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Associated Students of the Montana School of Mines

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**Don Mahagin Presents Seminar**

On Wednesday, March 8, Mr. Mahagin, a senior metallurgy student, presented a seminar entitled "Direct Evidence of Dislocations." Mr. Mahagin presented a brief description of dislocations and the methods used in studying them.

*"The study of dislocations in crystalline solids has been aided considerably in recent years by the development of certain techniques which permit microscopic observations of defects. These techniques have not only proven the existence of dislocations, but also have made possible studies of the dislocation density of many crystals, the movement and interaction of dislocations, and the nature of dislocation networks in crystals."*

Mr. Mahagin then proceeded to describe four methods which have been employed in the study of dislocations.

*"The first method mentioned by Mr. Mahagin was etching. This method is based upon the fact that dislocations are regions of disorder within a crystal. The process of etching is subdivided into two separate categories - chemical and thermal."*

Decoration was the second method mentioned and is based essentially on the precipitation on a dislocation line. After precipitation has occurred, this section of the material is placed in a liquid which has the same index.

*"The third method mentioned is the use of liquid which has the same index of refraction as the specimen. When the specimen is placed in this liquid, the dislocations are accentuated, and the process of etching can be used to study them."*

Don Mahagin,

**Lead Processing Seminar by Don McMillan**

On Wednesday, February 22, Don McMillan, senior metallurgy student, presented a seminar on blast roasting of lead. His talk was based on experience gained while working at the East Helena Smelter last summer.

"Lead sulphides, at the temperatures ordinarily reached in practice, are not reduced by carbon or calcium monoxide. Also, the presence of too much sulfur in the ore charge would result in an unsatisfactory proportion of the lead into the matte and render the subsequent recovery of the metal difficult." The solution of such a problem has been solved by oxidizing the lead sulphide to lead oxide, a process known as roasting. Also, lead ores, because of their physical characteristics, require that the roast be in the form of a hard, strong and yet porous cinder when charged to the blast furnace. Such a process for making this cinder is known as sintering.

The combination of the two above processes is termed blast roasting and is used extensively in the preparation of lead ores for processing.

**MSM Sponsors Lectures On Pre-Stressed Concrete**

John J. Walsh, designer in the Bridge Department of the Montana State Highway Commission in Helena, and Floyd Swenson, structural engineer for the Portland Cement Association, Helena, were the featured speakers at a meeting on pre-stressed concrete held at the School of Mines, March 2 at 8 p.m. Mr. Walsh received a Bachelor of Science Degree in Mathematics from the College at Great Falls and was graduated in civil engineering from Montana State College. He has taught in Montana high schools and is a veteran of World War II.

Mr. Swenson received both his bachelor and master's degrees in engineering at Montana State.

**MSU Masquers To Present Chinese Drama**

The annual AIME convention was held in St. Louis, Missouri, from February 27 to March 3. Delegates from major companies, representing most of the states and many foreign nations met to discuss new trends, methods and improvements. Delegates presented special papers on their respective fields. Reporters covered topics ranging from rising production costs to the future of the metal industries.

Thurston Norton, Chairman of the Republican National Committee, was the featured speaker. The Chase and Fair Plaza Hotels were the scenes of much social activity. The Ladiess' Auxiliary entertained with luncheons and tours of the city. Several of the organizations sponsored open houses in the evening. The highlight of the social activity was undoubtedly the banquet served on the evening of March 1 in the Chase Hotel.

Professors Vine and Harshbarger represented Montana School of Mines at the meeting.

The Chase was also available for an engineer student to attend this meeting with the expenses paid as a representative of a company, for many mining and technological schools send students in this capacity. It is necessary only for a student to send an annotated information on this matter.

The annual convention was held in New York. Next year it will be held somewhere on the West Coast.
**Who’s Who on Campus**

**Whose Who on Campus**

**Bill Pickard**

Who's Who on Campus spotlights Bill Pickard as the campus personality of the week for the spring semester. A senior at Montana, Bill is a junior in petroleum engineering. He plans to graduate in May and would like to secure a job in the Northwest, preferably in Montana. Bill has received advanced scholarships and also received the Cobb Foundation scholarship for his Sophomore year.

Last summer Bill worked for Pan-American Petroleum in Kem- ball, Nebraska. As a hobby he collects paintings by Charlie Russell; "not originals," he added. He also enjoys fishing and hunting.

**Susan Hayes**

The Coed Personality of the week is Susan Hayes. Originally from Great Falls, Susan worked as a Medical Secretary for the Montana School of Mines Student Health Service.

Bill received a Bachelor of Science degree in Chemical Engineering, and plans to work for the Montana School of Mines as a research assistant.

**Students Advised To Submit SSCQT Applications Now**

Applications for the April 27, 1961 administration of the College Scholarship Qualification Test are now available. The test is given at local boards and offices within the county. Eligible students interested in taking the test should apply at the local or state boards, which prepare and administer the test.

The startig salaries are usually $3,000 to $4,000 per year. Students are also encouraged to work during their vacations to earn additional income.

**Federal Employment Open to Engineers**

On March 9, Mr. James Melan- klo, the regional personnel officer for the United States Civil Service Commission, talked to the students of the Montana School of Mines. Mr. Melanklo told the students about the “Jobs Opportunities in Federal Service” and the importance of federal service.

The government has seventy department and agencies whose work is of national, state, and local significance. There are also excellent sick leave benefits and retirement plans.

A person applying for a civil service job must be a citizen of the United States and meet certain educational requirements. There are also excellent sick leave benefits and retirement plans.

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Bowlers Needed For Bozeman Tournament

The Montana School of Mines will again participate in the fourth annual Montana College Bowling Championships which will be held at the Montana State College Student Union Building April 15.

In the interest of providing the best possible opportunity to represent the Mines, bowlers will be chosen on the basis of a minimum average of 150 games.

The setting is that of a recreation of a Chinese theater. No realistic scenery is used, as elaborate Chinese furnishing are used to represent mountains and bridges. The lavish handiwork of the stage is handled throughout the performance by men who are part of the cast, in the tradition of the Chinese theater. As a Chinese actor would say, the eyes are doubled.

The setting displays elaborate Oriental decor, as stage center holds a series of steps, leading to a circular opening representing heaven. May be bowed either Saturday or Sunday, depending on the necessity of the team's staymg meeting.

It is possible that all games may be bowed either Saturday or Sunday, unless it is necessary for the team's staymg.

PRE-STRESSED CONCRETE—

(Continued from Page 1)

Civil engineering from Montana State College. Later, he was instructor in the Department of Civil Engineering.

Illustrated talks on the uses of pre-stressed concrete were given. Richard Pugh, associate professor of mechanics and in charge of arrangements, said that about ninety persons attended.

Ployd Swenson commented briefly on the history of pre-stressed structures. A movie demonstrating the basic physical properties was shown. John J. Walsh gave an illustrated talk showing design principles and formulas. He also showed typical details of the beams used in highway bridges and overs- seas construction.

Lemelin Leads Mines Scorers

Baseball Schedule for 1961

April 22—Mines vs. Western (doubleheader) at Butte.

April 29—Mines vs. Western at Dillon, Mines vs. Carroll at Dillon.

May 6—Mines vs. Carroll at Butte.


This schedule does not include those games that are to be arranged with the University and the State College.

Track Schedule for 1961

May 4—MSC Invitational (tentative).

May 13—NAIA meet at Dillon.

May 19 or 20—Conference Spring Carnival at Butte (Track, Tennis, and Golf).

Football Schedule 1961

Oct. 7—Western Here 28—Northern There 14

Rocky Here 21—Carroll Here

Nov. 4—Eastern There

Basketball Schedule 1962

Jan. 6—Western Here Feb. 5—Rocky Here

Carroll Here 9—Carroll There

Rocky There 15—Northern There

Northern There 20—Western There

Eastern There 25—Northern Here

Know Butte...

BUILDS FIRST SILVER MILL

John How, loyal Unionist in the Civil War and one of St. Louis' leading merchants of his day, built the first silver mill in 1870 in the Butte district, according to some historians.

The mill was erected in Brown's Gulch, where it was found to be unprofitable to operate, and then moved to a site just west of Butte in 1875. It was situated on the side of the road that led to Rocker along Silver Bow creek. It sometimes was known as the Centennial Mill.

The How Mill when compared with the Lexington, the Alice and Mouton mills of a later day was but a small primitive affair, but it did part to develop the great mining camp.
Isaacs Presents Lectures On Rock Pressure

Mr. E. de St. Q. Isaacs, experienced in control of deep level mining and an expert in the construction of rock pressure courses at the campus of Montana School of Mines in the Physics Building on March 16, 1961.

Born June 4, 1945, in London, England, Mr. Isaacs gained his educational background at the University of India, where the most difficult mining and engineering problems are of interest. Mr. Isaacs has been employed by the Atlas month. He worked in various mining fields preserving closed to big game hunting in Berkeley, California. After he selected a rehabilitation in 1957, he worked for Copco Aktiebolag of Stockholm, Winterkill, sometimes called a special type of aerator late this year.

The first lecture, presented at 7:30 p.m., was devoted exclusively to the Dwight-Lloyd machine. Some of the former positions Winterkill, sometimes called a special type of aerator late this year.

The lecture was part of a series sponsored by the Burlington, United States and those in Butte with the Montana School of Mines. It was carried out in the Lecture Hall at the Montana School of Mines, Rolla, Missouri; Whitney, department fish manager

The possibility that Brown's Dynamo was recognized when this body of water was exposed to the public in 1961. At this time, however, no economical means of preventing fish were available. The management plan for the lake included the following:

1. Large, year long type of portable aeration system was successfully tested on the Colorado School of Mines, Rolla, Missouri; the University of California, Berkeley, California. After he left Harvard, Mr. Isaacs continues his lecture tour After the lecture, Mr. Isaacs discussed "Physical Aspects of Marriage." He mentioned that the film contained 50,000 words in the titles follow.

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