Nine seniors are named to Who's Who

Dr. Adam Smith struck and killed by care; Tech mourns his untimely death

The 72nd annual Northwest Mining Convention was held in Spokane at the Davenport Hotel on December 2 and 3. Montana Tech was represented at the convention by 12 students, four faculty members, and three staff members of the Montana Bureau of Mines and Geology. Over 2,000 people attended the two-day convention. There were 45 speakers who spoke on various subjects related to the mining industry.

The students and faculty arrived in Spokane on Thursday, December 1, and toured the U. S. Bureau of Mines research station. On Thursday night they attended a dinner party for alumni and students of Montana Tech.

Registration and the General Session were held on Friday morning. Eked Anderson, president of the Northwest Mining Association, gave the address of welcome. Henry L. Day, president of Day Mines, Inc., gave a speech entitled "Mining and Milling Practices 40 Years Ago in the Cour D'Aleurs." Milton A. Pearl, director of the Public Land Law Commission, concluded the general session with a speech entitled "Future Land Policies and Our Unseen Empire."

A joint meeting of the Mining Association and Spokane Chamber of Commerce luncheon was held before the afternoon sessions. On Friday afternoon there was a Geology and Exploration Session in a Land Session. During the Geology and Exploration Session, free speakers presented papers on new geology and exploration and recent geological work. The speakers during the Land Session discussed new policies in the use of public land. A cocktail party, buffet dinner, and a dance completed the opening day.

The Saturday morning sessions were preceded by the annual Moose Milk Breakfast complete with stage entertainment. The two Saturday morning sessions were the Exploration-Mining Panel, and the Gold-Silver Session. The Exploration Panel dealt with the results of recent exploration programs. The Gold-Silver Panel was a panel discussion of the future of gold and silver and the economic problems associated with this.

The AIME luncheon was held Saturday afternoon. The two afternoon sessions were the Mining Session and the Canadian Session. The Mining Session dealt with new developments and improvements in mining methods, while the Canadian Session was devoted to recent mining and exploration activity in Canada. The convention was concluded with the regular business meeting and the annual banquet.

Christmas Concert to be presented

The Butte Symphony, Choral Society, and Junior Chorale will be heard in a Christmas concert at the Montana Tech auditorium at 2:30 Sunday. Students may attend upon presenting activity tickets.

Beginning the program will be "Gloria in Excelsis," words by Martin Luther, with brass, percussion, and combined choral groups. The orchestra will be featured in Haydn's charming "Toy Symphony," "Noel" from "The Seasons" by Tchaikowsky, "Christmas Fantasy" by Anderson, "Gloria in Excelsis," "The Trumpet Vase" by Runner, and "The Bell Carol" by Sowerby.

The major work of the program will be the Christmas Oratorio of Saint-Saëns, with strings and adult chorus, soloists, and orchestras. This seldom performed work is immensely melodic, well deserving more recognition.

Other choral works include "Pittsburgh," arranged by Simonne, and "The Night Before Christmas" by Darby (with orchestra). The Junior Chorale will be heard in "Fin A Star on the Twinkling Tree" by Enig and "The Drummer Boy."

This is the second concert of the 1966-67 series.

Students named for inclusion into Who's Who in American Universities and Colleges are Chuck Parrett and George Ann Thurston, seated, and, standing, from left to right, Bob Seidel, Hank Scholz, Angus Hemp, Will Goldberg, Jim Loomis, Dave Koskimaki, and Ken Tholstrom.

Montana College of Science and Technology
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BUTTE, MONTANA

Dr. Adam Smith struck and killed by care; Tech mourns his untimely death

Dr. Adam J. Smith, head of Montana Tech's Department of Mathematics, was killed Wednesday evening, November 30, when he was struck by a car at Granite and Idaho down. The driver of the car was George Patrick Kelley, Jr., 24, of 315 West Granite, who was driving west in Granite when the accident occurred. Dr. Smith lived alone in the Mueller Apartments, 501 West Granite, and was apparently on his way home when he was struck down.

Dr. Smith was born May 5, 1912, in Philadelphia, Pennsylvania. He received his bachelor's degree in mathematics from the University of Pennsylvania in 1937, his master's degree in 1929, and his Ph. D. in mathematics at the same school in 1934.

He was an assistant instructor in math at the University of Pennsylvania from 1927 to 1929; an instructor of math at the University of Texas, 1929-30; an instructor at Long Island University, 1930-32; assistant instructor at the University of Pennsylvania, 1933-35; a professor of math at Syracuse University in Pennsylvania, 1935-42; and an assistant professor at the College of William and Mary in Virginia, 1942-43. In 1943, he joined the staff of the math department at Montana Tech and has served as head of the department since July, 1945.

He was a member of the American Mathematics Society, the Mathematical Association of America, Sigma Xi, the Montana Academy of Science, and the American Society of Engineering.

Commenting on the loss to the school, Dr. E. G. Koch had the following words to say in tribute to Dr. Smith: "The untimely death of Dr. Adam J. Smith on the evening of Wednesday, November 30, 1966, was an unexpected shock to students and..." (Continued Page 3, Column 4)

Stacks of books and papers on any space available illustrate the crowded conditions in the Regional Science Laboratory building. Requirements for a growing school, a new office is being constructed on the third floor of the Library-Museum Building. The Old Museum, where mine models were once displayed, will become the new office.
Yes, Santa, there is a Christmas
by STEVE BAIER

Although children can not yet comprehend the many concepts associated with Christmas, they can understand and appreciate the usefulness of a jolly man who devotes his life to bringing happiness to people in the form of gifts. Thus, for their children, parents have conjured up the exciting vision of St. Nick, the clause who brings them wonderful presents on Christmas. So successfully has this vision been formed, that Christmas has become the most eagerly awaited day of the year.

As these children grow older and begin to see the reality beyond this illusion, they learn the reasons we now celebrate Christmas, and good will toward our fellow man. At this stage, Santa Claus is replaced by the Christmas spirit.

Perhaps the fantasy we knew so well early in childhood has been too successfully created. In a way, we hate to give it up completely, for we still remember the electric excitement of anticipation and the thrill of finding gifts beneath the tree on Christmas. Many parents want to please their children as much as possible to see this thrill reapplied on their faces. They seem to feel that more presents will be even more effective. But hasn't this gone too far when the child, after opening all his presents, looks up with a half-disappointed, half-anguished expression and asks "Is this all?"

If we could ask Santa Claus, who would have to be the expert on gifts, what the best gift is, he would surely say "Love, patience, and understanding." These are gifts that cannot be bought with money. Maybe, for that reason, they are so difficult for Americans to give in these prosperous times. There is no denying that the exchange of Christmas gifts has become a vital factor in the growth of our economy, but no present can be an adequate substitute for the love a child needs.

We are a strange people. We can give so much in one sense, yet give so little.

From the desk of the president

Is the SUB bursting at the seams?

Once there was an engineering college called the Montana School of Mines. As the school gained recognition, its enrollment grew and new facilities were required. The Student Union was constructed to meet these needs.

However, since the enrollment is still growing, a question is directed to those people responsible for any construction done on campus: is the present SUB adequate for our present enrollment? Please note the accompanying picture, which was taken at a regular dance.

Once there was a rumour about expanding the SUB. Why has nothing been done when the situation so clearly warrants a change. How can we expand our educational curriculum with our present student facilities and finances? Gentlemen, we can't.

School spirit rare

Our basketball teams won a game two weeks ago, even with new cheerleaders(3). The "V" was lit for the first time since October. Congratulations team and fans! But why were there fewer fans at the second game? Your team had an excellent chance of winning two games in a row, a feat rarely accomplished at this school, and there was less support for the second game than the first. There is no interest and no support, a trade mark of Montana Tech that is as well known as the quality of its engineers.

A special thanks to those 110 students who took an interest in our open student council meeting.

--- Hank Scholz
Pres., ASMT

Crowded dances, as can be seen above, indicate the need for expanded facilities and room in the SUB.

**Maps are an important method of summarizing structural details in Geological Engineering. Dr. Newman and Gary Dahl inspect such a map prepared by Don Birchols for a seminar.**

**Geological Engineering offers purposeful careers**

Geology is the science of the earth and all other earth-like bodies in the universe. Geological engineering is the application of this science to man's needs; the search for fuels and metals, the provision of adequate supplies of water for consumption by men and industries, the construction of roads, bridges, the careful planning of modern communities, even the landing on the colonization of the Moon and other planets.

**Personal requirements**

What sort of people enter the field of geology? They are people who have a great deal of curiosity and are not easily discouraged by nature's incessant rebuffs. The vast scale of the features and the grandeur of the process is what must be dealt with, and the largely unpredictable and unmeasurable variations in the materials involved, of necessity make this a relatively inexact field. The geological engineer, then, will approach the solution of a problem from an engineering (mathematical) viewpoint, but only rarely does he concern himself with mathematical models. His calculations to the degree normal to engineering practice, or even his guesses, are more concerned with the degree of accuracy necessary in the actual environment. Commonly those factors that can be quantified only through the exercise of his own judgment, are handled, and he is further aided by the need to perform many calculations that can be physically measured.

**Training**

Geological engineering, therefore, tends to be a science of common sense, and an engineering field based largely upon judgment. This is reflected in the training of the geological engineer, who emphasizes the development of sound character and judgment, as the basis for instruction, and the development of logical engineering is based largely upon judgment. This is reflected in the training of the geological engineer, who emphasizes the development of sound character and judgment, as the basis for instruction, and the development of logical engineering.

What sort of work do geological engineers engage in? They have the opportunity to quantify the many contributions that they make this a relatively inexact field. The geological engineer, then, will approach the solution of a problem from an engineering (mathematical) viewpoint, but only rarely does he concern himself with mathematical models. His calculations to the degree normal to engineering practice, or even his guesses, are more concerned with the degree of accuracy necessary in the actual environment. Commonly those factors that can be quantified only through the exercise of his own judgment, are handled, and he is further aided by the need to perform many calculations that can be physically measured.

**Geological Engineering offers purposeful careers**

Geological engineering is an important field and a necessary one if we are to develop the geological data required before a well-site is chosen and a well is drilled. They are concerned with interpretation of stratigraphic, structural, sedimentational, and other data needed in order to predict the location of oil deep beneath the surface. State and Federal bureaus and field exploration for private companies occupy another 15% of the graduates of the department. These occupations are grouped together because both are largely field oriented. Work involves map-
Hilma Smith and Henry Mc McClernan reveal interests

Dr. Adam J. Smith will be best remembered by his students for his terse classroom comments. Several of us students are getting together to compile an anthology of anecdotes about Dr. Smith and his classes. When published all money above expenses of publishing will go into the Adam J. Smith Memorial fund, which is to be used to make an honor award each year to the outstanding student finishing his second year of college math. Anyone having a favorite story or two about Dr. Smith which would belong to the above mentioned anthology by either sending me and telling me about it or sending it to the following address: Ernest Bond, Residence Hall, Montana Tech, Butte, Montana. The name of the contributor will appear at the end of each story.

On one occasion, just before a test, someone asked Dr. Smith how many questions there would be on the next test. Dr. Smith said “Not more than twenty. If I asked you all the questions that I would like to, you would be here about three hours working them and I don’t think I want to be around you more than an hour.” The class broke up in laughter

Another time a student asked, “Why is it to the zero power always one?” Dr. Smith looked at the student and demanded, “Why is one and one always two?” The student thought over his confusion and said, “Because it is.” And Dr. Smith told him, “You have just answered your own question.”

And then entering a living room brightly lit by a Christmas tree? After that, he is frustrated by houses lation explosion, coupled with the convenience. This is a severe loss to the college and to the countless numbers of students with whom he has been greatly benefited by his excellent teaching in years to come if he had not been so suddenly taken from us. Dr. Smith was extremely well prepared in his chosen field of mathematics, and practically every student who graduated from this institution since Dr. Smith’s as- sumptions of teaching duties in 1943 values highly not only his excellent instruction in mathematics but also his friendship for a dedicated teacher.

This faithful teacher was never too busy to talk to students, to answer any questions of either students or faculty and could be depended upon for wise and considerate counsel. The memory of his loyalty and service to his chosen institution will be long remembered at Montana Tech.

CARERS IN STEEL

We are running Santa Claus sagged?

Santa Claus is not one to complain, but we have felt for some time that there must be things that bother him or create problems. Accordingly, we placed an undercover poster on the bulletin board in the Placement Office.

3. And whoever started the prac- tice of leaving milk and cookies out for him? It’s pretty bad to jump up a chimney after eating 2,000 pounds of cookies and drinking 700,000 gallons of milk.

4. Children are no longer cons- trued with a few simple presents for Christmas. They now want many large, elaborate toys. You’d better believe that Santa is not the only one building a list of room in his sack. The fact is that his toy sack will no longer hold all the presents he must deliver. This has forced him to initiate a recruiting telegram similar to that used by the Air Force. If you see two sleighs with reindeer, there is not an important reason, just see- ing him take a new set of toys for delivery.

5. Montana Tech is a fabulous place and it looks like it here every much. Hilma’s hobbies include sewing, singing, and music in general. She also enjoys watching Tech games. Her dislikes are Saturday classes and homework over the holidays. Henry is a senior in geological engineering. His present courses are Metalliferous Economic Geolo- gy, Ore Mineralogy, Sedimentation, Economics, Psychology (culture course), and Hydrogeology (special problems in stratigraphy). He hopes to obtain a master’s degree in either Economic Geology or Hydrogeology.

Henry is the Archon of the Sigma Xi Fraternity. He is a member of the National Rifle Association and the American Institute of Mining, Metallurgical, and Petroleum Engineers.

During the summers, he has worked as a surveyor with the Fort- worth Service. He has also been a geo- logical field assistant with the Monta- na Tech Geological Project, as well as with the Water Resources Division.

Hilma enjoys fraternities functions, field trips, and also attending dances

Student Council holds open meeting at convocation

The Student Council, as an experiment, held an open meeting during a convocation November 29 in the Museum Building. The ASMT by-laws provide that members of the audience may participate in an open meeting with 300 students constitut- ing a quorum. However, since only 110 students were present, no vote could be taken on any subject discussed.

The meeting was brought to order by President Henry Schiel. The minutes of the previous meeting were read by Secretary John Sotey and approved as read. Mr. Burt, business manager, explained the rea- son for having voting members of the school and stated that profits from them will go into the snack bar operating account.

Discussion also included items of immediate concern to the school, such as the appropriation of funds to the various clubs. It was decided that money would not be available unless the whole student body benef- ited from the club’s activities. It was ruled that announcements of the major dances must be posted two weeks prior to the dance, and two days prior to minor dances. The by-laws were amended to in- clude the election of new cheer- leaders every year.

Dr. Smith killed

(Continued From Page 1) faculty aide at Montana College of Mineral Science and Technology. This is a severe loss to the college and to the countless numbers of students with whom he has been greatly benefited by his excellent teaching in years to come if he had not been so suddenly taken from us. Dr. Smith was extremely well prepared in his chosen field of mathematics, and practically every student who graduated from this institution since Dr. Smith’s as- sumptions of teaching duties in 1943 values highly not only his excellent instruction in mathematics but also his friendship for a dedicated teacher.

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CAREERS IN STEEL

Our representatives will be on campus

FEB. 6 to interview undergraduates and graduate candidates for Bethlehem’s ’67 Loop Course—engineering and management training

OPPORTUNITIES are available in steel plant operations, sales, research, mining, accounting, and other activities.

DEGREES required are technological, metallurgical, electrical, chemical, industrial, civil, mining, and other engineering special- ties; also chemistry, physics, mathematics, business administration, accounting, and liberal arts.

If you would like to discuss your career interests with Bethlehem’s representative, make your placement officer an appointment for an interview appointment.

An Equal Opportunity Employer in Education and Employment for Program Progress

BETHLEHEM STEEL
ORE

DINGGINGS

Connie Boston, a freshman, graduated last year from Butte High School. She likes school but avoided answering the question on how she felt about the ratio of boys to girls.

She plans on eventually transferring to Eastern Montana College to major in sociology and possibly minor in physical education. Connie is usually found in classes, the SSB, or studying for a history test in the library.

Jacefline Boyd is a part time freshman. When she isn't at school, she is somewhere in this area of the state teaching dancing for Virginia's school of Dance, which teaches in Butte, Dillon and surrounding areas.

Jackie thinks school is "great" and she finds her "classes very stimulating." She plans on transferring to the University of Utah for her junior and senior years to obtain a major in dance and a sociology minor.

John McEnaney, better known as "Bud," likes it here. As for school, he is most likely to be found in the gym or the sub, rarely in class. Among sports he says basketball and baseball are his favorites. "Bud" plans on going into engineering.

Dong Lientemann, freshman, graduated of Butte High School, says that Montana Tech is one of the very best schools in state. His only complaint is that he cannot graduate from here because it does not offer any degree other than engineering. Dong plans on going to Missoula to obtain a degree in business. Dong's favorite sports for his personal enjoyment are hunting and skiing when winter comes.

Wait LeProwse is a freshman here but a professional and old time player of the card game of hearts. He hires out to anyone who does not know how to take in the most points. Wait was manager of the football team and received his letter for the M club this year.

Carol Ann Trythall is one of the many freshman students from Girls Central High School. Carol really likes it here and plans on graduating from here in engineering. Carol's only comment was "I'm a republican."

Fashion spotlights: velvet for holidays

There is a new "in" look for the holiday season. Metallic fabrics are fashionable. Both men's and women's fashions have a wide variety of styles and colors in velvet. For the men, there are velvet shirts in everything from smart collars and V-necks. The girls too, have a large selection. Short or long dresses, accentuated with the fur or metallic trim that is really "in," make the scene in a rainbow of colors. Long sleeves, too, have returned to the fashion bradles, and the opposite, no sleeves, is also popular.

Metallic fabrics are fashionable. Lounging robes, cocktail dresses, and evening gowns glitter with the threads of silver and gold, intertwined with the familiar holiday colors. The holiday season, on the fashion front, promises to be bright.

When you ask three girls or boys, as the case may be, who have filled out similar forms and have recorded similar answers, you with three girls or boys, as the case may be, who have filled out similar forms and have recorded similar answers. This system has been used on other campuses throughout the country. One girl was paired with her twin brother, and there have been instances where the computer found husbands and wives to be the wrong match.

Does this mean that the world will be run by computers, even to the point of choosing the social company for man? Will they really replace man, even to this extent? It seems unlikely. We may be a nation of sitters and watchers, but there is still enough adventure in our spirit to make us want to find our own social partners, and we've been doing a pretty good job for quite a few centuries, haven't we?

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Petroleum Engineering scholarship is available

A scholarship in petroleum engineering, which will be given by Pan American Petroleum Foundation, will be available to a freshman entering Montana Tech in the fall of 1967. The Pan American Petroleum Foundation, Inc., will give 16 new four-year scholarships in engineering, geology, and geophysics for the 1967-68 school year.

Scholarships will be given to colleges throughout the United States, and each will provide donations of $2,100 a year.

These scholarships, which were started two years ago, encourage students to enter petroleum-related sciences. Because of the past success of the scholarship program, it has been continued.

Pan American Petroleum Foundation is supported by Pan American Petroleum Corporation, Oklahoma, the North American exploration-production subsidiary of Standard Oil Company (New Jersey).

The Foundation president, F. R. Yost, explained that a high school senior with an overall high school grade average of "B" or better may apply for a Pan American scholarship. Students from the colleges with a Pan American scholarship are to be notified of the need for their assistance. To keep the four-year award, a student must maintain a "B" average through college.

The president of the Foundation also explained that the demand for geologists, geothermal scientists, and petroleum engineers will increase by 50 per cent in the next 10 to 15 years.

Philip C. McCaslin, head of the Department of Petroleum Engineering, said that the need will be greater than ever. McCaslin said that the Department of Petroleum Engineering is prepared and distributed by Mr. McCaslin. The fifth problem is received from the head of the department in which the student is majoring. In order to receive an "A", the student must complete all five problems correctly. Four correctly completed problems receive a letter grade of "B", three a "C", and on down to a failing grade. The final two problems must be fed into the computer by the student himself.

In operating the computer, the student punches out his problem on a card and feeds it into the computer, where more errors are encountered. An object deck is then made and fed into the computer for another test. The answer is usually submitted for checking.

Ideas for improving the program include a larger core storage for the computer and the building of a large computer in Bozeman. Tech students would use the Beaver computer by means of a data phone.

Computer orientation is offered to Tech students this year. Tech students may take Computer Orientation under the supervision of Mr. McCaslin, head of the Department of Petroleum. The one credit course is offered under the title of "Petroleum Engineering." The computer language is translated into the engineering language through means of punch cards.

During the year the students are given five problems. The first two problems are made up by the students, while the third and fourth are prepared and distributed by Mr. McCaslin. The fifth problem is received from the head of the department in which the student is majoring. In order to receive an "A", the student must complete all five problems correctly. Four correctly completed problems receive a letter grade of "B", three a "C", and on down to a failing grade. The final two problems must be fed into the computer by the student himself.

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Tech tramples Mount Royal team twice

By controlling the ball and playing an all-out basketball game, Montana Tech swept past Mount Royal Junior College 98-67 Friday night, December 2.

Sophomore John McEeney, 6 foot, one inch forward, led the Orediggers with 20 points. Scoring 15 points apiece for Tech were center Gary Carlson and forward Pat O'Brien, both 6 feet 3.

During the first period of play Mount Royal came out with 29 points, and Tech ran ahead with 46 points.

The second and final period of play saw Montana Tech make a total of 10 points to win the game and have a final score of 67-44.

Tech scored 44 additional points for a total of 90.

Last year, the Orediggers visited the Canadians and lost two games. Officials were Jim Combo and Mike Delany.

Montana Tech defeated Mount Royal 82-62 on Saturday night, December 3. The victory was Tech's second over Mount Royal Junior College, giving the Orediggers a sweep of the two-game series played here.

Montana Tech took command in the opening play and led 47-34 at the half. They held the edge through the remainder of the game and managed to increase their lead to 20 points at its conclusion.

John McEeney, scoring 18 points, led the Orediggers' scoring attack. He was assisted by Pat O'Brien with 11.

The two wins give Tech a jump on the season's record. Last year, Tech won only one game in 18 starts.

Although the win was not as spectacular as Friday night's 90-67 victory, it represented a fine game of ball control as it was first. It also indicated the readiness and improved skill of this year's squad.

The Orediggers will meet Dawson Junior College Friday, January 6, and Carroll Saturday, January 7, in Butte.

American education how big is it?
How big an enterprise is American education? A look at a few figures should tell.

To begin with, there are 2,511,000 teachers, including 1,025,00 public school elementary teachers, 159,000 non-public school elementary teachers, 781,000 public high school teachers, and 77,000 non-public school teachers. College and university professors number 257,000 and 209,000 for public and non-public institutions respectively.

55,000,000 students are enrolled in America's schools, including 4,000,000 in the public institutions, 2,000,000 in private. There are 36,000,000 children in grades one through eight and 13,000,000 pupils in high school.

The total cost of the operation is $4,800,000,000.

Some of the activities in the Physical Education Department that students can participate in are shown above. At the upper left, Harry Bowers, Kirk Handov, and Stan Cox try some weight-lifting exercises. At the lower left, Ron Verbeck and Ed Chebel enjoy a session of fencing. Ron Verbeck and Ed Chebel also engage in some boxing at upper right. Ron Duran, William Woolverton, Gary O'Farrell, and Ed Monahan like a good game of handball.

Various P.E. activities offered

The physical education program at Montana Tech offers many extra activities to its students. Among these are boxing, fencing, bodybuilding and weight lifting, handball, wrestling, basketball, and gymnastics. All are under the supervision of Coach Lester.

Boxing is one of the many activities possible. The gym has several pairs of boxing gloves as well as a head gear to protect the student from injury.

Helping coordination and agility is fencing. Included in the equipment are foil, a mask, and a sword.

Body building and weight lifting are actively participated in by many gym students. In addition, a weight room is available, equipped with weight lifting necessities.

All sports are available for wrestling. For gymnastics, Tech is equipped with mats and a parallel bar. Handball and basketball courts are available during the day for all who wish to use them.

Physical fitness is open to all men who desire it.

"There are children playing in the street who could solve some of my top problems in physics, because they have modes of sensory perception that I lost long ago."—Robert Oppenheimer

ADVISER"