



18 Jun 1915

The Missouri Miner, June 18, 1915

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THE MISSOURI MINER.

Missouri School of Mines and Metallurgy, Rolla, Mo.

Vol. 1, No. 19.

Friday, June 18, 1915.

Price 5 Cents.

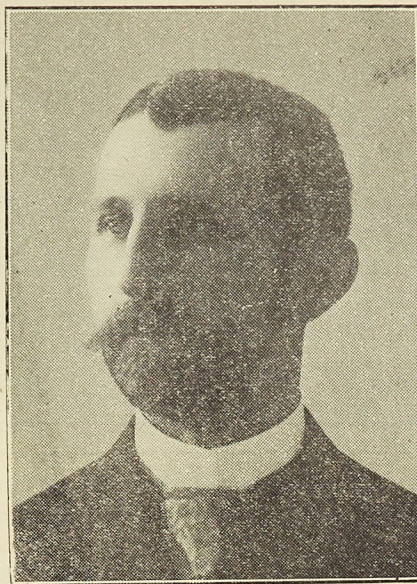
Dr. McRae's Appointment.

On Wednesday, June 2nd, the Board of Curators of the University of Missouri elected Dr. A. L. McRae, of the School of Mines, to succeed former Director Durward Copeland, who recently resigned.

Dr. McRae came to the School of Mines in 1891, as Professor of Physics. He was graduated from the University of Georgia in 1881, with the degree of B. S. Later, in 1886, the degree of S. D. was conferred on him by Harvard University. From 1882 until 1889 he was connected with the U. S. Signal Service, doing electrical work, and from 1889 to 1891 he served as Assistant Professor of Physics at the University of Missouri, being at the same time connected with the Missouri State Weather Service, which he organized and placed on a permanent basis. From 1891 to 1894 he was Professor of Physics at the Missouri School of Mines; from 1894 to 1896 he was Professor of Physics at the University of Texas. From 1896 to 1899 he was a consulting engineer in St. Louis. Since that time he has occupied the professorship of Physics at the School of Mines, serving in this capacity until his present appointment as Director.

He is a member of the Chi Phi fraternity, and of the Phi Beta Kappa and Tau Beta Pi scholarship fraternities. He is also a Fellow of the American Association for the Advancement of Science, and a member of the Society for the Promotion of Engineering Education.

We all wish Dr. McRae a most successful administration as Director, and pledge to him our loyal support for a "Greater M. S. M."



DIRECTOR A. L. MCRAE.

Promotions.

The following promotions were made by the Board of Curators at their recent meeting, to take effect beginning September 1, 1915.

Dr. J. W. Barley from associate professor of English to professor of English.

Chas. Y. Clayton, '13, from instructor to assistant professor of Metallurgy and Ore Dressing.

John C. Ingram, '13, from instructor to assistant professor of Chemistry.

Junior Trip.

Dr. G. H. Cox and Messrs Weiberg, Stifel, G. Erskine and J. Chas. Miller are studying geology in Colorado. Dr. Cox expects later to visit the Panama-Pacific Exposition at Frisco and then spend the rest of the summer in the western oil fields.

Prof. Garrett's Trip.

Prof. L. E. Garrett, who has been acting director of M. S. M. for the past two years, will take a well-earned vacation this summer. He expects to go overland in his new automobile to Sheridan, Wyoming, where he will stop at his father's ranch. Professor Garrett will probably return by way of St. Paul.

Dr. McRae Uses The Missouri Miner to Send a Letter to the Alumni.

Rolla, Mo., June 15, 1915.

To the M. S. M. Alumni.

Greeting:

The Board of Curators has elected me Director of the School of Mines. I deem it a great honor. I have been teaching in the School for nineteen years. I know a great many of you, and you know me. I feel sure that those of you who know me, know that I will put forth my best efforts for the upbuilding of old M. S. M. I take this opportunity to ask your continued loyal support of your Alma Mater. You can do a great good. Use the Director's office as a medium of exchange. When you older men need a man for work under you, let us know, and we will try to supply one. You younger men keep the office informed about yourselves, and if you are not in the kind of work you like best, we may be able to do you a service. If you send any of your friends here as students, rest assured that we will do our best for their welfare.

With best wishes to all of you, I am,

Yours sincerely,

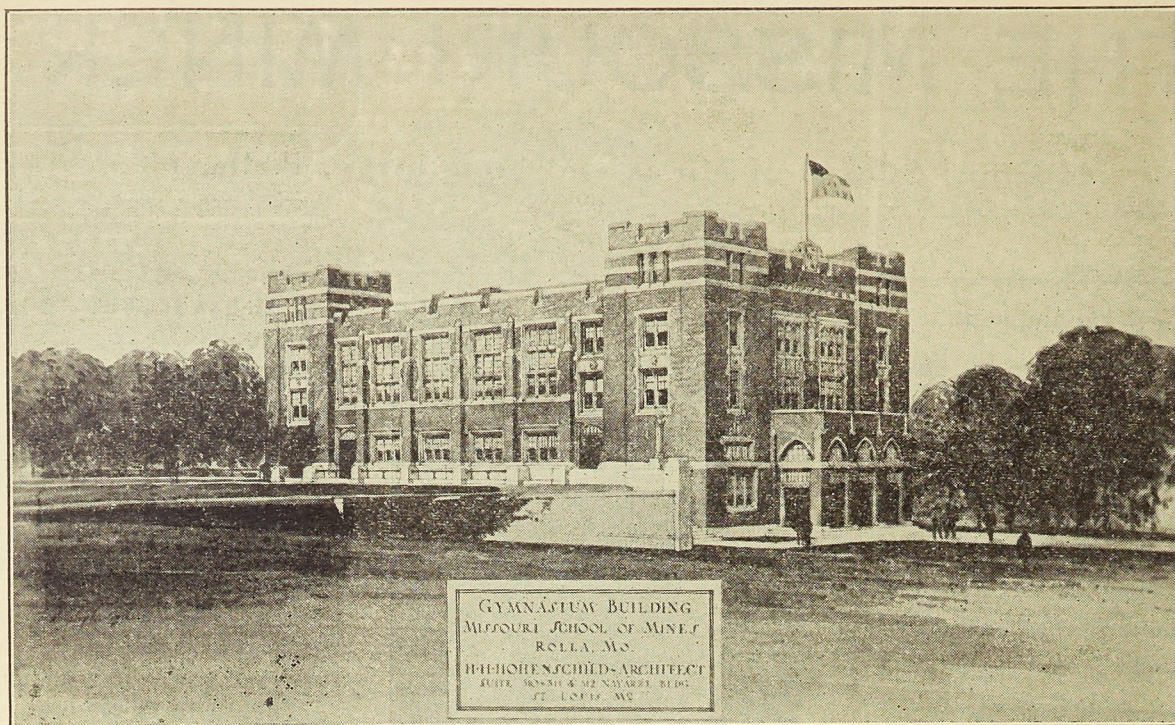
A. L. MCRAE,

Director.

Attention, Alumni and Students.

The success of The Missouri Miner was due to the hard work of its able staff and the hearty response of the faculty, students and alumni of the Missouri School of Mines. Without the loyalty of the students and alumni this paper would not be the success it has been. The present staff is now depending upon the students and alumni to further the interests of the Miner by mailing to us the subscription blank enclosed, duly filled out, as soon as possible.

The price has been reduced to \$1 per year and we need your loyal support to carry this through; so kindly mail us your subscription at your earliest convenience.



News of the Alumni.

J. W. Shotwell, '15, is at Tulsa, Okla.

Wm. Elliott, '15, is with the Federal Lead Co., Flat River, Mo.

W. M. Benham, '15, goes to work at Mascot, Tenn.

D. F. Don, '09, of Joplin, visited friends in Rolla this week.

Ray F. Rucker, '06, is Asst. Supt. Aluminum Ore Co., East St. Louis, Ill.

R. P. Cummins, '05, is assistant engineer Frisco System, St. Louis, Mo.

C. D. Smith, '13, is in the hotel business at Northfield, Minn.

Rolla State Bank.

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Henry Moore, Vice-President.

C. M. Knapp, Cashier (Treas. M.S.M.)

E. J. Campbell, Asst. Cashier.

E. D. Williams, Asst. Cashier.

Ray G. Knickerbocker, '13, is instructor at the University of Cincinnati.

E. T. Perkins, '99, and family, of Granby, Mo., are visiting relatives in Rolla.

R. G. Knickerbocker, '13, is instructor of metallurgy at the University of Cincinnati.

Earl A. Jones, '16, is working for the National Zinc Company, Bartlesville, Okla.

R. E. Dye, '12, is a consulting mining and metallurgical engineer at Cobalt, Ont.

A. H. Cronk, '12, is engineer for the Rosiclare Lead & Flouspar Mines at Rosiclare, Ill.

O. D. Neal, '13, is chemist for the Granby Smelting and Refining Co., at Neodesha, Kan.

James C. Draper, '01, at Millers, Nevada, is considering a proposition to go to South America.

E. B. Thornhill, '08, is superintendent of the refining plant of the Buffalo Mines at Cobalt, Ont.

E. D. Lynton, '12, is spending the summer with his mother at 181 Acacia Ave., San Jose, California.

Paul R. Cook, '07, is in the valuation department of C., M. & St. P. Ry., 63 E. Adams St., Chicago, Ill.

J. C. Reid, '93, general manager

Chinook Coal Co., Lethbridge, Alberta, Canada, sends best wishes.

W. M. Weigel, '00, is Superintendent for the Canadian Smelting and Refining Co., at Trout Mills, Canada.

G. E. Abernathy, '13, who owns and operates the electric light plant at Dixon, Mo., visited M. S. M. last week.

R. H. Maveety, '12, is in the estimating department of the Geuler Engineering Company, South Bethlehem, Pa.

"Shorty" Thomas, '14, is with the American Zinc Co., at Coffeyville, Kansas. He is located at 211 West 11th St.

U-La-Lay-E-Tee.

"How are you, old pal? Glad to see you. Did you know we beat the Tigers? Ches, Sir. 9 to 0. Some game, Boy. Drop a line to the Football Rooter."

Yours truly,

Charlie Parker.

Sidney
manager
Graphite
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William
Bakersfield
Miss Ann
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Sidney R. Schmidt, '11, is western manager of the International Acheson Graphite Co., 830 Webster Building, Chicago, Ill.

William D. Clark, '09, city engineer Bakersfield, Calif., was married to Miss Anna Ferguson, of Bakersfield, June 1, 1916.

Dale Barnard, ex-'07, who has been in El Oro, Mexico, since leaving the school, is taking a vacation, and will spend some time in Rolla.

H. K. Sherry, underground foreman American Zinc Co., Mascot, Tenn., passed through Rolla recently, and stopped over to visit M. S. M.

R. M. Simall, '13, passed through Rolla June 14 on his way home from Arizona. He was enthusiastic in his praise of the new gymnasium.

James K. Beach, '11, who makes Springfield, Ill., his headquarters, was in Rolla last week renewing old acquaintances, and visiting M. S. M.

F. L. Johnson, ex-'15, has resigned his position with the geological survey, having secured a position with the Blackmer Post Pipe Co., of St. Louis.

M. H. Detweiler, '11, with his wife and child, took in commencement at Rolla, and will visit his brother at Springfield, Ill., before returning to work.

Thomas A. Stroup, '12, engineer The Jeffrey Mfg. Co., has been transferred to the southwestern territory, and will make Houston, Texas, his headquarters.

E. O. Stoliker, '14, came through Rolla the early part of June, on his way from Canada to Mineral, Va., where he will be chemist for the Arminius Pyrite Co.

A. F. Truex, '14, has recently returned from a trip through the north-

ern part of the State, where he was gathering data on underground water for the Geological Survey.

M. J. Kelly, '14, Instructor in Physics at Kentucky State University, will study at Chicago University this summer. His address is 5411 Greenwood Ave., Chicago, Ill.

R. S. Webster, '03, is civil engineer in charge of maintenance of way and construction with the Havana Central Railway. His address is care of American Club, Havana, Cuba.

M. B. Burgher, '06, accompanied by his wife and two children, attended the commencement exercises at M. S. M. Mr. Burgher conducts a successful engineering and contracting business at Hannibal, Mo.

B. H. Dosenbach, '10, has just returned from New York, where he testified as expert metallurgist in a case for the Miami Copper Co. The case will be taken up again in the fall. He is now with the Butte Superior Copper Co.

F. E. Townsend, '11, who has been with the American Smelting and Refining Company in Mexico, is at his old home in Belgrade, Mo. Conditions in Mexico, according to Mr. Townsend, are bad. He is married, and has two children.

Dr. and Mrs. S. L. Baysinger announced the engagement of their daughter, Alma, to Chas. Y. Clayton, Jr., '13, Assistant Professor of Metallurgy and Ore Dressing at the Missouri School of Mines. The wedding will take place some time in July.

A. Emory Wishon, '09, assistant general manager San Joaquin Light and Power Co., Fresno, Calif., is working with Coach Dennie to arrange for a football game in San Francisco next fall, between the Rolla Miners and a University of California team.

M. S. M. is well represented in the faculty at the Oklahoma School of Mines. E. B. Barrett, '09, is President; R. C. Thompson, '04, is Professor of Chemistry; R. B. Mitchell, '11,

Bunch Barber Shop

"Nuff Sed."

is Professor of Mining, and V. B. Hinsch, '09, is Assistant Professor of Geology and Mineralogy.

Preston K. Horner, Supt. Tanganyika Concession Co., Elizabethtown, Belgian Congo, Africa, accompanied by his wife and two children, is spending two months in the United States. He visited M. S. M. commencement week. He expects to take in the Fair at Frisco, and buy some machinery while in this country.

F. J. Flynn, ex-'94, Superintendent of Smelters, Arizona Copper Co., Clifton, Ariz., recently wrote in to the school for one of the graduates desiring to enter smelter work. This is the spirit we all like to see. It is this spirit that helps the new man to succeed, and is one of the things that makes M. S. M. so well known throughout the West. If it were not for men like Flynn, a whole lot of our alumni would not be so well situated as they are.

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THE MISSOURI MINER.

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.

J. J. DOYLE,	- - - -	Editor.
B. L. ASHDOWN,	- - - -	Assistant Editor.
H. E. KOCH,	- - - -	Business Manager.
Associates:		
E. G. DEUTMAN,	- - - -	G. E. KUBLIN,
G. E. EBMAYER,	- - - -	M. L. TERRY.

Published Every Friday.

RATES: { Single Copies, - - - 5 Cents.
Per Month, - - - 15 Cents.
Per Year, - - - \$1.00.

History of the Missouri Miner.

The Missouri Miner is an accomplishment, and a result of the efforts of certain members of the Class of '16. It was planned and promoted by Mr. Fred Grotts, who, after obtaining the consent of the faculty, started immediately to prepare a publication for the best interest of the Missouri School of Mines.

Mr. Grotts chose Mr. J. L. Head as Editor, and Mr. G. E. Johnson as Business Manager of his new enterprise. With these two able and competent men, who have helped make the Miner a success, Mr. Grotts issued his first publication on January 29, 1915. It met with approval and interest by all, and its success was assured. The Miner then continued to be published once a week, and will continue, let us hope, forever.

The second volume will begin about September 1, 1915, and continue once a week until June 1, 1916.

This number is being mailed, not only to all of the subscribers to volume 1 but to all of the alumni whose addresses could be obtained. Many of you may not have heard of The Missouri Miner. Some of you may like to receive it regularly next year. It will cost one dollar a year. H. E. Koch, '16, is business manager and will be in Rolla Sept. 1, to receive and receipt for all subscriptions.

If the dollar is burning your pocket and you want to get rid of it before Sept. 1, you can send it to J. J. Doyle, '16, editor, who is at work at the geological survey at Rolla during the summer.

News of The Students.

J. R. Fielder is at Shelbyville, Ind.
M. L. Terry, '18, is at Mound City, Mo.

J. A. Worley, '16, is working in Joplin, Mo.

Herman Vogel, '16, is working at Jerome, Arizona.

V. H. Doeling is working at Louvier, Colo., for the summer.

Fred Grotts is studying chemistry at the University of Illinois.

F. D. James is with "Shorty" Thomas at Coffeyville, Kansas.

R. S. Burg, '17, and H. M. Wilson, '15, are working at Carterville, Mo.

L. W. Ehlers and H. G. Corby are working in the mines at Carthage for the summer.

W. H. Freudenberg, '17, is working with the Anaconda Copper Mining Co., at Butte, Mont.

Carl G. Stifel, '16, expects to visit the Frisco Fair and attend the Kappa Sigma convention there in July.

J. J. Dowd, '16, and Schnaidt, Zoller and Maness of last year's freshman class, are working in Webb City.

Rice, '17, and Stoner, '17, are selling aluminium ware for the Aluminium Cooking Utensil Co., and are making good money.

E. E. Decker is working in the post office at Tulsa, Oklahoma. He expects to bring back several prospective "Miners" with him.

W. C. Hogoboom, '14, Sigma Nu, has resigned his position with the State Geological Survey to accept a position with the Southeast Missouri Lead Co., at Potosi, Mo.

Greene Erskine, '16, and Weiberg, '16, will visit the Frisco Fair this summer. Erskine expects to visit the San Diego Exposition and Seattle, then return to St. Louis by way of St. Paul.

Winlock W. Miller Jr. and Miss Frances Welch were united in marriage in Hannibal Saturday, June 12, 1915. Mr. Miller, who was a student at M. S. M. in 1909, and a member of the Sigma Nu fraternity, is now in business in St. Louis.

G. E. Johnson is at his home in Great Falls, Montana. "Johnny" will take a trip along the Pacific Coast later in

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Student's Headquarters

for

M. S. M. Supplies

the summer, taking in both expositions and visiting some of the mines and smelters of Arizona. He is M. S. M. delegate to the Tau Beta Pi convention at Frisco in September.

Quite a large class made the mine surveying trip this year. Professor Forbes and Mr. Risher were in charge of the class, with Head, McCartney and Shaw as assistants. There were four squads. Worley, Bock, Heman, Lumaghi and Elfred making up the first; Barton, Brown, Pape and McComb the second; Ritter, Kluge, Hippard, Steele and Freudenberg the third; and Craig, Weeks, Lyons, Nevin, and Bennett made the fourth.

Students of M. S. M. wherever you may be,
In whatever clime at whatever time
That the spirit moveth thee.
And you feel in your heart that its time
to start

To lay by for the rainy day.
Get your life insured and rest assured
That your troubles will pass away.
Let me start you right, and like a ship in
the night,
Old worry will pass you by.
For the payments made on a twenty-year
paid
Will be velvet by and by.

B. H. RUCKER,
Insurance.
Fire. Life. Accident.

You Old Grads,

When you come back to see your
old girl,

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Commencement Exercises.

The commencement exercises of the class of 1915 were held on the morning of May 28. The seniors, whom we have been accustomed to see in khakis and corduroys, looked very dignified in the caps and gowns.

Prof. E. J. McCaustland, dean of the school of engineering of the University, delivered the commencement address. His subject was "The Place and Influence of the Engineer." It was an inspiring talk, given in an excellent manner, and was one of the best addresses ever given at M. S. M.

President Hill addressed the seniors and later conferred on them their degrees, bringing to an end four of the best years of their lives. Falkenhainer's orchestra rendered the music for the occasion.

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ALUMNI
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Commencement Ball.

The annual commencement ball held on the evening of May 27, was an immensely brilliant occasion. The dance was held in the new gymnasium, it being the formal opening of the building.

The hall opened at 9 o'clock. The grand march being led by President Hill of the University, and Mrs. McRae. Then sixty-five couples danced to the strains of Falkenhainer's orchestra. Later in the evening a splendid supper was served in Mechanical Hall.

A number of out-of-town folks attended the affair and the running track was filled with spectators. The commencement number of the Miner was passed out to the dancers during the intermission.

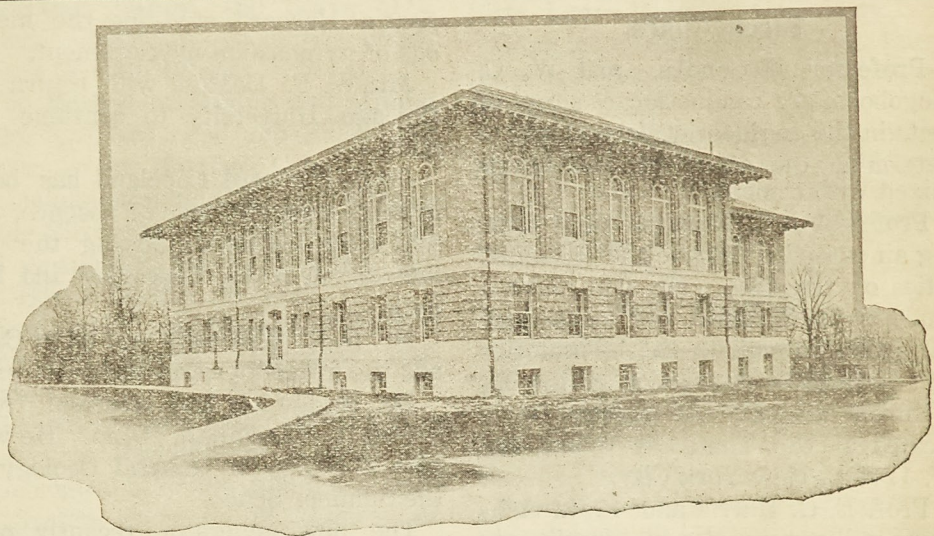
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PARKER HALL.

PROGRAM.

Music, March, "My Missouri,"
A. M. Livesay
Falkenhainer's Orchestra.
Invocation, Rev. H. Nelson Tragitt
Music, Overture, "Pique Dame,"
Von Suppe
Commencement Address, "The Place
and Influence of the Engineer," E.
J. McCaustland, Dean of the School
of Engineering of the University.
Music, Humoreske, Dvorak
Address, Albert Ross Hill, LL.D.
President of the University.
Theses, Read by Title Only
Conferring of Degrees, By the President of the University.
Music, Selection, "Chin Chin,"
I. Caryll
Benediction, Rev. E. M. Romine
Finale, "There's a Dream in the
Heart of the Rose," Falkenhainer

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M. S. M.

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Faculty Notes.

Professor McCandliss and W. C. Hogoboom are conducting a series of tests in the engineering laboratory, to determine the effect of iron filings mixed with cement.

Professor J. C. Ingram, '13, is making an extended tour of the principal cities of the East. He will make a study of the chemical and metallurgical plants, as well as the laboratories and methods of instruction of the big technical schools. At present he is located at the Theta Xi House, 618 W. 113 St., New York City.

Prof. E. G. Harris and B. L. Ashdown will run a series of experiments on the measurement of air discharge of ventilating fans.

Dr. Barley expects to make a fishing trip to Scotia, Mo., the latter part of

I am pleased to inform the old, as well as the new students that I am still doing business in the same old stand. The same courteous treatment prevails.

The Delmonico.

Clyde Reinoehl,
Manager.

this month. We expect to hear some unparalleled tales of how the big ones got away when the Dr. returns.

Mr. Rischer has remained in Rolla to take a course in assaying.

Prof. P. J. Wilkins has been retired on the Carnegie Foundation Fund. At present he resides in St. Louis, Mo.

Prof. Forbes will visit his brother at Cleveland, Ohio, for a short time, and will later take in the fair at San Francisco.

Prof. Mann was called to the bedside of his mother just before commencement. We are informed that Mrs. Mann died on the 25th of May, before her son reached home.

Athletic Director Dennie will spend a part of the summer with Dr. Sargent at Harvard, studying the methods of gymnasium measurement.

Mr. W. F. DeMoss will return to Chicago University to continue his studies.

Prof. Durward Copeland has been granted a year's leave of absence. He will spend his time studying the tin industry in Wales, Singapore and Bolivia.

Mr. G. T. Wilkinson will be in Canada the greater part of the summer.

Mr. Bridge has just returned from a visit to Cincinnati, Ohio. He will give a course in General Geology at the Summer School.

The new generator, recently patented by Prof. Dean, is rapidly nearing completion.

Prof. G. T. Wilkinson is spending the early part of his vacation at North Baltimore, Ohio.

Summer School Notes.

Quite a number of students are remaining in Rolla to take summer courses, and at the same time enjoy

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F. W. WEBB,
Cashier.

We shall be pleased to open accounts with new students.

the restfulness of a very quiet country town. The picture show, however, helps while away the evenings. Needless to say, the Rolla girls, after the strenuous social duties of the winter season, are not so busy now, and one can make a date by calling up at least a week ahead.

Professor Gottschalk is offering quantitative analysis lectures and laboratory. Professor Clayton has classes in metallurgy laboratory, cyaniding, slag analysis and assaying lectures and laboratory, while Mr. Bridge is giving geology 3b.

The students signed up for summer school are W. Gammeter, E. A. Kayser, B. L. Ashdown, A. T. Dunham, Chas. Gold, H. T. Heimberger, F. Herman, Y. Klepel, J. J. Krebs, W. H. McCartney, C. E. Peterson, V. X. Smith, K. Aid, H. A. Ambler, J. H. Bock, R. R. Robards, H. J. Schiermeyer, R. E. Valesco, T. P. F. Walsh, G. B. Wilson, H. W. Doennecke, T. E. Golick, F. B. Ore, J. J. Doyle, W. H. Risher, F. D. Scanlan, L. N. Hoppock.

J. A. ALLISON,
JEWELER.

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Degrees Conferred, 1915.

Engineer of Mines.

Maurice Merton Albertson, B. S. 1911; Charles Adrian Burdick, B. S. 1910; Arthur Harrison Cronk, B. S. 1912; Robert Emmett Dye, B. S. 1912; Edward Dale Lynton, B. S. 1912; Vachel Harry McNutt, B. S. 1910; Edwin Bryant Thornhill, B. S. 1908.

Bachelor of Science in Mine Engineering.

Willard Miles Benham, Daniel Webster Blaylock, Horace Herbert Clark, Lister Merriken Cummings, Theodore Saunders Dunn, William Elliott, Roy Watson Griffin, John Warder Shotwell, Homer Marvin Wilson.

Metallurgical Engineer.

Durward Copeland, S. B. 1903, Mass. Inst. Tech.

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Boyd Dudley, Jr., B. S. 1908; George William Harris, B. S. 1904.

Bachelor of Science in Metallurgy.

Albert Leo Trent.

Bachelor of Science in Civil Engineering.

Augustus Wilhelm Gleason, Sidney Raymond Hatch, Clinton DeWitt Smith.

Bachelor of Science in General Science.

Reginald Scott Dean, Abe Lew Kaplan.

Theses Submitted in 1915.

The Seneca-Superior Mine and Mill, Maurice Merton Albertson.

The Thermal Conductivity of Refractories, Boyd Dudley, Jr.

The Determination of the Monthly Extraction Record and Curve of a Modern Mexican Cyanide Plant, George William Harris.

The Method of Mining and Milling at the Rosiclare Lead and Fluor-Spar Mines, Arthur Harrison Cronk.

Amalgamation and Refining of High Grade Silver Ores Containing Arsenic and Antimony, Robert Emmett Dye and Edwin Bryant Thornhill.

Engineering and Geological Work at Cananea, Mexico, Edward Dale Lynton.

Geological Examination of Petroleum Properties, Vachel Harry McNutt.

Geological Mapping Along the Frisco System Between St. James and Pacific, Missouri, Willard Miles Benham and William Elliott.

An Efficiency Test of a 36" Mine Ventilating Fan, Daniel W. Blaylock, Edward A. Schroer and Elton A. Miller.

Effect of Compression and Transmission on the Illuminating and Heating Value of Carburetted Water Gas, Horace Herbert Clark.

Flotation Applied to Silver Ores, Albert Leo Trent.

A Comparison of the Building Specifications of Various American Cities, Augustus Wilhelm Gleason.

The Design of a Concrete Steel Arch Bridge, Clinton DeWitt Smith.

The Electrolysis of Potassium Lead Tartrate Solutions, Reginald Scott Dean.

The Refining of Lead in Sugar Solutions, Abe Lew Kaplan.

Comparative Tests of Piston Drill

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Bitts, Lister Merriken Cummings.

Gaging the Gasconade River, Lawrence Collins and Sidney Raymond Hatch.

Cyaniding of Silver Ores, Roy Watson Griffin and Homer Marvin Wilson.

The Relation Between the Composition and Occurrence of Petroleum, John Warder Shotwell.

A Big Surprise.

One of the big surprises of the commencement was the conferring of the degree of Metallurgical Engineer upon Prof. Durward Copeland, who is Professor of Metallurgy at M. S. M. At a special meeting of the Faculty on the morning of commencement it was decided by unanimous vote of the Faculty to confer this honorary degree upon Prof. Copeland.

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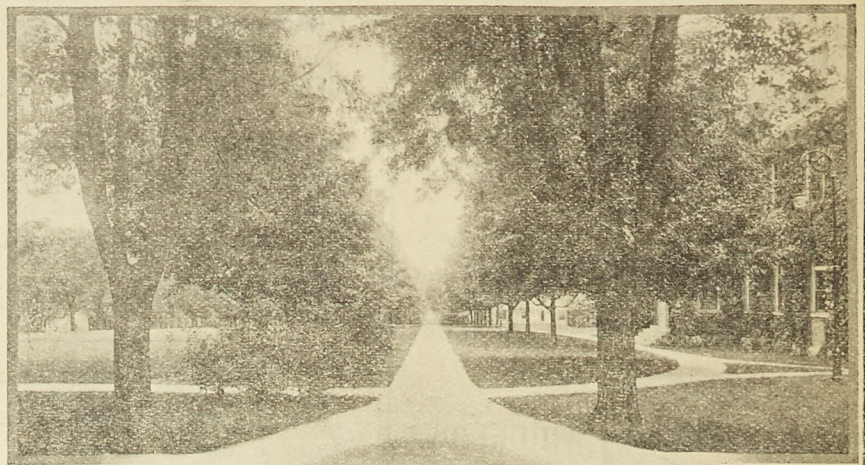
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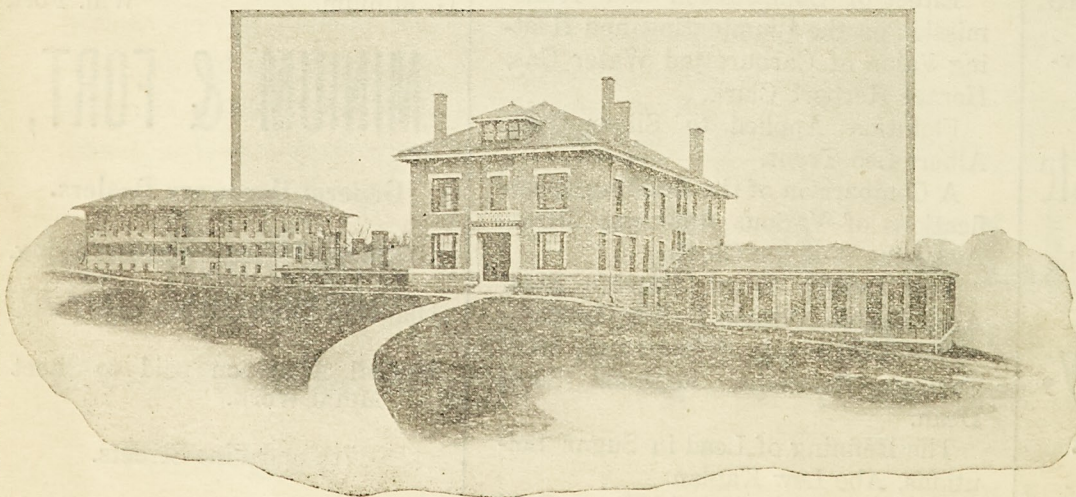


CAMPUS VIEW.

M. S. M. BOOSTER CLUB.

Join the M. S. M. Booster Club. The initiation fee is nothing, and the annual dues are the same. Remember that the Students and Alumni are a part of the College. In boosting M. S. M. you are helping to boost yourself and your fellow students.

Let every old student when he returns to school next September bring at least one Freshman with him. If you can bring more, so much the better. You can do this if you only make the effort. We ought to pass the 300 mark in our enrollment next year. Just think how this will help the Athletic Association, the Rollamo, The Missouri Miner, and every school organization. If you need catalogues or literature write to Dr. McRae.



METALLURGY AND ORE DRESSING BUILDING. PARKER HALL AT THE LEFT.

Let's all push together. We can help M. S. M., we can help ourselves both directly and indirectly. Who will help? EVERYBODY.

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