



27 Aug 1915

The Missouri Miner, August 27, 1915

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THE MISSOURI MINER.

Missouri School of Mines and Metallurgy, Rolla, Mo.

Vol. 1, No. 20.

Friday, August 27, 1915.

Price 5 Cents.

Opening of School.

Entrance Examination, Saturday, September 4th. Registration, Monday, September 6th. School Begins, Tuesday, September 7th.

Topography.

The work in topography will begin Monday, August 30, and continue until Saturday, September 4, 1915. The work will be done from Rolla as a base. This course is required of all students who take B. S. in Mine Engineering.

Kansas City Boosters.

The Kansas City M. S. M. Alumni Association has joined the Booster Club, and expects to have a dinner and smoker, and to invite all the prospective School of Mines students in Kansas City. We hope every man in Kansas City and vicinity will come to this smoker, and boost for M. S. M. All are invited.

Catalogue.

The new catalogue, after unavoidable delays, was issued last week. Copies were sent to each of the students; in the case where the summer address was known, the bulletin was sent there. In other cases it was to the homes of the students. If you did not get your copy, drop a line to the office, and one will be sent you by return mail.

Miss Harris to be Married.

Miss Jean Harris, the beautiful and accomplished daughter of Professor Elmo G. Harris, will be married at her home in Rolla August 26, 1915, to George Willson, of St. Louis. Mr. Willson is a graduate of the State University, and has law offices in the Title Guaranty Building in St. Louis.

The Miner congratulates Mr. Willson, and extends best wishes.

If your name is in the list on page 6 be sure and send in the information requested at once.

M. S. M. Alumni Association.

A number of the Alumni have been talking with the Director about organizing a general Missouri School of Mines Alumni Association, to represent the entire alumni. Similar organizations are in existence at both the Colorado School of Mines and the Michigan College of Mines, and there is no reason why M. S. M. should not have an association of this kind. The benefits of a strong alumni association are without number; one of the best features being that it helps the fellow without a job to secure one, or perhaps to better himself. At the same time, it assists in building up a bigger and better M. S. M., for which we are all striving.

It has therefore been suggested that The Missouri Miner be the medium through which this association can be formed. The resident alumni forms too small a portion of the total to organize and conduct such a general association. A blank nomination ballot has been printed in this issue of The Miner, on which each alumnus is requested to nominate a man for one or more, or all of the officers. When the ballots have all been received, they will be counted by a committee and the names of the two highest candidates for each of the offices will be printed in one of the September numbers of The Miner. When the second ballots have all been received, they will be counted by the committee, and the names of the officers published. These men will hold office for the ensuing year.

There are a number of good, active men who are both able and willing to help guide this M. S. M. Alumni Association success-

fully, and it is believed that this is the best time to form such a body. It is hoped that every alumnus will send in his ballot to the Director's office.

The committee appointed by the Director to canvass the ballots and to publish the returns of the election are: V. H. Gottschall, '98, F. B. Powell, '06, and D. H. Radcliffe, '13, all residents of Rolla.

Let's come through now, fellows, show some of the "old time pep", and make this thing a "goer". We need it!

Student Assistants Appointed.

Assaying: R. S. Burg.

Chemistry: R. S. Dean, E. G. Deutmann, F. Grotts and G. E. Johnson.

Descriptive Geometry: J. J. Shipley and C. E. Bardsley.

Drawing: L. J. Zoller.

English: T. P. F. Walsh.

Gymnasium: W. H. Kamp and G. B. Harrington.

Metallurgy: C. E. Peterson.

Mineralogy: J. A. Worley.

Physics: B. W. Adams and E. J. McNely.

Shop: J. H. Bock and H. G. Corby.

Surveying: B. L. Ashdown, E. C. Burkhart and T. C. Gerber.

NOMINATING BALLOT

M. S. M. ALUMNI ASSOCIATION.

For President

For Vice-Pres.

For Secy-Treas.

Advisory Committee (4)

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Alumni News.

A. S. Bilderbach, ex-'12, is with the Park Board at Kansas City.

D. M. Kline, '12, is located at Thane, Alaska, since May 1st, 1915.

E. R. Needles, '14, visited friends in Rolla the latter part of July.

R. W. Johnson, '12, will take a post-graduate course at M. S. M. this year.

H. E. Whiteley, ex-13, is assayer, U. S. Customs, Kansas City, Mo.

W. C. Hogoboom, '14, is with the Southeast Missouri Lead Co., at Potosi, Mo.

A. F. Karte, '11, of DeSoto, Mo., stopped over in Rolla for a few days recently.

P. F. Michael, '09, with Brenneke and Fay, St. Louis, was in Rolla the first part of August.

Earl Insley, ex-'10, is in the mechanical department of the Kansas City plant of Swift & Co.

K. G. "Heine" Schwegler, ex-'15; is in the Abengarez Gold Fields, of Abengarez, Costa Rica.

Lister M. Cummings, '15, is assistant engineer for the Doe Run Lead Co., at Rivermines, Mo.

Howard D. Gray, ex-'09, is assayer for the Platinum Mining and Milling Co., at Holmes, Wyoming.

D. D. Finley, Ex-'15, is county surveyor and engineer, Wellington, Kansas, and a 300 Club booster.

M. H. Detweiler, '11, is located at Sunnyside, Utah. He is assistant engineer for the Utah Fuel Co.

S. R. Hatch, '15, is in the engineering department of the Cananea Consolidated Copper Co., Cananea, Mexico.

A. F. Truex, '14, is making a geological survey of Vernon county for the Missouri Bureau of Geology and Mines.

O. D. Neal, '14, is with the Granby M. & S. Co. at Neodesha,

Kansas. Martin Bowles, of the class of 1917, is with him.

F. G. Faulkner, ex-'87, division superintendent of the Frisco System at Birmingham, Ala., visited M. S. M. last week.

W. R. Knappenberger, '13, is utility man in the concentrating mill and flotation plant of the American Zinc Co., Mascot, Tenn.

Dexter Followill, ex-'12, with the St. Louis Smelting and Refining Company, Collinsville, Ill., visited friends in Rolla in August.

W. E. Sheldon, '05, of the Southwestern Telephone and Telegraph Co., of St. Louis, visited Mrs. T. D. Smith, of Rolla, a short time ago.

Edward D. Lynton, '12, is Engineer for the Democrata Mining Co., Cananea, Sonora, Mexico.

"Mike" Collins, Ex-'15 is with the same company.

We are pleased to report that R. W. Griffin, of the class just graduated, has secured a position with the Otis Steel Co., a large firm of Cleveland, Ohio.

C. B. Spencer, '93, is chief field engineer, and H. O. Garst, '09, is junior civil engineer for the Interstate Commerce Commission. Both are located at Kansas City.

R. N. Copeland, '12, who was in Rolla this spring and summer, doing special work on South American ores, has gone to work for the Vinegar Hill Zinc Co., Galena, Ill.

H. D. McKibben, ex-'12, is smelter chemist at Chanute, Kas. A short time ago Mrs. McKibben, with her two children, visited her parents, Landon C. Smith and wife, of Rolla.

C. W. "Bill" Hall, of the class of 1913, who is employed by the Yoquivo Development Co., was recently made Superintendent in charge of their mine at Minaca, Chihuahau, Mexico.

Arch W. Naylor, '12, better known as "Dad," is contracting engineer for the Northern Construction Co., with offices in Elk-

hart, Indiana. He visited Rolla the latter part of July.

V. H. McNutt, '10, is in Billings, Mont., and V. H. Hughes, '09, is in Fort Stockton, Texas. Both are of the firm of Valerius, McNutt & Hughes, Oil Geologists, of Tulsa, Oklshoma.

Another M. S. M. man to become a benedict was Paul R. Cook, '07, who married Miss Esther Stassen, of Rolla, on June 24, 1915. Cook and wife have gone to Ecuador, South America.

John L. Pickles, '02, Chief Engineer of the Duluth. Winnipeg and Pacific Ry., Duluth, Minn., visited M. S. M. in August. If any M. S. M. man wanders up that way, be sure and look up Pickles.

H. W. L. Porth, secretary of the Kansas City M. S. M. Alumni Association, was recently married to Miss Evalina Keller. Mr. Porth is assistant master mechanic of Swift & Co.'s plant at Kansas City.

Walter Gammeter, '15, begins work as Assistant Manager of the Lucky Bill Mine at Bayard, New Mexico. This position was given him by Paul Larsh, ex-'95, who owns the mine. This is the spirit we like to see.

Ralph D. Killian, '10, is city engineer of Perryville, Mo., and has charge of levee districts Nos. 1 and 2 of Perry County. We are glad to say that a levee he built recently at a cost of \$21,000 saved a \$125,000 crop this year.

A. L. "Jinx" Kaplan, '15, is assayer for the Platinum Mining and Milling Co., of Holmes, Wyo. H. D. Gray, ex-'09, secured the position for him. Another example of M. S. M. spirit lending a helping hand at the right time.

Edwin L. Clarke, who was Instructor in Surveying 1906-8, and who was instrumental in organizing the M. S. M. Chapter of Tau Beta Pi, is engineer of the Carey Act Department of the State Land Commissioner's office at Cheyenne, Wyoming.

Another M. S. M. man at Chey-

enne, Wyoming, is Albert B. Bartlett, '07. He holds the position of Deputy State Engineer. Mr. Bartlett served as chairman of the Land Act Committee in the Irrigation Conference called by Secretary Franklin K. Lane in 1914.

R. F. Rucker, '06, who was recently made assistant general manager of the Aluminum Ore Co., East St. Louis, Ill., visited his brother, B. H. Rucker and family, of Rolla, in July. R. F. and wife are rejoicing over the arrival of a son, born to them August 16, 1915.

Clinton D. Smith, '15, and Miss Cecile Miller were married at the home of the bride's parents in St. Louis on July 24th. They will reside in Northfield, Minnesota. He and H. C. White have organized the Minnesota Engineering Co., with offices at Northfield and Austin, Minn.

Arthur Neustaedter, '84, is general manager of the Arminius Chemical Co., of Mineral, Va. The mine in his charge is probably the largest pyrite producer in the United States. His son, H. A. Neustaedter, of the present senior class, is working for him this summer. E. O. Stoliker, '14, is with the same company.

Joseph S. Irwin, Instructor in Geology and Mineralogy at Lehigh University, visited Rolla the latter part of June. He had just returned from R. H. Maveety's wedding, at which he performed the function of best man. Maveety is structural engineer for the Guerber Engineering Co., Bethlehem, Pa., and on June 16 was married to Miss Estelle Hungerford, of Battle Creek, Michigan.

The Baltimore is now run on the European plan, and will make a concession to students of 35c per day for room until they can get permanently located.

If you know of any recent changes of the alumni send in the information at once for the new Register of the graduates.

D. W. Buckby, '01, Writes Interestingly.

The following extract from a letter to Dr. McRae from D. W. Buckby, '01, Superintendent Stewart Mining Company, Wallace, Idaho, will be read with interest by many old students:

"I see some of the old students on every trip I take, and all seem to be doing nicely, although many have left the purely mining game. On a trip through the southwest last spring I ran into Mark Hannah and Ben Norton in El Paso, the former in a carriage manufacturing business, and the latter as a partner in a large book store. Both doing fine, and looking as of 15 years ago. They had recently seen Dr. Ladd, Stauber and Koeberlin. In Douglas, Arizona, I had very pleasant visits with Lester Budrow, who is one of the big men of Mexican mining; Owen Ambler, Assistant Superintendent of Calumet and Arizona Smelter; Sir Hilton Colley, in like position for the Copper Queen; Marsten, his foreman, and Stuart (who married Olive Kauffman.) Keno Greenidge is also located in Douglas, but was away at the time of my visit. Also talked over the phone with Rowe McCrae at Hayden.

It was in this same way that I kept running into the boys all through Nevada and Utah, and saw a few in California. * *

We are operating several properties—I am running three mills, and designing the fourth, a 2400-ton affair, to be erected on the northern end of Vancouver Island, B. C.

Stanley Moore (Soph Moore, the guard) is here in Wallace, and is Superintendent of the Success Mining Co. Ruhle, our old end, is quite well fixed in the printing and book binding business in Spokane and Butte. McMahon is an engineer for the Anaconda Co.; Ralph Marsten is chemist for the Butte & Superior Co., at Butte. This concern has many of the younger graduates whom I do not know, and the same is true of Jackling's Utah properties."

Spelter Production for First Six Months of 1915.

The production of spelter for the first six months of the year has been canvassed by C. E. Siebenthal, of the United States Geological Survey, with the following results, expressed in short tons.

The output of spelter was 207,634 tons made from domestic ores, and 8,898 tons from foreign ores, a total of 216,532 tons, compared with 177,991 tons for the preceding six months, and with 175,058 tons for the corresponding six months of 1914. In addition there was produced by distillation from drosses and skimmings 13,546 tons of secondary spelter, compared with 10,273 tons, one-half of the 1914 output of distilled secondary spelter. No statistics were obtained of the spelter produced by remelting skimmings, drosses, etc., but it was probably not less than 12,000 tons. The total output of spelter from both ore and skimmings was therefore about 242,000 tons, or at the rate of 484,000 tons per year. The whole number of retorts in operation in June was about 127,000, but many of these retorts had been only recently put into operation. Additional retorts to the number of over 32,000 have been since completed, are under construction, or are planned.

One apparent domestic consumption for the six months was 160,906 tons, against 149,762 tons in the preceding six months, and 149,306 tons in the first six months of 1914. The spelter stocks on hand at smelters were 5,884 tons, an average of about 150 tons each for the plants reporting.

Mr. and Mrs. William J. Rucker, of St. James, Mo., and Mr. and Mrs. J. de N. McComb, of Chicago, visited the School of Mines last week. Mr. McComb is office engineer of the Santa Fe Railway System, and was deeply impressed with the work M. S. M. is doing.

Have You Qualified Yet For The 300 Booster Club.

THE MISSOURI MINER

A weekly paper published in the interest of the Alumni, Students and Faculty of the Missouri School of Mines and Metallurgy, Rolla, Mo.

Entered as second class matter April 2, 1915, at the post office at Rolla, Missouri, under the Act of March 3, 1879.

STAFF.

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B. L. Ashdown, Assistant Editor
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E. G. Deutman, - G. E. Kublin
G. E. Ebmeyer, M. L. Terry

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Publications of The School of Mines.

The Mining Experiment Station has in press a bulletin on drill bits by Prof. C. R. Forbes and L. M. Cummings, '15. Copies will be sent on request. This is the result of a number of experiments carried on by Professor Forbes during the past year, to determine the efficiency and durability of bits of different shapes, as the cross-bit, bull-bit, etc., and some very interesting data are presented.

Professor Harris and B. L. Ashdown, have conducted a long series of experiments on the new fan recently installed in the Power Plant. In a short time Professor Harris expects to get out a bulletin, giving the results of these tests.

The Pythian Advocate, the monthly magazine of the Knights of Pythias, published at Minneapolis, Minn., has a write-up of the Triangle Club at M. S. M. as its leading article for July, 1915. It also speaks in high praise of the 1915 Rollamo.

Be sure to send in your nominees at once.

Editorials.

A delightful little booklet, "The M. C. M. Alumnus," has been received by The Miner, for which we wish to express our thanks through these columns to the Michigan College of Mines Alumni. It has 140 pages, an attractive cover, and is well written. It contains a number of very good papers by M. C. M. Alumni, reports of the thirteen alumni clubs located in the larger cities and the principal mining districts, a write-up of the annual meeting, and of the reunion at the San Francisco Exposition, reports of the committees, and a parody on the song, "I want to go back to Michigan," that is splendid. We certainly envy our brothers at Michigan, and hope some day to have an Alumni Association which rivals theirs, but we have a long way to go.

Why not follow the good example set by the Kansas City Alumni Club, and form an Alumni Club at some of the larger mining camps, such as Bingham, Morenci, Flat River, Joplin, and other places too numerous to mention? In each of these, as well as the cities, there are from twenty to fifty "Miners," who, we are sure, would be willing to get together. All we need is a starter. So the first time one of you "Old Grads" meets another, pass the good word along, and try to get an Alumni Club started in your camp, or town, as the case may be. Michigan has thirteen such clubs.

With the opening week of school comes the first number of Volume II of The Miner. We are going to try to get The Miner out each week of the school year, the size of this issue, with from six to eight pages. To do this it will be necessary for every student, as well as every alumnus, to send in bits of news from time to time, and to send in his subscription, to keep us going. We have made the price for a full year's subscription one dollar,

and we think it will be worth that to each M. S. M. man.

There are a number of exchanges on The Miner's list, which keeps us posted with the news of other colleges. But the things of vital interest to every one of us, student and alumnus alike, is to know what M. S. M. men are doing in the mining and engineering world. So send in a few words to the school from time to time, tell us what you are doing, and if you meet an M. S. M. man, tell us about him and what he is doing. That's the stuff we like to hear.

Send in your dollar to the Business Manager or the Editor of The Miner. Every subscription makes a bigger and better paper.

Fishing Party.

Messrs. Jesse Cunningham, H. A. Ambler, Professors Gottschalk and McCandliss, and Doctors McRae and Illinski spent a week "fishing" during August on the Big Piney and Gasconade Rivers. It rained every day, and the party reported that "the floating was excellent, but the water was so muddy the fish couldn't find the bait."

Births.

Mr. and Mrs. A. N. Detweiler announced the birth of their daughter, Eula May, July 3, 1915, at Springfield, Ill.

Mr. and Mrs. S. C. Macomber announced the birth of their daughter, Mattie Locke, July 11, 1915, at Tipton, Calif.

Mr. and Mrs. W. A. Baueris announced the birth of their son, William Frederick, July 18, 1915, at Seattle, Wash.

Chautauqua Speaker.

Ex-Gov. Henry A. Buchtel, Chancellor of the University of Denver, Denver, Colo., was a Chautauqua speaker in Rolla last week, and visited the School of Mines.

If you can give any information about the men named on page 6 please send it in at your earliest convenience.

News of the Students.

C. C. Moore, '18, is in Kansas City.

E. J. McNely, '16, was in Rolla for a few days the latter part of July.

Joe Barton, '17, is making an automobile tour of Illinois with his father.

D. H. Morgan, '16, is in the engineering department of the United Railways Co., St. Louis.

John Schuman is back from Columbia, and reports having had a pleasant time with the summer co-eds.

Lucien Erskine, '17, Editor-in-Chief of the Rollamo for 1916, has purchased an eight-cylinder Cadillac.

Greene Erskine, '16, after having toured the Pacific Coast, is resting quietly in St. Louis, "fussing" the girls each evening.

George Hippard, sales agent of the Vulcan Coal and Milling Co., St. Louis, Mo., was in Rolla recently, and is greatly pleased with M. S. M. His son, C. W. Hippard, is a member of the class of 1917.

We were informed, in the early part of the summer, that Geo. Barrere, '18, was selling flour in carload lots in Chicago. Doubtless by the time school opens he will have sold several train loads to the unsuspecting merchants of the Windy City.

Ed Woolrych, ex-'16, is in the commission business at Union, Mo., as well as representing a theatrical agency, a soap powder company, and working up a program for the Metropolitan Grand Opera in St. Louis at the same time. Ed had a few other things in line that he did not mention.

The summer colony at Rolla has dwindled down to Ambler, Kamp, Schiermeyer, Gold and Doyle. Of course, Bob Heller helps while away the time with the local gossip. Schiermeyer is working in the library, and Gold is helping manage the Baltimore. Kamp and Ambler divide their time between Rolla and the Gasconade, and "fuss" most of the time they are here.

Practical Experience Seekers.

J. Chas. Miller, '16, and John S. Brown, '17, are working in Commerce, Oklahoma.

Joe Wilson, '17, is at Idaho Springs, Colo. It is reported that Jody is managing a swimming pool, and teaching the "fair ones" to swim.

Bill McCartney, '16, R. E. Velasco, '17, J. J. Dowd, '16, and H. C. Corby, '18, are gaining practical experience in mining at Joplin.

Fred Grotts, '16, spent the summer at the University of Illinois, studying inorganic chemistry.

It is reported that K. V. B. Rossman, '17, is vice-president and general manager of a new zinc company at Caney, Kansas, and will not be back next year. Evidently "Abe" is making too much money to think of school just now.

C. W. Hippard and H. A. Kluge, both of the class of 1917, are in Victor, Colo.

J. A. Worley, '16, spent the summer at his home, San Antonio, Texas.

J. J. Doyle, '16, is working at the Geological Survey.

G. E. Johnson, '16, is chemist at one of the large smelters at Great Falls, Montana.

Chas. Gold, '16, is assistant manager of the new Baltimore Hotel.

C. E. Bardsley, '18, is in the Wabash engineering department at Antwerp, Ohio.

Earl Deutman, '16, is with the Union Electric Light & Power Co., St. Louis.

If you know of any recent changes of the alumni send in the information at once for the new Register of the graduates.

Hippard, Head, Rutherford, Ashdown and Schuiermeyer compose the advance volunteer committee from the Y. M. C. A. to meet trains and assist new students in getting located.

Be sure to send in your nominees at once.

Gold Deposits of Eagle River Region, Southeastern Alaska.

The first gold mining in Alaska was in the Juneau gold belt, where operations were begun about 35 years ago. More than \$60,000,000 worth of gold has been taken from the mines near Juneau, which is the largest gold-mining camp in Alaska.

The auriferous belt is, however, known to stretch for some 50 miles to the north, and includes the Eagle River region, described in a report by Adolph Knopf, which has been issued by the United States Geological Survey as Bulletin 502. This report, unlike many others on mining districts in Alaska, which are of a reconnaissance character, treats of the region in detail. It is entitled "Geology and Mineral Resources of the Eagle River Region, Alaska," and is accompanied by a topographic map on a scale of a mile to the inch, with 100-foot contours, by J. W. Bagley, and a detailed geologic map on the same scale.

Gold-bearing lodes constitute the mineral resource of the Eagle River region under development. The ore bodies occur in certain geologic associations which are described in the report and shown on the map. A copy may be obtained on application to the Director of the Geological Survey, Washington, D. C.

We're Doing Our Best, Are You?

If you have some campus news, send it in,
Or a joke that will amuse, send it in,
A story that is true, an incident that's new,
We want to hear from you, send it in.
Never mind about your style,
If it's only worth the while, send it in,
Alumni news will do, send it in,
Suggestions or a kick or two, send it in,
If you can brighten up the sheet,
Make its value more complete,
With a contribution neat, send it in.

Case Tech.

67905

News of the Faculty.

J. Bridge is doing research work in paleontology in the Department of Geology.

Dr. J. W. Barley has just returned from a visit to his father at Montgomery City, Mo.

Professor E. G. Harris has been carrying on a series of experiments with the new fan in the power plant.

W. L. Dobie, of the University of Wisconsin, has been appointed Instructor of Geology and Mineralogy for the coming year.

D. H. Radcliffe, Instructor in Mineralogy, was with the Tulsa Oil Co. during the summer. J. W. Shotwell, '15, was with him.

W. H. Risher, of the Civil Engineering Department, spent the summer at Flat River, Mo., studying practical mining at that place.

C. L. Dake, Professor of Geology, is now in Southeast Missouri, making a study of the sands and gravels for the Missouri Bureau of Geology and Mines.

Professor Forbes, after visiting his brother at Cleveland, Ohio, stopped in Rolla for a few days, then left for the Panama-Pacific International Exposition.

Robt. J. Anderson, B. S. in Metallurgy, Case School of Applied Science, has been elected Instructor in Metallurgy and Research Assistant of the Experiment Station.

Dr. G. H. Cox and family are now visiting in Fort Dodge, Iowa. During the summer vacation Dr. Cox visited the oil fields of California and Oklahoma, and the mines and mills of Joplin.

Neal C. Hutsinpillar, a graduate of Culver Military Academy, and an A. B. from Ohio State University, has been elected to succeed W. F. DeMoss as Instructor in English. Mr. Hutsinpillar taught at Culver Military Academy last year.

Professor McCandliss conducted a number of experiments with cement in the Materials Testing Laboratory the early part of the summer. During the past few

weeks he has been in Boonville, superintending the work on the new State Reformatory buildings at that place.

Professor John C. Ingram was in Rolla a short time ago, after having visited all the larger cities of the east. While away he made a study of the chemical departments and methods of teaching in the eastern colleges. Professor Ingram visited a number of the manufactories and chemical plants.

Don't fail to fill out the printed ballot and return to the school office.

Subscribe for The Miner.

Information Wanted.

The Director wishes to publish an up to date Register of the graduates and would like to know the address and position held by the following men:

P. B. Anderson, '97.
C. A. Baker, '08.
R. Barker, '98.
W. E. Brown, '07.
W. R. Brown, '78.
S. Chamberlain, '00.
W. N. Clark, '09.
A. I. D'Arcy, '03.
V. Elicana, '09.
C. D. Grove, '94.
H. A. Hand, '06.
G. W. Herdman, '94.
F. R. Koeberlin, '01.
C. L. Lintecum, '05.
R. W. Mackey, '10.
J. G. Martinez, '86.
J. A. Murphy, '13.
F. H. Perkins, '99.
R. Rivera, '06.
J. A. Rogers, '03.
A. B. Schrautz, '82.
E. V. Schulze, '03.
J. P. Seabee, '07.
A. M. Shah, '09.
S. Sunada, '07.
J. M. Taylor, '05.
E. C. Torrence, '98.
F. H. Walsh, '02.
G. B. Wiles, '87.
Geo. Woodhall, '01.
W. C. Wyman, '06.
H. Zirulick, '08.

Have You Qualified Yet For The
300 Booster Club.

Improvements of the Campus.

A new sidewalk is being built along the east side of the Campus, on Pine St.

The Assay Laboratory furnaces have been torn down and completely rebuilt; new muffles, a ventilator, and all modern improvements having been installed.

The Cyanide Laboratory has been built in the basement of the Metallurgy Building, with a complete equipment. A large amount of new apparatus has been installed in the Metallurgy Department, and the laboratories have been completely remodeled and restocked.

On the west side of the Chemistry Building a new stock room is being built to accommodate the first and second floors, and to give more room for the new equipment in the interior of the building.

The Gymnasium is completed throughout, and has been turned over to the school by the contractor, having passed the architect's final inspection. The swimming pool will be ready for use on the opening day of school, and a large amount of gymnasium apparatus been purchased.

A retaining wall is being built north of the Metallurgy Building, to serve as a dam for a pond, which will supply the building with water to be used in milling practice.

Dr. McRae and family have moved into the Director's Residence, on the Campus.

Twelfth St., immediately in front of Norwood Hall, has been graded.

The Electrical Department has received three new 15 K. V. A. transformers, 220-2200 volts, and a high voltage testing transformer, stepping up to 30,000 volts.

The south half of the Carpentry Building is being remodeled to serve as a Mining Laboratory. In it a pit will be dug so that practice in overhead drilling can be obtained, as well as practice with the drill in a horizontal position. A number of other minor improvements will be installed.