High School since 1962 where he coached the B teams at the school for two years before joining the Tech coaching staff. Lester originally taught sociology and English, but now is working in the field of rehabilitation. Before coming to Butte High he coached at Medicine Lake for

Lester will also assume the position of head football, basketball, and track coach of the Oredig-This past season he was assistant football and basketball coach under Downey and in 1964 helped the late Ed Simonich with football and basketball.

He is married to the former Betty Jensen and they have three children—Christine, 6; Dennis, 5; and Michael, 2. The Lesters reside at 1231 W. Quartz.



Coach Downey

#### Track team a success

The Montana Tech thinclads capped a successful season by placing fourth in the Western Montana Invitational Track Meet with 211/2 points, fifth in the MCC Meet with 16.

Joe McManus led the Orediggers with 7 points in the Dillon meet by placing second in the 880, fourth in the 440 and was a member of the relay team which placed second also. His times in the half and quarter were 2:05.0 and 53.7.

Frank Koskimaki placed third in the 440 with a time of 53.5 while brother Dave chalked up a third in the 880 turning in a time of 208.0.



Creighton Barry Most Valuable Player—Football

The Tech relay team was timed at 3:44.4 seconds in placing second in the relay. Members of the relay team were Frank Kosimaki, Dan Piazolla, Joe McManus, and Dave Koskimaki.

Creighton Barry soared over 11'6" to capture third in the pole vault. Karl Pack went 11' and Dan Piazolla vaulted over 10'6". Pack also placed fifth in the cen-

Joe McManus was again the hero of the hour as he captured first place in the 880 in the Montana Collegiate Conference Meet



Joe McManus Most Valuable Player-Track

in Billings Friday, May 13. Not only did Tech place first in the half, but Dave Koskimaki came far from behind to capture second. Downey in commenting on the races that McManus and Koskimaki ran said that it was a combined effort of intestinal fortitude and determination on the part of these two dedicated athletes that payed off in the end. McManus' time was 203.7, and Koskimaki's clocking was 204.9.

Frank Koskimaki also did an excellent job as he placed fourth



Gary Carlson Most Valuable Player—Basketball

in the 440 with a time of 52.4. Koskimaki not only turned in one fine performance in the 440, but in anchoring the mile relay team he ran another tremendous one in 51.7 seconds and brought the relay team in third. Downey also said that Frank was a dedicated and "gutty kid." He added that to run one good 440 in a day is quite a feat but to come back and turn in a faster time is incredible.

Creighton Barry, who has been improving rapidly all season, placed fifth in the pole vault with a vault of 11'6". Pack, in warming up, reinjured his leg muscle and was unable to compete. Barry also did a fine job this season.

Downey stated that now that the season was over he felt that his six-man track team did an exceptional job. He said, "these kids really worked hard." Downey also felt that with the potential that was walking around the school and those returning lettermen who were put on pro-



John Sutey Most Valuable Player—Baseball

bation, Tech could have easily won every meet this season, including the conference and district meets.

It is also rather remarkable to note that every member of the team scored in meets during the season and that the team as a whole scored on the average of three points per man, per

All six members of the track team lettered. They wer DanPiazolla, Karl Pack, Creighton Barry, Frank and Dave Koskimaki, and Joe McManus.

# Handball, badminton closeout intramural season

Intramural sports are drawing to a close for the year with the completion of the badminton and handball tournaments.

In the badminton doubles, singles and mixed doubles playoffs, the winner of t wo games out of three advances to the subsequent round. At the time of printing, round three had been reached in all three play-offs.

In women's doubles and mixed doubles, a game consists of 15

points, in singles, 11 points.

Women competing in this tournament are D. LaBranche, B. Angove, R. Boyle, C. Rask, M. Crowly, L. Downey, M. McGrath, C. Thornton, V. Henningsen, A. Robinson, P. Kelly, L. Chidley, C. Rice, R. O'Leary, J. Comstock, L. Plubell, J. Baird, D. Zeihan, A. Longing, P. Bisharde, M. Baird, D. Zeihan, A. Jones, H. A. Loggins, R. Richards, M. Pershe and L. Harrison, J. Platt, R. Boyle and M. Robins.

Men participating in the mixed doubles are: D. Carkeek, C. Hutt, J. Sutey, W. Stewart, E. Nordquist, D. Rule, J. Leifer, S. Hubbert, R. Backer, and M. Lynch.

Ahead after three rounds in the singles are: LaBranche, Crowley, Henningsen, Chidley, Rice, and Harrison. Leading in the doubles are Chidley and Rice, Shea and Rask, Henningsen and Baird.

In handball all but the finals have been played in the doubles. In the singles, things have progressed somewhat slower.

Playing in the singles are Dan McVeigh, David Cohen, Ted Tracy, Dan Carkeek, Fred Jense, Tony Buraille, Les Ocks, Joe Mattioli, Terry Sullivan, Jim Benny, Terry Angove, John Sutey, Howard Obenoff, Doug O'Connell, Joe Lee, Bob Corr, Phil Garcia, Dan Sabena, Joe Monahan, John Driscoll, and Mike Chapman.

Semi-finalists in the doubles playoffs were McVeigh and O'Connell, Carkeek and Johnson, Benny and Sullivan, Monahan and Sabena.

Games were not rigidly scheduled which led to a situation in in which several rounds were being played at once. There was, however, a deadline imposed for each round which, if not met, meant the default of both teams involved.

## Tennis club sets summer schedule

The Butte Tennis Club has arranged its 1966 summer program according to president Mike Fredrickson.

Club meetings will be held on June 2, 16, and 30, July 14 and 28; and August 11 and 25. The meetings are held at the Butte Y or the Excelsior Street tennis courts at 7:00 p.m.

The club will hold the Butte City Tennis Championships in August, with the possibility of other tournaments to be announced later. The club offers instruction to beginners, in connection with the City Recreation Department. For further information contact Mike Fredrickson, 792-9796, or campus representative Steve Hallock, 792-2060.

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Bill "Gooch" Robinson will receive a blanket for lettering four years in football. He will also receive a trophy. Gooch was a quarterback and linebacker, and was All-Conference honorable mention in 1963. He belongs to the "M" Club, Theta Tau fraternity as regent. He was also president of the Student Body for half a year in 1966. Gooch is a scholarship recipient and belongs to the A.I.M.E., and was president of the sophomore class. In 1963, he was the champ of the handball tournament. He was also chosen as captain of the football team in 1965.

Bill is a junior majoring in Mining Engineering and will return to Tech next year to grad-uate. He is also a member of the "Billings Five."



Mike Lewis

Mike Lewis, one of the smallest men to play football for Tech, began his career in 1961 under the late Ed Simonich. He will receive a trophy for earning three letters. Mike played as a quarterback, linebacker, and guard. He also was president of the General Students Club; vice president of the sophomore class; secretary-treasurer of the junior class. He belongs to the "M" Club, Newman Club and the Circle "K." In 1961, he was a State A.A.U. boxing champ. In intramurals, Mike was a weightlifting champ and was a member of the Boedecker's Bombers.

Upon leaving Tech, Mike will go to work for the Boeing Company in Seattle and will finish college in night school as an accountant. He is also a member of the "Billings Five."



Tom Downey

Tom Downey, junior general student, received a trophy for lettering three years in football. He played as a linebacker and halfback. Tom has been a state A.A.U. weightlifting champ for three years. He was a member of the Boedecker's Bombers and instructed weightlifting training in P.E. Tom organized the General Students Club and was delegate of the Student Body. He was also vice president of the Circle "K" Club and belongs to the "M" Club. He was on the honor roll and received a scholarship. Tom has been sports editor, associate editor, and is the present editor of the Amplifier. He was awarded an honorary degree by the seniors at Kangaroo Court.

Tom plans to quit school and try his luck at fiction writing. He was also a member of the "Billings Five."



Bill Daily

Bill Daily, a junior, will receive his trophy for earning six letters in the three major sports: football, basketball, and track. He was president of the "M" Club for half of year. Bill has been on the honor roll two years and has received an honor scholarship. Presently, he is on the Dean's probation list. He was also the captain of the Boedecker's Bombers.

For his stellar play on the gridiron, Bill was All-Conference fullback, honorable mention this season. He was chosen as a most valuable back and co-captain by the team. He is a petroleum en-



John Giacomino

John Giacomino received a trophy for lettering three years in football, as a middle line-backer. He has been the secretary of the General Student Club, is a member of the "M" Club, Circle "K," and the Newman Club. John has participated in intramurals and was a member of the Boedecker's Bombers, champs of the basketball league.

His future plans include trans-ferring to Western where he will major in secondary education so that he may teach and coach upon graduation. He is also a member of the "Billings Five."

# Billings, Laurel dominate lifting championships

Bob Heiser of Laurel, Montana, was awarded the best lifter trophy at the Montana State Championships and Mr. Montana Contest held at the Butte Y on Saturday, May 14. Dave Madsen of Eastern Montana College, Bil-

lings, won the Mr. Montana title.

Team laurels were awarded the Yellowstone Barbell Club for the second consecutive year. Team members are Bob Heiser, lightheavyweight; Lewis Andrews, Billings, heavyweight; Steve Hallock, Butte, heavy-weight; Derek Smith, Billings, middle-heavyweight; Dave Mad-sen, Eastern Montana College,

light-heavyweight; Ron Blomquist, EMC, featherweight; Bob Ulschak, Laurel, middle-heavyweight, team captain. Rocky Mountain College, Billings, placed second with 19 points, behind Yellowstone's winning 27 points.

Tech placed one lifter, Steve Hallock, in the individual place standings. Heavyweight Hallock placed second and middleweight Tom Downey was fourth.

The Mr. Montana Contest was won by Dave Madsen with 19.8 points. Steve Hallock was runner-up with 19.6 points and Siemer, Montana State University, was judged third with 18.2 points.

Class champions and their respective total weight lifted are: Phil Sanderson, 123-pound division, 490 pounds; Ron Blomquist. 132-pound division, 460; Mike McIntire, 148-pound division, 560; John Stefonsky, Glasgow AFB, 165-pound division, 625; Bob Heiser, 181-pound division, 720; Bob Ulschak, 198-pound division, 705; Lewis Andrews, Billings, 775.

State records set at the championships are: Phil Sanderson, 123 - pound division, 155 - pound snatch; Bill Kraske, 181-pound division, 290-pound clean and jerk; Bob Heiser, 181-pound division, 720 total. Heiser's outstanding total consisted of a 240 process 205 snatch and 175 along the standing total consisted of a 240 process 205 snatch and 175 along the standing total consisted of a 240 process 205 snatch and 175 along the snatch and press, 205 snatch, and 275 clean and jerk, all performed at a body weight of 176 pounds. Meet director was Steve Hallock. The Butte Y awarded trophies to all place winners, the outstanding lifter, and the winning team.



John Sutey

John Sutey, sophomore, will receive a trophy for lettering two years in three major sports: football, basketball and track. He played as halfback and was chosen a Most Valuable Back by the team in 1965-66. He was chosen All-Conference honorable mention. John is a member of the "M" Club and the Theta Tau fraternity. He was a delegate to the Student Council and will serve as secretary for the coming 1966-67 year. He received a Freshman Scholarship and has been awarded a fee scholarship for next year.



Pat Marx

Pat Marx will receive a trophy for lettering three years in basketball. He has already received a blanket for four years of lettering. Pat earned a letter in football in 1965. He was a member of Theta Tau fraternity and was Student Body Delegate in 1964-65. This school year Pat has been procter of the Dorm.



Bob Bathiser, Mike Thompson, Daye Fenton, Ed Norquist.

# Tech golfers win

Montana Tech's golf team, consisting of Bob Balhiser, Mike Thompson, Dave Fenton, and Ed Norquist, closed out the golf season by taking second place at Lake Hills Golf Cub, Billings, Montana. The meet, won by Northern Montana College with the low score of 341, saw five Montana colleges compete.

Other scores at the Billings contest, held on May 13, were: Montana Tech, second place, 347; Rocky Mountain College, Billings, third, 347; Carroll College, Helena, fourth, 349; Eastern Montana College, Billings, fifth, 350.

Ed Norquist was low for Tech with 82, Dave Fenton scored 86, Bob Balhiser, 86, and Mike Thompson 91.

The Montana NAIA golf season opened in Helena with Montana Tech defeating Eastern Montana College and Carroll College in a triangular golf match on Saturday, April 25, at the Green Meadows Country Club.

Tech had 13 points, Carroll 12½, and Eastern 10½ points. Tech's Ed Norquist was the meet's medalist with an 81.

At a tournament held here in Butte on May 9 Tech's Dave Fenton scored 78, two strokes behind the meet's medalist. Carroll College captured the team title followed by Montana State University, Bozeman, in second place, Montana Tech third, Rocky Mountain fourth, and Eastern Montana College, fifth.

Tech's team practiced free of charge at the Butte Country This was the best season Tech's golf team has experienced.

# Horsehiders sport perfect record

Tech's diamondmen failed once more to break into the winner's column as Carroll swept a week-end double-header Saturday, March 30, in Helena. Carroll's 5-0 and 21-1 victories brought Tech's record to six losses as opposed to no wins for the season. Carroll's conference record stands at 3-3.

John Sutey, plagued by poor support in the field, gave up only four hits in the opener. The opposing pitcher, however, allowed only two hits. Tech was unable to score on either, due to the Saints' tight defensive play.

In the second game third base man Ken Tholstrom started on e mound for the Orediggers but was stormed over in the third stormed over in the third inning. Sutey went all the way in the opening game.

Tech's hitting was weak throughout the series as the team totaled only seven hits for the two games. The Saints did considerably better with three players collecting four hits apiece.

Tech drubbed here The following week end saw the same od story played over before a rather sparse crowd at the Duggan Memorial Field as Tech lost its seventh and eighth consecutive games, bringing its conference record to 0 8. Eastern Montana College, the victors in Saturday's games, upped their Montana Collegiate Conference baseball record

to 7-2 the easy 15-1 and 10-0 wins over last-place Tach. In a performance reminiscent of the previous week's games, the Orediggers committed 17 errors, 11 in the opener and six in the nightcap. Although Tech has been bothered all season by loose de-

fensive play, this was undoubtedly their worst showing of the year. In the first inning of the first game Eastern capitalized on two Tech errors to score twice. From this beginning EMC scored with amazing ease for the remainder of the game. In the third inning, three more Montana Tech errors helped Eastern to push across five more runs. Eastern Montana's other scoring came with four more runs in the fourth inning, two runs in the fifth and two more in the sixth for a total of fifteen.

On the mound for Eastern Montana was Jack Sullens who allowed the Tech team only four hits. Ironicaly, Tech's only run of the day was unearned, coming in the fifth inning of the first

game. Eastern players were not too chagrined at this fact, however, since almost half of their own runs were unearned.

Eastern performed almost flawlessly in the field, committing only one error in the opener and none in the second game.

At the plate Eastern completely eclipsed Tech as well. Pitcher Sullns collected two hits in securing himself the victory while teammates Rick Lucero and Jack Bayne had three hits apiece. In all, Eastern scattered fourteen hits during the first game. Tech had trouble with Eastern's pitching depth and managed to come across with a scant seven hits in the two games, four in the first and three in the second.

John Sutey started on the mound for Tech but was jerked in favor of Ken Tholstrom in the fourth inning after giving up 11 runs. Sutey started again in the nightcap and went all the way.

The second game was discouragingly like the first. Tech's miscues in the first inning resulted in two runs. The same thing happened in the second inning and Eastern was on its way to its second win behind the three-hit pitching of Davev Konzen and John Astorica.