NEW COURSES AT SCHOOL OF MINES

If Legislature Passes Measure Under Consideration It Will Be Means of Allowing Students of Butte and Anaconda to Take First-Year Here

(10 Prof. W. T. Scott)

Added courses with a greatly increased attendance next year at the School of Mines may result if a measure recently introduced in the state legislature is passed at the present session. Thus far the proposal has been the most interesting and commented-upon measure suggested to the Solons and is receiving much editorial comment around the state.

The bill as presented to the House and passed there January 16, provides for a recommendation to the State Board of Education that enough work be added to the present freshman courses at the School of Mines to take care for one year of students who wish to graduate in any standard course offered in the University of Montana at its other institutions, the State University at Missoula, the State College at Bozeman, and the State Normal College at Dillon. At present the School of Mines is limited to offering work that directly pertains to the mining and metallurgy degrees.

The friends of this proposition have very strong arguments to bring forward. They point out that the School of Mines, with its new buildings and equipment, is in a position to take care of between 250 and 300 students. Although mining and metallurgy are not getting as much as they should, the work is progressing and it is necessary to offer the courses leading to the mining and metallurgy degrees.

WILSON MAKES TRIP TO SEATTLE

Prof. Curtis L. Wilson of the chemistry and metallurgy department went to Seattle and Bremerton January 20, where he spent several days making metallographic tests for the Wilson Chemical Co. The problem was to investigate the cupro-vaunadinium, ferro-titanium, and ferro-vaunadinium used by the United States government at the navy yard foundry for making high-grade castings, requiring an extra tough metal. The Wilson company is investigating these metals, believing that they may solve some of their problems in the construction of rolls and crushers.

When the work at Bremerton was finished Professor Wilson spent a day at Seattle visiting the University of Washington. He reports that the building which housed the school of mines was burned last December with nearly a total loss of equipment. The result is that the fifty students in mining and metallurgy are somewhat scattered about the campus, pursuing their work.

Professor Wilson was the guest of Prof. C. R. Corey, Montana Mines '95, and now professor of metallurgy at the University of Washington.

BASKETBALL

Mines 15, Dillon Normal 9.

On the night of January 9 the Mines basketball team won from the Dillon teachers by a score of 15-9 after two extra five-minute sessions. The repeated tie scores indicate the rapid advancement of these new professions, it has had to contend with much prejudice arising out of ignorance, but fortunately it has come from the nonprofessional class with an excuse for not knowing.

The work of the geologist is largely the application of engineering principles to the solution of geologic problems and if I were to attempt a definition of the problems, I would classify them in two categories: those involving geologic history and those in the physics of the earth--structure. In any case the answer demands a field investigation and very careful correlation of the facts obtained. Of course, all information available from a reliable source should be taken advantage of, that is, the

THE FIELD GEOLOGIST

(10 By F. R. Ingalsbe.)

Some of us enter a profession because, perchance, it has been "thrust upon" us by friends and relatives, like greatness upon a king; some because environment and circumstances seem to leave little choice; and a few because they have a nature liking and aptitude for the work. All start out with high enthusiasm and plenty of ambition to build a career, but with a good deal of visionary and imaginary. Which of the three groups is likely to show the greatest degree of success? It almost goes without saying that he who has a natural aptitude for the work and a love for it is most likely to succeed.

The geologist belongs to one of the newer professions not yet completely weaned from its forbear, the mining engineer. He assumes a part of the duties formerly undertaken by the mining engineer just as have the mechanical and electrical engineers about the larger mines. It is another instance of specialization in knowledge and practice, and the geologist has won his right to the place and title because he has proved his worth. Like all new professions, it has had to contend with much prejudice arising out of ignorance, but fortunately it has come from the nonprofessional class with an excuse for not knowing.

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FIRST SEMESTER ENDS

The first semester of the School Year 1924-1925 ended Friday, January 30, and the second semester begins Monday, February 4. The last week has been a busy one, both for the students and faculty, due to various final examinations, most of which are quite comprehensive. It is hoped that the anxious faces seen about the halls will be transformed into smiles, happy ones again when the second semester begins.

HAYLEY GIVES COURSE

Mr. M. F. Haley, assistant in mill work, is conducting a noon-hour class in practical engineering every Monday, Tuesday, and Wednesday. About 30 students are availing themselves of the opportunity to study the practical points concerning various mechanical appliances. Boilers, pumps, air compressors, and electric motors have thus far been discussed, emphasis being laid on the actual handling of the different machines in practice. The students report interesting sessions.

(Continued on Page Two)
The Acropolis

Published monthly by the Associated Engineering Students, and should be this condition can only be relieved very much overcrowded, and that such schools should be more ethi-
ing and Metallurgical Engineers, of the American Institute of Min-
co-eds Andree McDonald

THE FIRST-YEAR COURSE

Conditions seem favorable for the existence, and it would be folly not to take advantage of them.

In a recent number of "Mining and Metallurgy", official journal of the American Institute of Mining and Metallurgical Engineers, Col. Percy L. Barbour, its editor, calls attention to the fact that the engineering profession is very difficult to convince them of the importance of advanced studies. He deplores the fact that too few of our engineering schools are working to this end, and that they are either blind to the facts or misled by their desire for large enrollments. Our own observation and the experiences of numerous School of Mines graduates seem to corroborate Mr. Barbour's statement.

Mr. Barbour's opinion that such schools should be more ethical in their solicitation of engineering students, and should be the first to decry, instead of fostering misleading statements concerning the demand for and the prospects of young men entering the profession. He deprecates the fact that too few of our engineering schools are working to this end, and that they are either blind to the facts or misled by their desire for large enrollments.

Our own observation and the experiences of numerous School of Mines graduates seem to corroborate Mr. Barbour's statement. They offer little encouragement to prospective students of Butte and Anaconda.

NEW COURSES AT SCHOOL OF MINES

(Continued from Page One)

The time is drawing near to see just what the Professors think of our work for the past semester. Maybe some of us who have harbored the idea that we would get through our subjects would just as soon keep on dreaming and not be presented with facts. Who started this business of giving semester grades and turned pleasant dreams into nightmares?

There have been many remarks to the effect that the sophomores had a cliche—only one three-hour quiz in examination week. Perhaps it's so, but then we don't need a three-hour quiz to show what we don't know; we are good at doing that in the nearly daily one-hour quizzes we take.

Speaking of rabbits, why is it some people like cake so well? Just ask Dave Moore; perhaps he'll tell you. It is reported we have an ice skater in the school that dared to race such men as Graham. He came close to winning, too; finished fourth in a four-man race. All of this leads us to believe that Wendel would do anything.

"Am I your brother's keeper?"—Paul Eno.

What we would like to know is what kind of a valve are they going to use to keep the water from running down the swimming pool—when we get one—through the tunnel into the main building? Will the class in practical engineering help to solve the problem?

FRESHMEN NOTES

We regret to announce that Charlie Waite of Hobson, Mont., has discon-
tinued his work.

J. Murray returned from his vacation at Lewistown—unmarried.

W. Metz visited his people at Grass Range, Mont. He claims to have had a good time, and so far no one has argued with him on that point.

J. Murray returned from his vacation at Lewistown—unmarried. 'Nuff sed.

T. Waite of Hobson, Mont., has discon-
tinued his work.

C. Poote went home for Christmas, and is now safely back. His "interest" is in Salt Lake City.

C. Calvert "took five" amid the snowy peaks at Lima, Mont. Calvert says that school is fine, including the vacations.

"Izzy" Winninghoff examined the winter crop at his place in Philipsburg. How izzit Izzy?

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CO-ED NOTES

At the new gymnasium of the School of Mines on February 11 the Co-Ed Club will give an informal dance! The bids are being sent during this week and the next. A six-piece orchestra will provide the music. The hall will be decorated and all arrangements are being completed.

One of the first to be given in the gym bids are being sent during this week the evening of February 11th?

There was a meeting of the Co-Ed Club at the home of Catherine Leary, with Andree McDonald joint hostess. Plans for the dance to be held on February 11 were made. After a business meeting delicious refreshments were served.

A meeting of the Co-Ed Club was to be held at the home of Mrs. Ruth Blackburn, but due to illness, she was unable to hold it.

This meeting was held at the home of the chairman, Miss Dorothy Cohen, on January 21. The business meeting was lively because of the work for the dance to be held at the new gym on February 11. After the business meeting the hostess served delicious refreshments.

The next meeting is to be held by Miss Dolores Chisholm and Miss Catherine Arthur. This is to be February 5.

THE FIELD GEOLOGIST

(Continued from Page One)

libraries should be freely used as a first aid.

The work of the geologist may take him into the farthest corners of the earth or it may confine him to a small territory, or even underground. His duties are correspondingly varied, but his responsibility is always the same.

Let us examine for a moment the qualities essential for a moderate degree of success. It is certain that nothing but a love of the work will keep a man constantly at his job through routine daily life in a laboratory or mine, and through the perils and hardships of pioneering work in tropical jungles and the cold of polar regions. To fulfill his mission he must bring back data of the most accurate kind which is willing to compromise with what appears to be the opportunity thing to do. His responsibility in this direction is very great, indeed, but his ability to reach a logical conclusion from the data gathered is just as great. His recommendations may mean the making or breaking of individuals or companies who have placed confidence in him.

The educational requirements are of no mean sort. If the geologist must unravel the intricate network of earth-structure and history he must have a broad fundamental knowledge of nature's laws as expressed in physics, chemistry, and biology, as well as a thorough training in their application to geology itself. This usually requires four or five years of collegiate training.

One of the greatest criticisms of our engineering schools is found in the fact that most of them use the "cramping" method of training, leaving the simple matter of getting an education to the student himself. Likewise, the lack of any co-ordinated effort on the part of our faculties to find out whether the student is adapted to the profession he proposes to enter, is another serious defect. A student who does not show a strong tendency to assimilate cut and dried facts and become more or less of a "walking encyclopedia", is automatically eliminated on the assumption that the ability to perform such a feat is the outward evidence of essential qualities for success in engineering. Certainly so far as the work of the geologist is concerned, it is far from the truth.

Those young men who are now preparing themselves for geological work will, in a few years, find themselves following one of two main lines of the profession. Those in whom the adventurous spirit and pioneering instinct are strong are almost sure to find employment in foreign fields leading parties into little known wildernesses and bringing back information of a somewhat generalized nature, preparing the way for detailed work later. Although general in nature, his work must be accurate nevertheless. The other class, those with stay-at-home tendencies, will find places on staffs of local concerns where their duties will be more or less localized and specialized. Both types must be equally good geologists.

BASKETBALL

(Continued from Page One)

Miners 23, Bozeman 39. On January 16 the Bobcats took a game from the Mines in the first half of which the Miners showed up well. Fast work by Cottam and Hartwig of the Bobcat team brought their score to the lead at the end of the first half. A rally in the second half netted the Miners an additional 7 points, but the Bobcats had the advantage.

PROFESSOR KOENIG

(Continued from Page One)

sistant to moisture and the weather, the speaker said. Fibrous materials when so treated become immune to the action of acids and alkalies and their resiliency is greatly increased.

A new method of reclaiming crank-case oil through mixing it with water glass, which agglomerates the impure materials in the oil, and then centering and distilling with steam, was also explained by Professor Koenig. In this way 70 per cent. of the oil is recovered, he stated.

The development of an auto knock compound composed of tetraethyl lead was also described. The lead mixture renders the gasoline capable of greater compression without increasing inflammability, and thus results in a saving of 25 per cent. of the amount of fuel used.

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The expansion of the Montana State School of Mines physical plant in recent years, together with curricular extension, has been accompanied by local requests for facilities to make available the first and second years of regular college work for residents of Butte. For years there has been agitation for the establishment of a course at the School of Mines that will ultimately lead to the degree of bachelor of arts.

These arguments are now being presented by the county's legislative representatives. A measure has been introduced in the assembly. Chancellor Brannon is known to be desirous of making the School of Mines the highest technical and research institution to be found anywhere and has for some time, it is understood, been attempting to perfect plans with the president of the School of Mines and leading technical, professional, and business men to that end. Every one who lives in this state hopes that he will be successful.

The Montana State School of Mines is one of the leading technical mining schools in the country. Several years ago a request was made in a number of publications to name the leading mining schools of the country. Several years ago a request was made in a number of publications to name the leading mining schools of the country. Several years ago a request was made in a number of publications to name the leading mining schools of the country. Several years ago a request was made in a number of publications to name the leading mining schools of the country. Several years ago a request was made in a number of publications to name the leading mining schools of the country.

**THE ACROPOLITAN**

**ALUMNI DEPARTMENT**

Montana State School of Mines

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Tao Ling—Fu-Chung Mining College, Chiao Tao, Honan, China.
Theodore Pilger—Budengesterstrasse 21, Berlin, Germany.
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**PROMOTIONS AND APPOINTMENTS**

John Norton, '27, formerly safety engineer at the Mountain View mine, has been promoted to the rock drill equipment department.

Joseph Judge, '24, who has been shift boss at the Mountain View mine, was appointed safety engineer at the Anaconda mine.

Frank D. Canno, '17, formerly safety engineer at the Anaconda mine, has been promoted to assistant foreman at the Belmont mine.

Alex McDonald, '22, who has been in the model shop, was appointed to the rock drill equipment department.

**PANNINGS**

Arnold Borel, '23, has returned from Leavenworth, Washington, and is now sampling at the Stewart mine, Butte.

Ingles Gay, '23, is with the Chickagoo Development Co., Chickagoo, Alaska.

C. W. Vaupell, '20, has been promoted from Angangueo, Mexico, and now has charge of the southwestern district of Mexico for the A. S. & R. Co., with headquarters at Mexico City.

William J. Hill, '16, who was in the hands of the rebels at last reports, has succeeded Vaupell at Angangueo, Mexico, as chief engineer for the A. S. & R. Co.

Cards have been received from Ray C. Stanaway, '22, who has recently taken up his residence in New York, announcing the birth of Betty Carol Stanaway on January third.

Arthur de Celles, '24, is at Jerome, Arizona, and has forwarded for the mineralogical museum of the Montana State School of Mines, Butte, Montana, some excellent specimens of the rare mineral Voltinite.

**ALUMNI, NOTICE!**

We are sure that you appreciate the "Acropolitan" as a means of keeping in touch with affairs at the School of Mines. It is published for your benefit as much as for the students. It will be a big help to us in publishing the paper if we get all the subscriptions paid early, hence we ask that you send to H. H. Nightingale, Business Manager, $1.25 for the year 1924-25 as soon as convenient.

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