

1-15-1959

## The Amplifier - v. 5, no. 6

Associated Students of the Montana School of Mines

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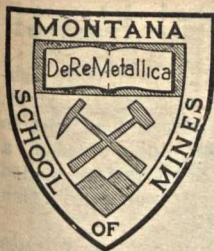
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### Recommended Citation

Associated Students of the Montana School of Mines, "The Amplifier - v. 5, no. 6" (1959). *Amplifier (1955-1977)*. 56.  
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### American Bill of Rights Went Into Effect 167 Years Ago

The Bill of Rights—the first 10 amendments to the Constitution—went into effect 167 years ago, December 15.

It not only guaranteed certain rights and freedoms but was the cornerstone for amendments added to the Constitution later.

On this anniversary Americans, priding themselves on the principles of their democratic society, can ask themselves individually:

- 1. Do I really believe in the rights and freedoms—for all men—guaranteed by the Constitution?
- 2. Or is it only freedom for me I believe in—including freedom to deprive others of it when I disagree with them or dislike them?

Here are some rights and freedoms guaranteed by the Bill of Rights:

Freedom of speech, religion and the press; freedom from being placed on trial twice for the same offense; freedom from being compelled to testify against yourself in a criminal case; the right to trial by jury; the right to confront a witness against you.

Even the framers of the Constitution did not believe in equal freedom for all men living under their democratic society. They put no ban on slavery.

That did not come till later, many decades later, after great changes in American thinking. The same with the right of all Americans—born or naturalized—to vote.

By asking yourself a few questions, you can test your devotion to the principle of equal rights and freedom for all men.

Say you are a member of certain religious faith:

Would you, if you could, deny to any or all other religious groups and sects, and atheists, the right to say or write publicly what they think?

If you are an atheist, would you deny that right to people of religious beliefs?

You cherish the right to vote:

Would you deny that same right to some other individual or group—Negroes, for instance—because you dislike them or fear their eventual political power?

You may hate communism but there is no law against being a Communist.

Would you, who prize freedom of the spoken and written word, deny a Communist the right to say in public what he thinks, even though it is critical of the American government?

The Constitution's Fifth Amendment guarantees a man the right to refuse to answer a question which he thinks might incriminate him.

Would you deny a man—any man, ranging from a gangster to a Communist—the use of the Fifth Amendment to avoid saying something which might incriminate him?

All the questions come down to this basic one:

Is any man ever free to secure under his constitutional guarantees

if another man can be deprived of them because of mass hysteria, group pressure or things like racial or religious prejudice?

If it happens to one man today, tomorrow it can happen to the man who did it to him, since all that is needed is a change in majorities, emotions or group attitudes.

### Douglas on Turkey

Mr. Neil Douglas, noted world traveler, spoke today on "Turkey—Yesterday's Tomorrow." He illustrated his talk with films.

There will be one more convocation on Wednesday, January 21, concerning the Blue Shield Insurance Plan. All students are urged to attend this meeting as it concerns the entire student body.

Two convocations for February and two for March are also being scheduled.

### Alien Address Report Program

All aliens in the United States, except a few diplomats, accredited members of certain international organizations and those admitted temporarily as agricultural laborers, must report their addresses to the government each January.

Forms for this purpose are available at any Post Office or office of the United States Immigration and Naturalization Service. They may be filled out in those offices and returned to the clerk from whom received. Parents or guardians are required to submit reports for alien children under fourteen years of age.

If you or any members of your immediate family are not citizens of the United States you should tell your parents of these requirements. If you have relatives or friends who are not citizens, you will do both them and the government a great service by telling them of the requirements. Remember, the time for reporting is during the month of January.

### From Here to Economy

Douglas H. Harnish, Jr., Chief, Petroleum Division, Montana Bureau of Mines and Geology, Butte,



DOUGLAS H. HARNISH, JR.

Montana, has written an article for "World Oil," a national magazine specializing in exploration, drilling, producing operations, and management of the oil industry. The article appeared in the November issue and is entitled, "Economics of Secondary Recovery in Montana."

In his article Mr. Harnish states that if secondary recovery were practiced in the fields that have been studied on a small scale already, the gross value affecting the Montana economy would be in the neighborhood of \$942 million.

Some of the problems encountered in such an enterprise and also some of the technical difficulties which would arise are mentioned. Mr. Harnish states how much research must be done in order to achieve the desired results and some of the methods by which this goal may be reached.

The article, with its vivid graphs, charts, and generalized stratigraphic sections of Montana oil and gas fields, is of concern to anyone interested in the future of oil and gas in Montana.

### ASEE-NFS Sends Mission to USSR

The following is the report on the investigation recently made by U. S. educators in the U.S.S.R. The trip was sponsored by the American Society for Engineering Education and the National Science Foundation. This report seems to indicate that if the American student is to compete with the Russian student, he will have to work hard at it. Although the United States has no desire to emulate Russia in regimentation and discriminative selection, rigor of U.S. curricula must meet that of Russia, and the academic attitude of U.S. students must meet that of U.S.S.R. students if U.S. engineers and scientists are to compete with U.S.S.R. in future years.

The whole economy of the U.S.S.R. is integrated into a broad plan administered by an agency known as GOSPLAN. The formulation of the portion of the master plan related to engineering education is the responsibility of the Ministry of Higher Education.

A long-range plan covering a period normally of five years (currently seven years) is formulated first. Each year this master plan is modified to take into account the accomplishments actually achieved in the previous year. The plan considers the needs of the whole Soviet Union in the light of:

- a) the expansion of industrial plant capacity,
- b) the need for replacements
- c) the replacement by professional people of non-professional people

(Continued on page 4)



CHRISTMAS FORMAL HIGHLIGHTS 1958 SOCIAL SEASON AT MINES

### Student Wives Hold Christmas Party

The School of Mines Student Wives Club held a Christmas party in the home of Mrs. E. G. Koch, 1315 W. Park, Wednesday evening, Dec. 17. The business session was conducted by Mrs. Walter Enderlin, President.

Following the meeting, gifts were exchanged and Christmas carols were sung. Miss Myrtle White, Mrs. George Vivian and Mrs. William Judd entertained the members with several piano selections.

Refreshments were served by Mrs. Claud Pickard, Mrs. Peter Sweeney and Mrs. William Wayment from a table decorated in a Christmas theme.

### Coeds Sponsor Christmas Formal

A shimmering tree, sparkling dance floor, a gracefully shaped dome ceiling of crepe paper streamers, and soft music emitting from a beautifully silhouetted stage banked in pine boughs completed the setting for the Christmas Formal which was held on December 18.

This dance, the first to usher in the holiday season, was attended by a large crowd of students, faculty, and alumni. Dancing was from 9 until midnight. Refreshments were served.

Members of various committees were as follows:

- Invitations: Sandi Maddock
- Special Committee: Gail Madeen, Sandi Maddock
- Publicity: Judy Delmoe, Jeannie Sigurdson
- Decorations: Billie Todd, Dolly McCollum, Sandy McGonigle, Jacquie Trythall, Gail Madeen, Sandi Maddock, Susanne Dunlap.
- Silhouettes: Linda Lewis, Judy Delmoe.

### Bride Takes Coffin To Wedding Rites

The vow "to love, honor and cherish until death do us part" in Christian wedding ceremonies is literally taken by Japanese brides in Hieki, Japan.

By local tradition, all village brides take a coffin to their wedding ceremonies as a symbol of their determination to stick by their husbands until the day they die, reported Reuters.

Pending her funeral, she uses the coffin as a chest for clothes.

### COMING EVENTS

#### JANUARY

- 19—Basketball, Northern (there)
- 20—Basketball, Carroll (there)
- 22—International Club Public Meeting
- 23—Basketball, Northwest Community College (there)
- 24—Basketball, Northwest Community College (there)
- 30—Basketball, Western (there)

#### Recommended Reading Assignment for the Week

Economic Geology Vol 47, No. 2 pp 220-223

### Insurance Convocation

Wednesday, January 21  
10:15 A.M.

A discussion will be held concerning the Blue Shield Group Insurance Policy for MSM.

VOTING WILL FOLLOW!

All students should attend!



# The Amplifier

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Subscription Rate \$1.50 per year  
 Published bi-monthly during the academic year

ARTCRAFT PRINTERS  BOZEMAN, MONTANA

## EDITORIAL

On Wednesday, January 21, the new Blue Shield health insurance policy will be presented to the student body. Every student should make an effort to acquaint himself with this policy before the convocation is held.

It's not a question of voting in one policy and pushing aside the other. The old policy will be retained whether or not the new policy is wanted. If the new policy is voted in, every student would be paying \$23.25 for nine months of insurance instead of the \$7.50.

Many students do not know to what extent they are covered by the present policy. This policy costs \$7.50 per student per academic year. For this, students receive necessary medical and surgical care exclusive of hospitalization, major surgery, and tonsillectomy. The policy pays a maximum of fifty dollars each semester per student. A student can, with this policy, pay for an eye test, physical, extraction of teeth, office calls, and medicine.

The new policy will not pay for the first two office calls a student might make. Beginning with the third office call, it will pay approximately \$3 for each call. It does not pay for physicals, eye examinations, and only for the replacement of extraction of teeth in case of an accidental injury.

The new Blue Shield policy is designed more for protection against a major operation requiring surgery and a period of time in a hospital. Many of the students are included in their parents' insurance policies. These students would actually be paying for two policies when one is all they need.

Everyone is urged to attend the convocation on January 21 and to vote as he sees fit. Remember, if you do not show up and the voting does not meet your approval, you are the one to blame, not your fellow students.

## Heard In The Halls . . .

That the vacation is over.  
 That the residence hall was peaceful and quiet during vacation.  
 That you cannot get in the main lounge while "Wyatt Earp" and "Gunsmoke" are on.  
 That some Californians turn off the stoves at night when it is 20 degrees below zero.  
 That the coeds are going to have a taxi dance.  
 That on New Year's Eve many students, using the closest thing to the universal solvent, tried to put themselves into solution and became super-saturated and precipitated before this chemical phenomenon could be accomplished.  
 That the fatality rate of the holiday weekends will not be as disastrous as the end of the semester rate.

## FOR SALE . . .

End of the year clearance. All stock must go. Drastic reductions. No exchanges or refunds, please. 160 yards of cheesecloth in good condition; 8 pounds blue glitter; assorted varieties of crepe paper; plastic foam cut in star shapes; ribbons, miscellaneous decorations, one small bottle glue, and other odds and ends. Free gift wrapping. Sorry, all sales cash. Store hours: 8 to 5 in the bargain basement of Main Hall.

## Ode To A Coed

Twinkle, twinkle, little coed,  
 How I wonder why you glitter.  
 'Cause you're in debt,  
 You're all atwitter.  
 Do not worry. Do not fret.  
 Some idiot will solve it yet.

He asked for a seat on the next rocket flight to the moon.  
 "I'm sorry, sir," said the passenger agent. "All flights to the moon have been cancelled for the next few days. The moon's full right now."

The Texas oilman, barreling along the highway in an expensive car, screeched to a stop to pick up a hitchhiker. Climbing in, the young fellow noticed a pair of thick-lensed glasses lying on the seat.

As the telephone poles began flying by in a blur, he grew more and more uneasy. "Beg pardon, mister," he finally ventured, "but don't you think you ought to wear your glasses while you're driving?"  
 "Shucks, son, don't let that bother you," drawled the Texan. "This here windshield is ground to my prescription."

In Portuguese East Africa the authorities have a neat way of collecting taxes but we have grave doubts that it would work in our social system. If a native doesn't pay, they put his wives into jail until he comes and redeems them.

## Gert's Guidance

Dear Aunt Gert,  
 While demonstrating an experiment to my lab class, I noticed my hands shaking involuntarily. As this was quite obvious to everyone, I was very embarrassed. Because this immediately followed the holiday season, I could not explain to them that this was a re-occurring service disability. How can I make them understand?

A Graduate Student

Dear Grad,  
 Don't you know people go to Hell for lying?

Dear Aunt Gert,  
 The coeds put on a dance and it was a nice dance as dances go. But it seems the spending went haywire, for the coeds took this opportunity to do their part in curbing the recession. Now they have 160 yards of cheesecloth, \$14.00 worth of blue glitter, miles of stretched crepe paper, odds and ends, and a deficit in our funds. What do we do now?

Frantic

Dear Frantic,  
 We have several possible solutions.

1. Use the cheesecloth and glitter for making glitter socks and sell them to the students.
2. Buy a cheese factory.
3. Use the crepe paper as fuel for a bonfire and stage an all-school weiner roast.
4. Mix the glitter with something else and sell it as a sweeping compound to the janitors.
5. Hold an auction.
6. Have a good cry. You can cry for days with all that cheesecloth.
7. Make safe stairways a coed project and sprinkle your glitter on the stairs as a non-slip substance.
8. Make wedding dresses from the cheese cloth for your hope chests.
9. Use the crepe paper to decorate the business office.  
 or if worse comes to worse
10. Make souvenirs from the stuff to sell the tourists visiting debtors' prison.
11. Have the coeds make a rope ladder from the cheesecloth to throw over the prison wall and throw glitter in he guards eyes.

P.S. Business administration is taught at the University.

## CAREFUL

Trust everyone, but cut the cards.

Salesman: "Sir, I have something here that's guaranteed to make you the life of the party, allow you to win friends and influence people, help you forge ahead in the business world, and in general make life a more pleasant place and invigorating experience."  
 Engineer: "I'll take a quart."

There are only two ways to handle women. Does anybody know what they are?

The mama bull, the papa bull and the baby bull set out to go to the fair. After walking a mile the mama bull became tired and sat down to rest. A mile later the papa bull got tired and he sat down to rest. But the baby bull walked all the way to the fair.

Now there's a moral to this story, and it is, "sometimes a little bull goes a long way."

Committee: A group that keeps minutes and wastes hours.

## Funny Ha! Haws!

A German and Russian were fishing on opposite sides of the river. The German caught fish after fish while the Russian didn't even get a bite. Finally the Russian yelled across, "Why is it you catch fish and I get none?"  
 The German thought a minute and then replied, "I guess on your side they are afraid to open their mouths."

A fugitive scientist from a horror picture dreamed up a serum that brought inanimate objects to life. He tried it out on the statue of a great general. Sure enough, the statue gave a quiver and the general, creaking a bit on the joints, climbed down from the pedestal. The scientist was overjoyed. "I have given you life," he exulted. "Now tell me, what is the first thing you're going to do with it?"  
 "That's easy," rasped the General, ripping a gun from his holster. "I'm going to shoot about two million pigeons."

Stopping for gas at crossroads service station in West Texas, some parched travelers asked the attendant what kind of store the fellow across the way was running, in the hope that cold drinks were sold.  
 "Well, he has auto parts for sale," the attendant said, "and butter, eggs and poultry. He deals in real estate, paints houses, marries folks as justice of the peace, runs the post office, sells ham, molasses and so forth, and takes boarders upstairs. I reckon you'd call it a drug store."

Getting ready to baptize the infant, the minister asked, "His name, please?"

The mother answered proudly, "Randolph Morgan Montgomery, Alfred Van Christopher McGoof."

The minister turned to his assistant, "A little more water, please."

A persuasive Texas real-estate man had just finished a glowing description of the opportunities to be found in West Texas to a prospect from Chicago. "All West Texas needs," said the realtor, "to become the garden spot of the world is good people and water."  
 "Huh," replied the prospect. "That's all hell needs."

"Oh, here's the place Mother told me to stay away from—I thought we'd never find it."

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Martinich stiff-arms Trapper while making two

### Trappers Defeat Miners, 76-50

Showing the effects of the long Christmas holiday, the Orediggers lost to Northwest Community College Trappers from Powell, Wyo. The Trappers won the game by a score of 76-50.

The Trappers have won games from Rocky Mountain College and Eastern College of Billings. Having played many more games than the Miners, the Trappers looked much better than the Orediggers and are in much better shape.

The Orediggers were unable to practice during the long vacation because of students going home and because their gym was being repaired. The Miners went into the game Friday night with just three days' practice in over three weeks.

A lot of hard work and some more games are needed by the Orediggers if they are to make a good showing in the Montana Collegiate Conference. They open the conference with Northern College of Havre.

The Trappers took charge of the game from the opening minutes and were never in any trouble. They were helped greatly by many Miner miscues. They led at half-time by a score of 39-25.

Stan Takerichi was high scorer for the Wyoming team with 19 points as Bob McElhany added 13. Ray Martinich led the Miner attack with 15, Mel Bennett added 12 for the losers.

Mines 50	G	F	P	T	NWC 76	G	F	P	T
Bennet	6	0	3	12	Jones	3	0	1	6
Mahagin	0	3	2	3	McElhny	5	3	2	13
Weaver	0	0	1	0	Takerichi	8	3	2	19
Hgnbthm	1	2	1	4	Adams	6	0	0	12
Thompsn	2	0	2	4	Hunter	5	0	2	10
Good	1	0	0	3	Teagardn	4	3	4	11
Herring	2	0	1	4	Clark	0	0	0	0
Lane	1	0	0	2	Nelson	0	2	1	2
Martnch	6	3	2	15	Bischoff	0	2	1	2
Hines	0	0	0	0	Crosby	0	0	0	0
Boulter	0	0	0	0	Cheathm	0	1	3	1
Pavli'ski	0	0	1	0	Totals	31	14	16	76
Hash	1	1	0	3					
Totals	20	10	13	50					

Score at half: NWC 39, Mines 25.  
Officials: J. Wedni; J. Kello.

Foreman: "What's the idea of quitting?"

Riveter: "Oh, I don't mind hammering rivets all day, but the man who works with me hums incessantly."

\*\*\*

A person who claims that absolute zero is impossible to obtain hasn't taken a quiz in physics yet.

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### Mines Invite Russians; Invitation Declined

Ed Simonich, coach and athletic director at Montana School of Mines, Thursday wired Vasilyi Sosajev, director of the State Committee of Physical Sports for the Soviet government, inviting the Russian hockey team, now on tour of the U. S. to play the School of Mines in the Civic Center here.

The Russians played Colorado College in Colorado Springs last night, then play Denver University.

Simonich, in his wire to Sosajev, said, "The Montana School of Mines would like very much to have your hockey team play the school team in the Butte Civic Center. Please let us know if you can, and what financial arrangements would be necessary."

Saturday, Coach Simonich received word from Vasilyi Sosajev, director of the State Committee of Physical Sports for the Soviet government, that the Russian hockey team would be unable to play the Mines ringsters here during the Russians' current tour of the country.

Simonich had wired Sosajev Friday inviting the Russians to come to Butte. The Soviet team whipped Colorado College in Springs, 11-5 Friday.

Sosajev, however, said that if the Miners were still inclined to play the Soviet sextet later, he'd be agreeable to coming here after the team plays in the winter Olympic games. "Would like to see Butte," was Sosajev's comment.

### Miners Have Full Schedule

The Miners plan to play the Bombers, Creston, B.C., and Salt Lake, and possibly the Great Falls Americans.

Play between the Bombers and Miners is certain to attract city-wide interest, but poses a problem for two players, George Bronson and John Schulhauser who are on the Bomber squad, but who also play for the Miners. They'll probably play for the School of Mines against the Bombers, and with the Bombers against outside talent.

The Miners, prior to the holidays, practiced three nights a week at the Civic Center, but will have their home rink ready upon start of classes in January. Many of the boys, during the vacation period, played with their hometown hockey teams in Canada.

Coach Simonich is hopeful that there will be two or three games between the Miners and the Grizzlies to determine the collegiate hockey title of the state.

The Orediggers have looked good in practice so far and are hoping for a successful season. The School of Mines did well last year in competition with the Butte Copperleafs and are hoping to do even better this year with a larger variety of competition.

### The VEGAS CLUB (Meaderville's Finest)

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### Repeat Performance

In an almost identical game of the night before, Northwest Community College again defeated the Miners. The score was 78-55.

The Trappers had little trouble in winning again although the Miners grabbed the lead in the opening minutes and came within seven points in the waning minutes of the game. At this point three of the Miners fouled out and the Trappers jumped ahead to win going away.

Both teams emptied their benches during the contest.

Jerry Adams paced the winners with 17 and Stan Takerichi added 15. Harlan Higinbotham led the losers with 11 points, three of the Miners adding 8 apiece. The Trappers led at half-time by a score of 37-25.

The Miners looked better than the night before, but could not find the range. They only made 13 out of 71 shots for a percentage of 18.3.

Mines 55	G	F	P	T	N'WT 78	G	F	P	T
Bennet	3	2	5	8	Jones	6	0	5	12
Mahagin	0	8	5	8	McElhny	2	3	3	7
Weaver	3	0	1	6	Takevchi	6	3	5	15
Hgnbthm	2	7	3	11	Adams	7	3	4	17
Thompsn	1	3	5	5	Hunter	5	1	4	11
Martinich	3	2	3	8	Teagardn	1	3	5	5
Good	0	0	1	0	Clark	0	0	0	0
Lane	0	1	1	1	Nelson	3	0	3	6
Pavlikow-ski	0	0	0	0	Bischoff	1	1	1	3
Herring	1	4	2	6	Crosby	0	0	0	0
Boulter	0	0	1	0	Cheathm	0	0	0	0
Hines	0	0	1	0	Totals	32	16	30	78
Walkup	0	0	0	0					
Hash	0	2	0	2					
Totals	13	29	28	55					

Officials: Glen Welch, Pat Kenney.  
Half Time: Mines 25; Northwest 37.

It was the little boy's first day at school and the teacher was making out his registration card. "What is your father's name?" asked the teacher.

"Daddy," replied the child.

"Yes. I know, but what does your mother call him?"

"She doesn't call him anything. She likes him."

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Bennett passes to Weaver

### Miners Lead In Scoring

The School of Mines Orediggers basketball team led the small colleges of the nation in free throw shooting percentage. These statistics are compiled through January 3. The Miners have made a total of 46 free throws out of 59 for a percentage of .780. Three cheers for the Orediggers.

When Eddie, the slow-moving and inefficient clerk in the village store, was not on hand one morning, a customer asked, "Where's Eddie? He isn't sick, is he?"

"Nope," replied the proprietor. "He just isn't working here no more."

"That so?" responded the customer. "Got anybody in mind for the vacancy?"

"Nope. Eddie didn't leave no vacancy."

\*\*\*

The driver is safer when the roads are dry, and the roads are safer when the driver is dry.

\*\*\*

Indistinct: Where people put dirty dishes.

The setting was a grain and feed store. The telephone rang.

"Send me," said an unknown voice, "a bale of hay and a sack of oats." After jotting this down, the clerk asked politely, "And whom are they for?"

"For the horse," said the angry voice. "Who did you think?"

\*\*\*

The children were being taken on a tour of the mint.

"Why is it," one of them asked, "that they stamp 'In God We Trust' on the pennies?"

"That," explained the guide, "is for the benefit of people who use them for fuses."

\*\*\*

"I seem to have run out of gas," he said softly.

Her face, small and tender, white and anxious, was turned up to his, her eyes glowing from beneath heavy eyelids. Her head swam.

Slowly he bent over her, with hungry eyes upon his goal.

Relax . . . he was her dentist.

### Howie's Supper Club

Charcoal Broiled Steaks  
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Sea Foods - Prime Rib

3544 Harrison Ave. Ph. 9741

### Know Butte . . .

### FAMED MISSOULA LODE

The Missoula Mining Company made the first mining location in Silver Bow County. According to records the location was named after the mining company.

The first location notice was very simple. It read: "The Missoula Mining Company did on July 18, 1864, locate a claim in Summit Valley District, Deer Lodge County."

Then followed the 19 names, each claiming 200 feet east and west along the vein, the width of which was not given.

The second location on record was made by William J. Lawson. The mine, he said in his location notice, "was discovered about 250 or 300 yards west of Silver Bow Creek, and about one and one-half miles northeast of the recorder's office in the Summit Valley Mining District." That made the mine difficult to locate in later years—because the recorder's office moved many times from '64 to the '80s.

### THE ANACONDA COMPANY



## Mission To USSR—

(Continued from page 1)

sional personnel not adequately trained.

The seven year plan now being formulated contemplates that an average of 350,000 graduates in all professional fields (engineering, science, medicine, languages, etc.) will complete their training each year. This is an increase of 40 per cent over the average of the past seven years, but in engineering it is proposed that the increase shall be 90 per cent.

The master plan specifies:

- The number who may enter institutions of higher education,
- the number who may train for each field of specialization,
- the quota of each specific institution for each specialty,
- the jobs which will be available at the time of graduation.

Such planning demands that each student (at present upon graduation from the ten year school at the age of 17 or 18) must choose irrevocably a narrow field of specialization when he applies for admission to college. Alternatively, he may postpone this decision by temporarily entering industry; under changes now contemplated, this period of industrial experience may become obligatory.

The rules allow the student to apply for only one field of specialization in one institute in a given year. Furthermore, he commits himself to work in the particular phase of industry for which the course is designed.

If he fails to secure admission in a severe competition (but one which varies in its severity with the field and institution), he may not apply for higher education for another year.

While the student makes a commitment as to his field, the goals and objectives of the plan may be changed by the State from time to time. Thus, specific curricula will be shifted to a similar specialty in which additional manpower is needed. They may, however, be allowed additional time, up to six months, to adjust to the change.

As indicated above, changes in the program are now under consideration. These include:

- revision of the amount of industrial practice required,
- broadening of the base of some curricula,
- changing the number of students in specialties to fit the revised industrial program.

It is understood that the secondary school program is also undergoing critical analysis with a view to making extensive changes, but the delegation did not have time or opportunity to study this.

Since Society engineering education is planned to fulfill the specific needs of the state, it is tailored in considerable detail to the jobs to which the young engineer will go upon graduation.

The curricula are narrowly specialized in their objectives and prepare the students to be immediately useful to industry with a minimum of additional training. This results in dividing engineering into some 160 separate specialties such as mechanical engineer-automobile designer or mechanical engineer-automobile maintenance. This contrasts sharply with less than 20 fields accredited in the U.S., of which the great majority of students are included in about five fields.

The duration of the full-time day program is 5 or 5½ years. The first two years are broadly based on mathematics and science. But from the day of his matriculation the student pursues a specialty. For the most part he meets, in lectures or laboratories, only with other students taking the same program. The illustrations in mathematics, physics, chemistry, mechanics, etc. are selected to emphasize their application to his field.

The last three years consist of increasingly specific courses, often built around design projects, industrial practice, and an elaborate diploma project requiring one semester of full-time work. These projects involve extensive detailed drawing and are intended to acquaint the student both with principles and prevailing practice in his specialty.

The young Soviet engineers are well grounded, and their best men are as good as any in the world. However, it appears to the delegation that many must be limited in their outlook by knowing little engineering outside their own narrow field.

Nowhere is the engineer and scientist held in higher regard than in the U.S.S.R. Engineering students and practicing engineers are exempt from military service. Indeed, engineers and scientists are among the aristocracy of Soviet society. There is, therefore, strong motivation and social pressure to aspire to such careers.

An engineering education opens the door to positions of high rank. On the other hand, to achieve such positions without some type of diploma would appear virtually impossible. In general, the limit of achievement of the non-graduate in an industrial enterprise is the position of foreman, while this is considered the minimum position for a graduate.

A motivation factor not to be underestimated is the strong devotion to a system that greatly encourages education. Those who qualify for admission to an institution of higher learning need not be concerned because of a lack of financial resources. Grants are provided by the state in sufficient amount to care for basic needs.

A system that offers such unique advantages to the educated instills a strong desire for higher education in the youth of both sexes. Currently about one-third of the total enrollment in the schools of engineering technology is comprised of girls. Competition for admission is keen. The planned economy provides one opportunity for every three to nine applicants, depending on the prestige of the institution and the importance attached to the specialty.

Since students may make only one application for admission in a

given year, the less able are motivated to apply for admission to a specialty in which there is a minimum of competition rather than to the specialty of their first choice.

As a result of these factors, a seriousness of purpose pervades the classroom and laboratory. This is clearly evident to the most casual observer. The students themselves have a genuine respect for intellectual achievement and disdain for the laggard.

For example, we saw cartoons on bulletin boards drawn by students to scold those who do poorly in their work. We also saw a statue of a student studying his lesson on the way to class and were told that poor students are hazed by their fellows before this symbol.

In this atmosphere, approximately 90 per cent of those who gain admission to the day schools complete diploma requirements and 50 per cent of those in evening and correspondence programs graduate.

We also observed that the educational system is able to adapt itself not only to changing industrial needs but also to the wide ranges in human interest and ability. The system recognizes the tendency of the most able people in intellectual fields to make their best contributions when associated with others of comparable attainment and in an environment quite largely of their own choosing.

It was observed that able people in the U.S.S.R. prefer to work in the larger cities and the older institutions, where cultural and intellectual activities are most widely available. Hence, the strongest faculties were found to be associated with educational institutions in these centers.

While the detailed program for a given specialization is the same for a large number of institutions offering that specialization, the Ministry of Higher Education recognizes that the level at which these topics will be taught must depend upon the background and ability of the professors.

Some fourteen outstanding institutions offer more advanced and individualized curricula. These institutions are given greater freedom in changing their curricula from the prescribed pattern. Modifications of appreciable magnitude are usually approved by the Ministry with little delay.

These institutions, as well as the stronger industrial groups and research institutes, are expected to provide leadership in changing programs to meet new scientific and engineering developments. It also appears that competition to enter these institutions is keener and that they attract the most able students from all over the Soviet Union.

For several years there has been much expressed difference of opinion in the U.S. concerning the quality of technological education in the U.S.S.R. This mission has had the opportunity to observe classes in operation, to talk with teachers and to examine curricula. It is clearly evident that thorough, scientifically based programs of study are in operation.

Laboratory equipment is of good quality and in ample supply but varies appreciably between institutions. In addition, considerable imagination has been used in developing equipment to demonstrate basic principles.

Textbooks appear to be in ample supply and carefully prepared. They are encyclopedic in nature and include much practical information in addition to the theory. Furthermore, an extensive background in mathematics is required to follow accurately much of the text material. It appears that the entering student knows as much mathematics and somewhat more physics and chemistry than college freshmen entering the better engineering schools in the U.S.A.

The Soviet 5- and 5½-year curricula afford time to give a good theoretical background in addition to much practice with problems specifically related to the student's specialty. However, the members

of the Mission agree that engineering education in the U.S.S.R. cannot be compared realistically with that in the United States because Gal. FOUR—AMPLIFIER it is tailored to quite a different system.

The delegation was accorded every courtesy by the Ministry of Higher Education and by the faculties of the institutions that were visited. Competent interpreters were made available, who also became friends we would like to see again. Transportation facilities were on hand whenever needed—from Leningrad to Frunze, a range of 2,500 miles.

A genuine spirit of friendliness prevailed in the discussions of educational matters, which were free and uninhibited. Much interest in developments in U. S. education was manifested and a strong desire was indicated for participation in exchange missions to the U.S. We look forward with pleasure to the visit of the U.S.S.R. delegation.

## Car Registration

All vehicles using the campus parking facilities at Montana School of Mines must be registered (or re-registered) in the Dean's office immediately after the owner obtains the new license plates. Vehicles not registered (or re-registered) will be tagged and subject to a fine.

## The Little Brown Dog

A story by David Baker

It was the first dog the little boy ever had for his very own. He named it Spot because the little brown dog had a white spot in the middle of its back. The little boy played with his new friend, Spot, from morning till night. Spot wagged its tail and chased the boy and the little boy chased the dog until both were so tired that they fell asleep together. The little boy talked constantly to the dog as though it were a little brother or sister. When Spot was bad, the little boy scolded the dog, but he soon was sorry and let Spot lick his ears. At the dinner table the boy talked about nothing except the dog, until finally his mother said, "I do believe that boy loves the dog more than me."

Now the father of the little boy drank too much and had a terrible temper. The little boy had long since learned to keep out of the way when his mother said that father was "sick." One day the boy and the little brown dog were playing in the living room, when the shouting drunken father came into the room. The little boy immediately crawled under the table, but the innocent little brown dog, who did not know about the father, barked a friendly bark and ran towards the enraged man with his tail wagging. The drunken man threw a vase at the little dog, but he widely missed his mark. The little dog, thinking that the man was playing games, came forward to nuzzle the man's legs. The angry man took a good look at the little brown dog with a wagging tail, and with one brutal kick lifted the dog off the floor and out through the second-story window.

The cleaning woman gaped at the dog flying through the air. The gossiping neighbors across the alley stopped talking and pointed. The little boy went down the stairs backwards, one by one. The neighbors were so busy talking about what had just happened that no one noticed the little boy tenderly holding the lifeless bundle of fur in his arms.

## Geology Seminar

There will be a seminar held in room 200 Main Hall at 4:05 p.m. on Monday, January 19, 1959. Mr. Kenneth Fox will discuss Metallogenetic Provinces of Montana. All interested persons are invited to attend.

### NICE WAY

"Did you say you enjoyed being fired from your first job?"

"Sure did enjoy it. The manager called me in and said, 'Son, I don't know how we'll ever get along without you, but starting Monday we're going to try.'"

A lady bought a parrot from a pet shop only to learn that it cursed everytime it said anything. She put up with it as long as she could, but finally one day she lost her patience. "If I ever hear you curse again," she declared, "I'll wring your neck."

A few minutes later she remarked rather casually that it was a nice day. Whereupon the parrot promptly said, "It's a hell of a fine day."

The lady immediately seized the parrot by his head and spun him around in the air until he was almost dead.

"Now then," she said, "It's a fine day, isn't it?"

"Fine day!" exclaimed the parrot, "Where in the hell were you when the cyclone struck?"

... and then there was the one about the Canadian student home for the Christmas vacation.

To welcome him home, the father took the youngster to a matinee. As is usual, before the rise of the curtain, the band struck up "God Save the Queen." Up piped the student's voice, singing, "My country 'tis of thee..."

"Oh, my sainted aunt!" breathed his lordship. "The poor boy's been brainwashed."

### SOCIAL PROGRESS

Johnnie's mother very eagerly opened his first letter from camp. It read:

"Dear Mom and Dad — Camp is swell. My first day I didn't know anyone. The second day I made five friends. The third day I had a black eye, three friends and two enemies."

Thomas Gillard

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