



18 May 1938

The Missouri Miner, May 18, 1938

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THE MISSOURI MINER

MISSOURI SCHOOL OF MINES & METALLURGY

Z385

VOLUME XXIV

ROLLA, MO., WEDNESDAY, MAY 18, 1938

NUMBER 33

Miners Win First M. I. A. A. Title When Golfers Annex Crown at Maryville

Watts Turns In 156 For Individual Honors; Track Team Slips To Fifth Place.

By B. C. Compton

Floyd Watts and Buddy Clayton won the golf tournament at the annual M. I. A. A. track, tennis, and golf carnival held Friday at Maryville, Mo., to give the School of Mines its first championship since it has been in the loop.

Watts won the individual title with a brisk 156 for 36 holes, while Clayton stroked 173 for sixth place. The combined scores gave the Silver and Gold twosome six strokes over the Kirksville team.

The Miner track team disappointed their followers by slipping down into fifth place, with only Warrensburg below them. The Miners scored 15½ points, with five of these coming from Morrow's first in the javelin throw.

The two-man tennis team of Harsell and McKee trimmed the Warrensburg team in the first round, but was later eliminated by Cape Girardeau, who then lost to the eventual winner, Springfield. Harsell drew Leon Miller, Springfield's number two man, and was eliminated in the singles, 6-3, 6-4. McKee then had the bad luck to draw one of the best players in the state, Gerald Perry of Springfield, and went down to defeat, 6-1, 6-0.

Morrow's first in the javelin was the only Miner first in track, while Julian Jackson scored the only second, that in the high jump. A heavy rain that preceded the meet for two hours left the field in a muddy condition and the track

Continued on Page Three

Jackling Honored at St. Louis A. I. M. E. Banquet

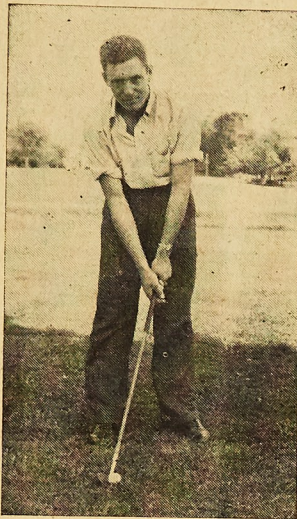
Dr. D. C. Jackling, national president of the A. I. M. E., was honored May 9 by a banquet given by the St. Louis Section of the society during its annual meeting at the Hotel Chase.

Speaking at the banquet, Dr. Jackling narrated the role played by Missouri and the city of St. Louis in the development of mineral resources of western United States and told of the importance of the southeast Missouri lead district.

The new officers were elected at the meeting. They are: chairman, J. H. Reed, of the St. Louis Smelting and Refining Co.; vice-chairman, Director W. R. Chedsey; co-secretary, W. A. Schaeffer, '24; Professor G. W. Noble and Dr. H. A. Buehler were elected members of the Exercise Committee.

Those of M. S. M. included in the large attendance were: H. W. Hurst '21, M. L. Clark '29, H. R. Stahl '18, L. A. Delano '04, M. B. Burgher '06, M. E. Riley '37, H. A. Neustaedt '16, W. M. Weigel '00, H. A. Buehler '25, H. S. Pence '23, W. A. Schaeffer '24, H. R. Hanley, '01, C. Y. Clayton '13, Melvin Nickel '38, Joe Howerton '38, and Chas. Lee Clayton '38. Mr. H. S. McQueen of the Geological Survey acted as toastmaster of the banquet.

M. I. A. A. Golf Champ



Floyd Watts

St. Pat's Board to Refurnish Club Room

\$200 Of Furniture, New Gym Fountain Ordered

The St. Pat's Board, awake to the needs of the campus, is re-outfitting the Club Room with a set of new furniture. This furniture, consisting of one settee and four occasional chairs of modernistic tubular aluminum, has already been ordered.

In addition to this, the Board has ordered a new drinking fountain for the gym. This fountain, instead of replacing the old one already in the Gym, will be installed on the upper floor. Another fountain to replace the old one has been ordered by the school.

The Board also considered plans for a permanent ladies' dressing room at the Gym. At present such facilities at the Gym are inadequate.

M.S.M.

FACULTY ADDRESSED BY PROF ALLEN ON A.A.U.P.

Thirty-two members of the M. S. M. faculty turned out to hear Professor E. S. Allen of the Department of Mathematics, Iowa State College, Ames, Iowa, give a talk on organizing an A.A.U.P. at M. S. M. Professor Allen gave a brief discussion of the make up and the activities of the organization. It was disclosed that the association was organized as a protection for college professors and as a forum for professors all over the country.

Director Chedsey followed Professor Allen's talk with a discussion explaining the necessity of a chapter at M. S. M. The A. A. U. P. would insure a closer and friendlier relation between Missouri University and the School of Mines. It would prevent any unreasonable rearrangement of the faculty.

At the close of the meeting Dr. Miles was appointed the chairman of a committee that is to organize a chapter at M. S. M. Professor E.

Continued on page six

DANCE CRASHING MUST END, SAY FRATERNITIES

At their meeting Thursday night, the Inter-Fraternity Council decided that "crashing" of dances will not be tolerated in the future. The Council's By-Laws, providing for a \$2.50 fine for a Fraternity man, or a "report" to the office of an Independent, caught "crashing" a dance, are to be strictly enforced.

Play-offs for the Inter-Fraternity Cup in Softball was arranged. In League B, Sigma Pi, Sigma Nu, and Pi Kappa Alpha will play off a three-way tie, the winner meeting the winner in League A. League A has not yet finished its schedule. An Inter-Fraternity Cup for all intra-mural sports was also discussed.

M.S.M.

Navajo Expedition Open to M S M Men

Cooperative Summer Trip Will Encompass Southwest

New York, May 10th. — Two University of Missouri (including M. S. M.) men may be chosen to join the Expedition for the exploration of the northern Navajo country in Arizona and Utah this summer. The men may be students or instructors and should be interested in engineering, archaeology, geology, or in the biological sciences—or in the management of a scientific expedition, it was announced today at the Explorers Club by Dr. Charles Del Norte Winning, Field Director of the Rainbow Bridge-Monument Valley Expedition.

The Expedition is to explore, map, and study an area of some 2000 square miles in a remote region that is probably farther from a railroad than any other point in the United States. Penetrating as far as possible by motor, the field party will then move equipment by pack train up winding canyons out into Rainbow Plateau. Near the head of the Dogosshi Biko, base camp will be established, and from this point scouting parties and scientific workers will push on afoot.

Ansel Franklin Hall, President, The American Exploration Society, under whose direction the Expedition is organized, states:

"We have already begun our explorations in that fascinating coun-

Continued on page six

Rev. K. D. Beach of Kansas City to Deliver Baccalaureate Address Sunday at 11:00

R. O. T. C. GROUP AT FOUR CAMPS THIS SUMMER

Our campus soldiers of the R. O. T. C. will be a divided lot this summer as some will go to each of four different camps. Ft. Riley, Kansas; Camp Bullis, Texas; Ft. Knox, Ky.; and Edgewood Arsenal, Md., will be their respective stomping grounds.

L. C. Elliot, Forrest Troutner, Leroy Smith, and Kermit Siegrist are four of twenty chosen from this Corps area to attend an ordnance school at Camp Bullis, near San Antonio, Texas.

R. M. Stewart will be at Ft. Knox, Ky., and H. F. Crecelius will attend a school of chemical warfare at Edgewood Arsenal, Maryland.

The remaining camp goes will take their training at Ft. Riley, Kansas.

M.S.M.

White's Paper Wins First A.I.E.E. Award

Thesis On Antennas Best Among 22 Papers

Warren D. White was awarded first prize in the Student Paper Contest at the Annual A. I. E. E. Student Branch Conference for the Southwest District for his paper "Vertical Directivity Applied to Broadcast Antennas." This contest was held at Kansas State College, Manhattan, Kansas, May 6th and 7th. There were twenty-two papers in the contest submitted by students from fourteen (14) engineering schools in the States of Missouri, Kansas, Arkansas, Oklahoma, Texas and New Mexico.

M.S.M.

R. S. Dean Visits Rolla

Reginald S. Dean, '15, chief engineer of the Metallurgy Division of the United States Bureau of Mines, Washington, D. C., was a visitor to Rolla again last week. The son of the late Prof. G. R. Dean, professor of mathematics at the school here for many years, Dr. Dean visited his mother and made final arrangements for the work program of the local U. S. B. M. Station.

Subject of Sermon To Graduates Will Be "The Desert And The Rose"

Rev. King D. Beach, Pastor of the Trinity Methodist Church in Kansas City, will deliver the Baccalaureate Sermon next Sunday, May 22 at 11:00 A. M. The subject of his address is "The Desert and the Rose."

Rev. Beach is connected with the School of Mines campus through his son, John Beach, and his sister, Mrs. I. H. Lovett.

Investigation of his interesting life revealed a trip to Europe on a financial shoestring. He crossed the Atlantic on a cattle boat and toured the continent on a bicycle.

M.S.M.

Senior E. E's. Return From Trip with Jobs

Seventeen senior electricals returned to Rolla last Saturday evening after spending a week in Chicago on their senior trip. During this week the seniors visited many of the steel plants, electrical appliance manufacturers, broadcasting studios, power plants, and other places in and near Chicago of interest to electricals. All day Saturday was given over to visiting museums, aquariums, and similar places.

Two of the seniors, Curnutt and LeGrand, were definitely given positions, and several others will probably receive positions in the near future as a result of the trip.

Prof. Frame and Prof. Ranes accompanied the seniors on their trip. Those who went on the trip were C. R. Curnutt, W. A. Ford, A. Gates, M. A. Gibson, A. M. Glazer, B. W. Koepfel, J. S. LeGrand, B. H. McCurdy, R. W. Matthews, F. M. Mueller, R. A. Jarboe, V. A. Sanders, R. C. Seibel, H. M. Smith, F. W. Thompson, O. C. Walley, and W. D. White.

M.S.M.

JAENECKE AWARDED A. S. M. E. MEMBERSHIP

"Thank you," said D. R. Jaenecke when selected by the Mechanical Engineering Faculty from three senior members of the local A. S. M. E., who were named the greatest contributors to the Society during the past year at a short business meeting last Wednesday at 11 a. m., for the recipient of a ten-dollar junior membership in the national society.

The award was made by the national society and is the equivalent of one year's junior membership. The other two men chosen by the chapter were Harry L. Gerwin and J. Craig Ellis.

Also four books were awarded members of the local chapter by the national society, whose recipients were selected by popular vote as follows:

Chairman A. Earle Rhodes received a five-dollar book by Archibald Douglas Turnbull. The other three were Engineering Achievements of George Westinghouse, and were given to D. R. Jaenecke, Harry L. Gerwin, and J. Craig

Continued on page six

Commencement Week Program

Sunday, May 22—11:00 A. M. Parker Hall
Baccalaureate Exercises
Reverend King D. Beach
Kansas City

Monday, May 23, 8:00 P. M. Gymnasium
Reception to Students,
Faculty, and Visitors

Commencement Ball, 9:30 P. M. Gymnasium

Tuesday, May 24, 10:00 A. M. Parker Hall
Commencement Exercises
Address By Mr. George Albert Easley
Mining Engineer
New York City

Presentation of Commissions, R. O. T. C.

THE MISSOURI MINER



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FACULTY ADVISER .. DR. ARNOLD WILLIAMS

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IN LATE RECOGNITION

Dr. Barley's name first appears in the MISSOURI MINER as faculty adviser on Nov. 24, 1924. It last appears as such in the April 6, 1938 issue. This corresponds to a tenure of thirteen and a half years. On his recent resignation Dr. Arnold Williams was selected in his place.

During our recent visit to the Missouri College Newspaper Convention at Columbia we gathered from speaking to the journalists from other colleges that in several the faculty adviser is a constant source of interference and irritation to the student officers of the paper. This is probably true in quite a large number of other colleges.

In some colleges this takes the form of censorship and policy direction; in others the advisor takes all of the initiative, telling the reporters what news to get, the officers what news to print and how to print it, and laying out the paper himself. In one case, we were told, the faculty adviser does nothing until the editor and his staff have gotten the paper ready to print, then he steps in and changes it to suit himself.

Under these circumstances it becomes doubtful whether the paper is a student newspaper.

Dr. Barley has never attempted to circumscribe the freedom of the press at M. S. M. He has made himself available when help or advice was needed, but he did not make himself obnoxious. We want to compliment Dr. Barley on his many years of service.

M. U. STUDENTS DIE OF OVER WORK!

Last week we read an article in the Post-Dispatch by Dr. Dan G. Stine, director of student health at the University of Missouri, who complains that for ten years he has been calling attention "to the 'pressing' problem of high mortality and morbidity among univers-

ity students who carried a load of scholastic studies 'which was evidently too heavy for their physical make-up.' " He also blames their high mortality rate and epidemics upon poor housing and insufficient food.

If the "heavy scholastic load" is any cause of mortality, then we cannot understand why M. S. M. students are not dying like flies, for the average schedule at the University is 15.5 hours approximately, while at M. S. M. the average is about 20.

And perhaps the popularity of the 'jelly joints' is the explanation of the poor food.

But who knows? Maybe we would die too if we had to go to school three hours a day at M. U. when we could be jelling in a joint with a real honest-to-gosh coed.

The privations and hardships at the University must be very great indeed.

A WORD ABOUT WORDS

It is an age old supposition that an Engineer must be "rough and ready" to hold his position. It is on this pretext that we average Miners learn to mutter an oath between each word. At first this seemed smart to us, when we were in high school or first at college, but it finally grows on us and with the help of four years of excellent college practice we soon become so proficient that it breaks out into our conversation with more cultured persons. Our natural reaction is a feeling of inferiority to our Liberal Arts College friends on the polite lecture platform or in the presence of business leaders.

It should be the place of an Engineering College to teach oratory and public speaking and the duty of we, the students, to look more to our language because the "first-mate who had the 'smooth' tongue is now the commander."

CRITICISM

There are two types of criticism, constructive and destructive. Then under each of these types comes just and unjust criticism. Every day we criticise innumerable policies, rulings, and customs, without first considering whether or not we are qualified to make the criticism. Too much of this criticism is either unauthorized or biased, thus listing it under the destructive, unjust criticism. It is a hindrance to the organization, to the school, and to ourselves. We criticise the Student Council, the St. Pat's Board, the Blue Key, the Miner Board, and others, but what are we doing to better the criticised conditions? Why not get out and do some work in the organizations? Then, perhaps, criticising talent could be used by ourselves to an advantage. An analogy can be made of our campus government and our national government. What right have we who never vote and never take a part in governmental functions to criticise their actions? THINK, fellows, before you criticise.

NATIONAL YOUTH POLL

With 31,515 students from 101 colleges voting in the Brown Daily Herald-United Student Peace Committee Survey on Peace, pronounced sympathies for neutrality, withdrawal of American Troops from China, passage of the billion dollar naval appropriations bill, and establishment of R. O. T. C. on an optional basis, have been indicated.

Results from the survey are not complete and further statistics will be announced later. Thirty states are represented in the tabulations to date.

American withdrawal from China and application of the neutrality act has a 2-1 majority over collective security or unilateral action against Japan by the United States in the Far Eastern question. In the question of a permanent U. S. peace policy, neutrality registers exactly the same vote, while collective security ranks a little higher. Isolation rates low, while the Spanish situation draws but little attention. Despite the pro-boycott propaganda campaign, students still do not support it as overwhelmingly as has been often stated.

Perhaps one of the most interesting results is the large vote cast in favor of American entrance into a revised League of Nations, and for action by the United States leading toward progressive disarmament; particularly is this interesting in view of the light vote for an aggressive collective security either through economic or military sanctions.

The R. O. T. C. issue brought forth a tremendous majority for optional drill only, with only a few votes cast for compulsory drill even in R. O. T. C. colleges as a whole. Abolition of the organization entirely was favored over establishment of compulsory drill.

Providence, R. I. (A.C.P.)

The budget for Columbia University for the fiscal year beginning July 1 will be \$14,806,021.

Twenty-Three Years Ago

May 18, 1915

By Ray E. Vaughn

Twenty-three degrees will be conferred at the forty-third annual commencement May 28. Their distribution is as follows:

Degree of Engineer of Mines, 8; Bachelor of Science in Mine Engineering, 9; Bachelor of Science in Metallurgy, 1; Bachelor of Science in Civil Engineering, 3; Bachelor of Science in General Science, 2.

Over half of the total student body turned out last week for the election of the 1916 Miner Board. The board of managers was re-elected and given power to name the other members of the staff for the new year. Plans are being made to increase the size of the 7x9, eight page paper to 9x12 and eight pages.

It is being planned to send the Miner football team next fall to the Panama-Pacific International Exposition at San Francisco, where they will play a series of football games. Coach Dennie received a letter from the assistant director of athletics at the exposition requesting the dates that would be most suitable for the games, and asking if our university is in a position to send its team to the Exposition.

Professor C. R. Forbes will be in charge of the sophomore mine surveying trip to Edwardsville, Ill., which starts Monday.

—M.S.M.—

\$900 TO BE AWARDED COLLEGE STUDENTS

For the purpose of encouraging the adequate teaching of traffic safety and interest in the subject by students, C. I. T. Safety Foundation for the second year is offering cash awards totalling more than \$2,000.00 to high school and college students and school teachers. Entries to be considered for this year's award must be submitted before June 30, 1938.

These awards are in addition to the Foundation's Grand Award for 1937 of \$5,000 recently presented to Paul Gray Hoffman, president of the Studebaker Corporation and Automotive Safety Foundation, and awards totalling more than \$2,500.00 to newspapermen for meritorious efforts during 1937, also

Food For Thought

AN ETERNAL SOURCE OF HAPPINESS

It is surprisingly easy to lose ourselves in the trials and tribulations of every day life. The educational and social phases of our existence absorb us so completely in a mass of details that we lose sight of our main purpose, our eventual goal. That being the case, let us remind ourselves of our aims so that they may not be sidetracked into oblivion by the complexities of modern life.

The most general expression of the universal goal is found in the word happiness. Happiness manifests itself in so great a number of different forms that its definition is general, too. It is a genuinely pleasant state of mind induced by satisfactory conditions. We must therefore look for sources of permanent satisfaction. Here is where we must beware of kidding ourselves. For those who have not been privileged with any appreciable amount of luxury, material satisfaction seems the most desirable. The law of diminishing returns says that satisfaction thereby gained is temporary and limited. What is a source of unlimited happiness? It lies in the satisfaction of our inner selves, it lies in mental satisfaction, and it lies in the absorption of the world's beauties.

—Anonymous in Person.

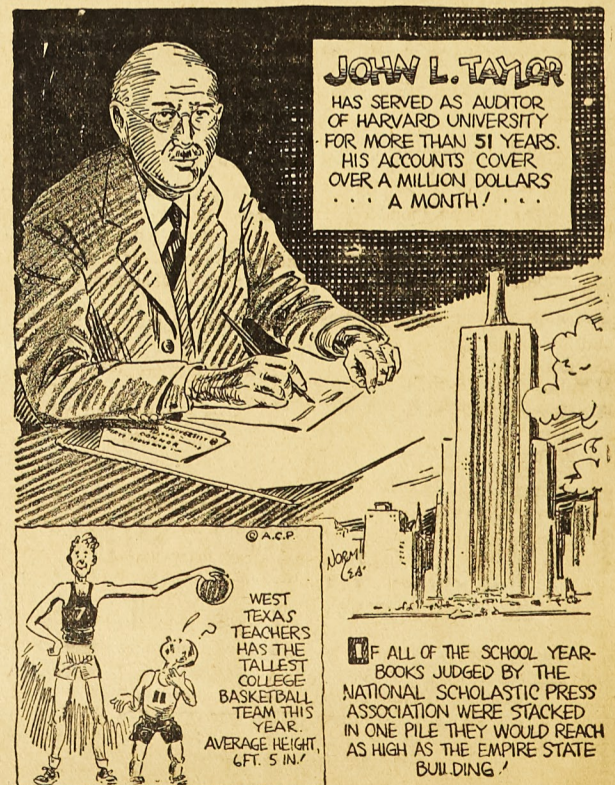
presented on March 23, 1938.

According to the rules and regulations set up by the Foundation, the acceptable material for consideration and cash amounts to be awarded to students are as follows:

College students: "for the best original theses of not more than 5,000 words on the subject of traffic safety with attention given to a thorough knowledge and coverage of one phase of traffic safety problem and phrased simply enough to permit possible publication: first \$500; second, \$250; third, \$100; two honorable mentions, \$50 each."

The C. I. T. Safety Foundation is sponsored by C. I. T. Corporation, leading national automobile sales finance company. Complete details of these awards will be sent to those interested, who address their request to C. I. T. Safety Foundation, One Park Avenue, New York City.

Eyes Over The Campus



What? When? Where?

WEDNESDAY, MAY 18

Alpha Chi Sigma, 7:00 P. M. Chem. Bldg.
Blue Key, 7:30 P. M. Club Room

THURSDAY, MAY 19

Theta Tau, 7:30 P. M. Club Room

FRIDAY, MAY 20

Blue Key Awards, 11:00 A. M. Aud.
Photography Club, 7:30 P. M. Club Room
Sigma Pi Dance

SATURDAY, MAY 21

Theta Kappa Phi Dance

SUNDAY, MAY 22

Baccalaureate Address, 11:00 A. M. Aud.
Rev. King D. Beach

MONDAY, MAY 23

Reception to Students, Faculty, Visitors,, 8 P. M., Gym
Commencement Ball, 9:30 P. M. Gym

TUESDAY, MAY 24

Commencement, 10:00 A. M. Aud.
Miner Staff, 7:00 P. M. Power Plant

WEDNESDAY, MAY 25

St. Pat's Board, 7:00 P. M. Club Room
Ira Remsen, 7:30 P. M. Chem. Bldg.

Prof. Cagg Credits Technical Words For Growth of Language

In a recent study on the technical word in the English of the United States, Prof. M. H. Cagg states that our everyday language of today has increased mostly since the beginning of our nation by the addition of technical words to the common vocabulary.

He defines the technical word as a word having a limited usage and meaning, and on this basis shows how in the various stages of growth of the U. S. have been added words of people. For instance the word **train** before the introduction of steam locomotion meant simply the retinue of following of a prince or royal personage. Today it has almost lost this meaning. And, he further states, when the invention that popularized the word disappears from our world, the word will disappear with the men who used it.

The history of a nation and the strongest influence upon it may almost be deduced from the technical words which enter its common speech, Prof. Cagg says.

The technical word has been used by poets and novelists very effectively, not for precision, however, as it commonly is, but for setting.

Prof. Cagg presented a paper on this research at the Academy of Science last month. It represents about 10 years scattered reading and much original thought.

M.S.M.

A. W. "Spooft" Walker '24, was elected first vice-president of the Mid-Continent Section of the Petroleum Division of the A. I. M. E. in Tulsa. Thomas C. Frick, who attended MSM in 1929, was elected secretary-treasurer. Frick is teaching in the University at Tulsa.

Prof. C. Thomas Delivers Paper Before Science Group In Washington

The American Physical Society met in Washington, D. C. at the National Bureau of Standards and the National Academy of Sciences the latter part of April. Professor C. D. Thomas of the Physics Department of M. S. M. delivered a paper before the Academy of Science on "The Atomic Distribution in Liquid Potassium at 70 degree C and at 395C." Professor Thomas has done extensive research in this field and is collecting data and material for his doctoral thesis. The abstract of Professor Thomas' paper is as follows:

X-ray diffraction patterns of liquid potassium at temperatures of 70 degree C, 200 degree C, 295 degree C, and 395 degree C have been obtained photographically in a camera of 8.85 cm radius. Mo Ka radiation monochromated by crystal reflection was used and exposures of 30 to 60 hours were required for obtaining suitable patterns. Thin Pyrex tubes about 1.5 mm in diameter were used and for the lower temperature runs sufficiently thin tubes could be used so that the glass correction was almost negligible. At the higher temperatures disintegration of the tubes required the use of thicker walls and for these patterns an appreciable glass correction was made. After making further corrections for absorption, polarization and incoherent radiation, the final intensity curve was obtained. For the 70 degree C curve three maxima were observed, the position of the main one being at a scattering angle of 10 degree 36'. The curve for 395 degree C was similar to this except that the peaks were washed out relative to the background and shifted to

Schedule For Final Exams Announced

Monday, May 23

8:00 to 11:00
Course and Rooms
1 and 3bs, 103 Chem.
100e, 104-110 Nor.
421, 306 Nor.
423 300b Nor.
660, 10 Parker
1:00 to 4:00
3a, 103 Chem.
100c, 103-110 Nor.
400, 306 Nor.
401c, 300b-304 Nor.
513a, 203 Nor.
1204, N. W. Exp. Sta.

Wednesday, May 25

8:00 to 11:00
7, 103 Chem.
107, 104 Nor.
512, 204-203-206 Nor.
1302, 4 Parker
M2, All Math. Rooms
1:00 to 4:00
9, 109 Chem.
13, 109 Chem.
100ad, 104-110 Nor.
401b, 204-300b-304-306 Nor.
651a, 2-10 Parker
801, 227 Met.

Thursday, May 26

8:00 to 11:00
635, 2nd Fl. Mech. Hall
All Rooms
M4, 103 Chem.
1:00 to 4:00
1002, 101-104-110-204 Nor.
1372, 4 Parker

Friday, May 27

8:00 to 11:00
108, 108 Nor.
402, 300b-304-306 Nor.
513b, 203 Nor.
1000, 104 Nor.
1:00 to 4:00
401a, 300b-304-306 Nor.
602, 203b Mech.
603, 204-206-210-211 Mech.

Saturday, May 28

8:00 to 11:00
504, 202 Nor.
651b, 2 Parker

Special Rooms

520, Wed., 8:00-110 Nor.
526, Wed. 11:00-110 Nor.
1501, Wed. 10:00-110 Nor.
1531, Wed. 9:00-101 Nor.
Report Conflicts to the registrar's office at once.

M.S.M.

MINERS WIN FIRST M. I. A. A. TITLE

Continued from page one

was very slow. In addition the meet was held under floodlights, and the rain was followed by cold winds.

Armin Tucker went across the finish line fourth in the mile run, while Norman Tucker took third in the two-mile run. Marion Donald of Springfield won both these events.

Otis Taylor took fourth in the 100-yard dash and third in the 220-yard dash, to give the Miners three markers, while Corneau placed fourth in the low hurdles. Carl Lintner was responsible for the other half-point, as he tied for fourth in the pole vault.

The Cape Teachers were winners for the fourth consecutive time, acquiring 64 points, while Springfield was second with 43. Maryville was third with 20, Kirksville fourth with 19, and Warrensburg last with 14½.

Bill McLane, ace Cape hurdler, was high point man for the meet

slightly smaller angles, the scattering angle for the main peak being 10 degree 16'. A Fourier analysis after the method of Debye and Manke gave the atomic distributions at the two temperatures. The first peak in this curve for 70 degree C is at 4.64 Å and a second one appears at about 9.0 Å but after this the distribution is nearly random. The corresponding peaks for 395 degree C are approximately at 4.8 Å and 9.2 Å, respectively.

Capt. Hodge To Be Transferred To Panama Sept. 1 To Supervise Mapping of the Isthmus

Four-Year Assignment at M. S. M. Terminates June 30

Capt. W. W. Hodge recently received orders from the War Department transferring him to duty with the 11th Engineer's Corps in Panama. His assignment of four years as Assistant Professor of Military Science and Tactics with the local R. O. T. C. unit will terminate on June 30.

He plans to sail from New York for Corozal, Panama on Sept. 1st. There he will be in charge of a company engaged in mapping the jungles of the Isthmus.

While here, Capt. Hodge has vented his tremendous energy in many different ways. Besides his regular duties with the Military Dept., he has instituted a two-hour course in Aerial Photography, received a B. S. Degree in Mathematics from West Point in 1937, and has made two trips to Mexico.

His other extra activities include research in aerial mapping and color photography, an article on

the cost of automobile transportation in the March "Consumer's Digest," and a lecture on the General Lectures Series.

Previous to his Rolla assignment, the Captain served two years with the Alaska Road Commission in Alaska, three years mapping on the Mexican Boarder, and a period at Ft. McIntosh, Texas.

The Captain's military career began with the Air Corps at Brook's Field, Texas; but due to his uncanny ability to make perfect 3-point landings 20 feet above the ground, he was promoted to the Engineer's Corps.

He became a proud father in April when his wife presented him a lively blue-eyed baby boy. The little one was immediately nicknamed "Butch." "Butch" is planning to follow in the footsteps of his father and enter West Point in 1956.

The Captain likes fried chicken and hates spinach. Despite his refusal to follow Popeye's diet, his gravitational constant has increased since his encampment here.

with firsts in both hurdles and the broad jump, and a second in the 100-yard dash. Donald of Springfield was second with firsts in the two-mile, mile and half-mile.

The Summaries

Javelin—Won by Morrow, Miners; second, Goslee, Maryville; third, Brill, Springfield; fourth, Teegarden, Warrensburg. Distance 174 feet, 3 inches.

Discus—Won by Paisley, Cape Girardeau; second, Smith, Springfield; third, Teegarden, Warrensburg; fourth, Goslee, Maryville. Distance, 134 feet, 5 inches.

Shot put—Won by Richmond, Cape Girardeau; second, Brinkley, Cape Girardeau; third, Teegarden, Warrensburg; fourth, Carr, Warrensburg. Distance, 44 feet, 3½ inches.

Mile run—Won by Donald, Springfield; Bench, Springfield, second; Mudd, Maryville, third; A. Tucker, Miners, fourth. Time 4:39.6.

440-yard dash—Won by Kirm, Cape Girardeau; Keith, Springfield, second; Reital, Maryville, third; Kiebone, Cape Girardeau, fourth. Time :51.8.

100-yard dash—Won by Lammers, Kirksville; McLane, Cape Girardeau, second; Bapst, Warrensburg, third; Taylor, Miners, fourth. Time :10.

880-yard run—Won by Donald, Springfield; Keith, Springfield, second; Mudd, Maryville, third; Rice, Warrensburg, fourth. Time 2:05.

Half-mile relay—Won by Cape Girardeau (McLane, Norman, Kiebone and Kirm); second, Springfield; Kirksville, third; Maryville, fourth. Time 1:33.6.

Broad jump—Won by McLane, Cape Girardeau; Gidding, Cape Girardeau, second; White, Warrensburg, third; Curtiss, Maryville, fourth. Distance 22 feet, 5½ inches.

Pole vault—Hardcastle, Cape Girardeau, and Darr, Maryville, tied for first and second; Baker, Springfield, third; Wakeman, Warrensburg and Lintner, Miners, tied for fourth. Height 11 feet, ¾ inch.

Two-mile run—Won by Donald, Springfield; Bench, Springfield, second; N. Tucker, Miners, third; Nelmark, Kirksville, fourth. Time 10:24.25.

High jump—Won by Goddard, Cape Girardeau; Jackson, Miners, second; Cody, Springfield, Urick, Maryville, and Rice, Cape Girardeau, tied for third and fourth. Height 5 feet, 8 inches.

Mile relay—Won by Cape Girardeau, (Kiebone, Norman, Bell, and

Dean And Gill Guests of Los Angeles Alumni

The Los Angeles Section of the M. S. M. Alumni Association met on March 23rd with Reginald S. Dean, '15, and James P. Gill, '18, as guests of honor. These two alumni both addressed the National Metal Congress, whose 1938 Western Convention was held in Los Angeles.

Alumni who attended the banquet at Nikabob Cafe were: S. Paul Lindau, '11, H. G. Hubbard '23, J. P. Gill '18, R. S. Dean '15, L. S. Cope- lin '13, S. E. Hollister '13, A. B. Harrington, ex-'17, J. J. Shipley '17, J. T. (Cy) Young, ex-'17, H. E. Spickard, ex-'19, W. E. Donaldson '31, George H. Pratt, ex-'13, C. D. Webb, ex-'06, W. Scott Boyce (former instructor in Economics), W. C. Hogoboom '14, Jos. B. Duga '19, Chas. B. Neil, ex-'25, Arch W. Naylor, Jr., '24, T. G. MacCarthy (former instructor in C. E.), V. A. Doster '26, R. L. Massey, ex-'19, and H. F. Valentine '23.

The meeting proved very successful with interesting talks being given Dean and Gill.

M.S.M.

ALUMNI NEWS

F. P. Kohlbray '22, president of the Airtherm Manufacturing Company, 1474 South Vandeventer Ave., St. Louis, Mo., was a campus visitor in April. The company which "Dutch" heads handles unit heaters of all types, ventilating, drying, blow pipe apparatus, and metal products.

Barney Nudelmann '21, General Agent, Connecticut Mutual Life Insurance Company of Albany, New York, spent the week of April 12th on the campus bringing to the attention of the seniors the advantages of life insurance.

Kirm; Kirksville, second; Warrensburg, third; Caryville, fourth. Time—3:51.

120-yard high hurdles—Won by McLane, Cape Girardeau; Schwengle, Kirksville, second; Ostrus, Maryville, Kirksville, second; Octurus, Maryville, third; Norman, Cape Girardeau, fourth. Time :16.1.

220-yard dash—Won by Bass, Springfield; Lammers, Kirksville, second; Taylor, Miners, third; Bapst, Warrensburg, fourth. Time :22.

220-yard low hurdles— Won by McLane, Cape Girardeau; Norman, Cape Girardeau, second; Schwengle Kirksville, third; Corneau, Miners, fourth. Time :25.7.

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INTRAMURALS

BY ROBERT KENNEDY

Softball

FRESHMEN TAKE FIRST GAME OF FINALS, 6 TO 0

In the first game of the finals between the Freshmen and the Juniors, the Freshmen won easily from the Juniors by a score of 6 to 0. With Nickola, Nesley, and Hacker hitting home runs for the Freshmen, and with Hessman, the Freshmen's pitcher, allowing only one hit; the Freshmen had little trouble in taking their first game in the final league playoff.

BOX SCORE

Freshmen					
Player & Position	AB	R	H	PO	E
Nickola, sc	4	1	1	1	0
Andrea, rf	2	0	0	0	0
Nesley, ss	3	2	3	4	0
Domjanovich, lf	3	0	1	1	0
Stephens, lb	3	1	0	0	0
Rogers, 2b	3	1	1	0	0
Bennetsen, c	3	0	0	0	0
Hacker, 3b	2	1	1	0	0
*Boyd, rf	1	0	1	0	0
Hessman, p	3	0	1	0	0
Total	27	6	9	0	0

Juniors					
Player & Position	AB	R	H	PO	E
Pitts, 3b	2	0	0	2	0
Clapp, ss	3	0	0	1	1
Tuckett, lf	2	0	0	1	0
Stojeba, c	2	0	0	1	0
Wilson, sc	3	0	0	1	0
Morelan, lb	2	0	0	1	0
Donaldson, cf	2	0	1	1	0
Sears, rf	2	0	0	1	0
Morrow, 2b	2	0	0	3	1

Bullock, p 2 0 0 0 0
 Total 22 0 1 2
Summaries
 Runs batted in; 1 by Nesley, 2 by Hacker, Freshmen.
 2-base hits; Hesley, Boyd, Rogers, Hessman, for Freshmen.
 Home Runs; Nickola, Nesley, Hacker, Freshmen.
 Batteries; For Freshmen, Hessman and Bennetsen. For Juniors, Bullock and Stojeba.
 Struck out by Hessman-14, by Bullock-1.
 Bases on balls off Hesman-3, off Bullock-2.
 Hits off Hessman-1, off Bullock-7.

Tennis

Doubles

Kappa Sigma beat the Kappa Alpha.
 Sophomores beat the Seniors.

Singles

No new games played.
 Proctor beat Poutler.
 Proctor beat Allen.
 Allen beat Baumstark.
 Leber beat Prough.
 Weber beat Reike.
 —M.S.M.—

HUMOR

Before I heard the doctor tell
 The danger of a kiss,
 I had considered kissing you
 The nearest thing to bliss,
 But now I know Biology
 And sit alone and moan—
 Six million mad bacteria—
 And I thought we were alone!

FACULTY FUNSTERS



It's Professor Martha Raye, head of the Department of Psychology, and Professor Ben Blue, Director of Physical Education, taking time off between classes for a little truckin' in this scene from the new Burns and Allen comedy, "College Swing." With Bohe Hope also cast, at the Rollamo Theatre Sunday and Monday, May 22-23.

Wonderings of a Freshman's Mind

G. N. Frosh

Well, you have to hand it to this fello Carlton or whoever it is what superintends the bildin they are diggin the hole for down by the tennes cort, on acc't of the WPA wurkers had dug so much durt out of the hole the uther day that they had run out of anyplase to put it. This Corltun or sumbody told thin to dig a hole and berry the durt. Well they dug a hole to berry it in, and then sumbady ast Carlton what they was goin to do with the durt what they had tooken out of the hole they had dug to berry the uther durt in. He hadn't thot of that so he went up and had a conference with the uther civil profs and they figgered out a very clevir solushun. They sed to just dig the hole twict as deep and then there wood be rume in it for all the durt. Warm wether is hear and the Sig Manures have bin gittin reddy for it, on acct of they are keepin a beer keg in the basement connected to there water pipes. You mite think it wood be a bit foamy takin a bath in beer, but I here they don't ever take any baths so it don't interfeare none to have beer in the water pipes. They have also planted a lot of pretzel bushes in there back yard. I hate to write about the Sig Manures so much but then they are the only fraternity it is safe to rite about, on acc't of if I wrote stuf like this about any uther fraternity they wood beet me up.

I was talkin to another freshman the uther day and he sed to me why do they call all us fellos Minors aint none of us over 21 and I sed maybe they git it from the name Mo. Scol of Mines and he sed well aint that funny, I thot I was goin to Springfield Teachers Colege. That aint so bad for a freshman, becaus sum of those fellos what are graduatin aint so smart as they think they are, on acct of I herd that a fello what graduated last year thot he was a Electrical Eng. until he lookt on his diploma and it sed he was a civil.

Madam Cease took an ofal beatin in that personel report what we all made out. It is to bad that a nise young lady what is tryin so hard to give some ignerant engineers a litel culture should be treeted so bad. I hate to write sumthin like that but I need the grade points. The Madam nos I rite this colum on acct of after tryin to reed one of my theems she told me that I must rite it on acc't of there cood-n't be too freshmen's who could spel so bad.

—M.S.M.—

Hospital News

An accident case heads the hospital list this week. Last Sunday morning Bryan Buchanan shot a 22 rifle against a stone in such a way that the lead bullet broke into several pieces and rebounded, striking him in the knees. Dr. Fiend removed the pieces of lead from Bryan's knees. He will be kept in the hospital for a few days.

The second and last student on the hospital list is John Kiser, who spent a few days in the hospital with an infection in a foot.

YOU KNOW THEM TOO

By W. J. Carr

When the Student Council published the results of the recent student balloting on the Profs, the name of Rex Williams was down near the bottom of the alphabetic al list; but when the averages were figured, his was found to be the highest in the entire group. Of all the profs. on the faculty he has been judged by the students as having the highest rating when initiative, teaching ability, fairness and energy in his classes have all been considered.



Having graduated from M. S. M. in 1931, Rex, as Assistant Prof. in Mechanics has been quick to build up his imposing reputation. Brilliant as a scholar, he gave warning of his coming success when he graduated as valedictorian from the Rolla High School. Four years later he emerged from the School of Mines with a degree in Metallurgy, again on top of his class of 85.

Paradoxically enough Williams' bad fortune of several years ago turned out to be the biggest break he has had during his lifetime. During the depression, the appropriation for the School of Mines went so low that the director was forced to cut Rex's pay and put him on half-time job as instructor. Having nothing to do during the rest of his time, Rex became interested in looking over some of the old abandoned mines around the vicinity of Rolla. He took tests on one iron mine, which had not been worked for about 60 years, and found it to be high in pyrite content. Operations were started again promptly and the ore lived up to expectation. The mine has been operating ever since.

As a member of the St. Pat's Board of Trustee's Prof. Williams

Prof: You can not go to sleep in my class.

Miner: I could if you didn't talk so loud.

"Well, Doc, you sure kept your promise when you said you'd have me walking again in a month."

"Well, well, that's fine."

"Yes, I had to sell my car when I got your bill."

—Lookout

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ROLLA DISTRICT

has lately seen to it that things run smoothly at St. Pat's. He is frequently seen as a chaperon for school dances. Naturally, he belongs to all the societies promoting scholarship, being a member of Theta Tau, Tau Beta Pi, and Phi Kappa Phi. During his school years he was president of the Lambda Chi Alpha house. Other degrees he has obtained are a B. S. in Engineering Mechanics at Wisconsin University in 1936.

PROGRAM

ROLLAMO THEATRE

Sat. and Sun. Matinees 1:30 & 3:30
 Matinee Every Tuesday 2:30

Selected Short Subjects on Every Program

Friday and Saturday, May 20 - 21

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2 Matinees Sunday, 1:30 and 3:30

Admission 10c and 30c

Nights 7 & 9 Adm. 10 and 36c

Tuesday, May 24, Matinee and Nite

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Wed. and Thursday, May 25 & 26



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"2 Boobs In A Baloon" and News

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SPORTS PAGE

At The M. I. A. A. Meet

With B. C. Compton

The Miners, in four cars, left for Maryville on Thursday, arriving at the home of the Bearcats that night after a drive of 350 miles. Because all the hotels were full, the Miners were forced to stay in a Tourist Camp on the outskirts of town.

Preliminaries were held during the morning in the dashes and the hurdles, while the finals were run off in the shot put, javelin, and discus. Morrow's first throw in javelin was good enough to win, and the rest of the contestants spent the morning trying to top it. Morrow put three throws between the winning mark and the second man's best mark. However he could not exceed his own throw.

Harley Ladd barely missed qualifying in the century, but was nosed out in the last step. Mitsch finally beat the conference championship hurdler, but it was only in the qualifying heat. Only three men were entered, and all three were eligible for the finals, so the race was a farce. McLane, who won both hurdles in the finals, skipped along leisurely and high jumped the hurdles. Mitsch beat him to the finish by about ten steps.

The sun beat down on the field during the morning, and conditions were ideal for track, tennis and golf.

The Miners tennis team of Harsell and McKee had the bad luck to draw Springfield in the first round of the singles, and were eliminated by the eventual champions. This is the same situation that they found themselves in last year at Cape Girardeau.

Harsell drew Miller, the Bear Number Two man, and went down. 6-4, 6-3. McKee took on Perry, who is probably the best player in the intercollegiate ranks of the state, and lost 6-0, 6-1. Both men put up darn good games, and would probably have won at least the first round if their opponents had been anyone but Springfield.

The doubles combination trimmed Warrensburg in the first round and then lost to Cape in the second. The Indians then lost to Perry and Miller. For the singles title, Perry trimmed his own teammate, Miller.

The Country Club golf course at Maryville is a nine-hole affair, par 36, with a artificial lake that has to be crossed twice. Watts took a 40 for the first round, mostly because of a seven Hole 2. Being misinformed he drove over the green into a pasture. However on the second round he went down to a 35, or one under par.

The third round was played after lunch, and apparently Watts had trouble in getting back into form for his score was again 40. The last round, which was high for most of the competitors, was 41 for the champion. A missed putt on the last hole prevented a 40.

Watts was nine strokes better than Cruishank of Kirksville who finished second, while the total Miner score was six strokes better than the Kirksville final count.

Clayton had the honor of playing on the School of Mines' first M. I. A. A. Championship team, after competing four years in basketball and golf. Bud took a 44 on the first round, a 41 on the second, and at lunch was one stroke behind the second place man. During the afternoon he came through with a pair of 44's, which is excellent golf for a player who has not played 36 holes in one day all season and who is still rather weak from a serious illness.

As Clayton was finishing the last hole it started to rain, and from then to 7 p. m. a steady fall prevented the Miners from leaving the tourist camp. At 7, however, the rain stopped and officials decided to hold the meet. All the ceremonies were done away with, and slickers took the place of brightly colored outfits among the spectators.

A slight misunderstanding took place over the placing of Taylor in the 100-yard dash, but officials finally awarded him fourth. McLane was defeated in the century by Lammers of Kirksville mainly because McLane was in one of the muddy lanes, while Lammers' lane was not so sticky.

The infield of the track was covered by an inch of water, while the track itself was virtually mud. A slight rain fell during the meet and it was much colder than it gets in this part of the state.

Fort was disqualified in the half-mile when he went between two Warrensburg men. He afterwards explained that he had plenty of room to go between but when he pulled up, both men crowded in and tried to squeeze him out.

Jackson explained that he believed that he was beaten by Goddard in the high jump because of the different methods of jumping of the two men. He thought that the muddy takeoff hindered him.

MINERS OVERWHELM BILLIKINS 77½ TO 53½

SPECIAL NOTICE

Unless the remaining horseshoe and tennis matches are played off on or before the dates listed below, all matches will be forfeited and the points divided. If one man shows up to play and his opponent does not, this man wins the championship.

HORSE SHOES

Singles

Wednesday, May 18

4:30—Koziatek vs Braun.

5:15—Payne vs Mackey.

Doubles

Thursday, May 19

4:30—Juniors vs Kappa Sigma

5:15—Finals in Singles.

Friday, May 20

4:30—Sophomores vs winners of Kappa Sigma-Juniors.

TENNIS

Wednesday, May 18

4:30—Proctor vs Allen

Weber vs Leber.

Thursday, May 19

4:30—Finals.

—M.S.M.—

more than it did the Cape star.

Donald and Bench of Springfield showed the results of training all-year round, and after the meet was over Fort and the Tuckers announced their intention of continuing throughout the summer and fall.

Both Tuckers put up nice races but were just outrun by the Springfield stars. And the worst part—both Springfield men will be back next year.

We like the way Corneau takes the low hurdles and predict that he will win points next year in the conference.

Next spring the conference meet will be held at Rolla, and several improvements must be made to the local plant before that time. The new straightway must be finished.

"PKA DREAM"



Florence George's blonde beauty so captivated the members of Pi Kappa Alpha fraternity that they paid her their highest tribute and elected her the official "Pi Kappa Alpha Dream Girl." Miss George makes her film debut in the new Burns and Allen comedy, "College Swing," which will be seen Sunday and Monday, May 22-23, at the Rollamo Theatre.

Gain First Track Win Last Tuesday Over St. Louis U. In Three Years; Taylor and Ladd High Men

In a surprise spurt, the Miners overwhelmed the St. Louis Billikins by a score of 77½ to 53½ on the Rolla track last Tuesday. The score stayed about even up to the last events, when Mitsch and Corneau sped in first and second in the 220 low hurdles to put the Miners out in front for good.

Otis Taylor stepped out in front for the first time this year to take firsts in the 100, 220, and broad jump along with a third in the shot, to be high man of the day with 16 points. Partner sprinter Ladd was next high man with 11½ points, with a first in the shot, second in the 100 and high jump and a tie for third in the 220. With the absence of Machens, Morrow limbered up his arm to toss the javelin over 170 feet, but couldn't beat Dennie Cochran who tossed it 178 feet. In the mile relay, the St. Louis team composed of Hagen, Mera, Malloy and Huger, clipped 1.7 seconds from the existing record to set a new one at 3:28.1. This was the first time the Miners have won from St. Louis in the three years of meeting.

Mile Run—Won by Fort, Miners; A. Tucker, Miners, second; Kehoe, St. Louis, third. Time—4:46.3.

Shot Put—Won by Ladd, Miners; Vollmer, St. Louis, second; Taylor, Miners, third. Distance—40 feet.

the jumping pits changed, new tennis courts should be built, and retaining walls put up at several places.

Among the men who accompanied the team were Charlie Tucker, the Miners' No. 1 fan, and former Capt. Buran Brown. On the absent list were Capt. Eddie Ballman, who is on a senior trip, and George Machens, the Miners' ace javelin thrower, who is out with a broken kneecap.

—M. S. M.—

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440-Yard Run—Won by Huger, St. Louis, second; Barrett, Miners, third. Time—:51.9.

100-Yard Dash—Won by Taylor, Miners; Ladd, Miners, second; Wolken, St. Louis, third. Time—:10.2.

Pole Vault—Won by Lintner, Miners; Romine, Miners, and Wallisenski, St. Louis, tied for second. Height—11 feet.

120-Yard High Hurdles—Won by Eberle, St. Louis; Branson, St. Louis, second; Mitsch, Miners, third. Time—:15.8.

880-Yard Run—Won by Malloy, St. Louis; Fort, Miners, second; Pohlman, Miners, third. Time—2:02.5.

220-Yard Dash—Won by Taylor, Miners; Hagan, St. Louis, second; Ladd, Miners, and Mera, St. Louis, tied for third. Time—:23.2.

Two-Mile Run—N. Tucker, and A. Tucker, Miners, tied for first; Kehoe, St. Louis, third. Time—11:09.4.

Discus—Won by Strawhun, Miners; Hartle, St. Louis, second; Gorman, St. Louis, third. Distance—125 feet 3 inches.

High Jump—Won by Jackson, Miners; Ladd, Miners, second; Gorman, St. Louis, third. Height—5 feet 10 inches.

Low Hurdles—Won by Mitsch, Miners; Corneau, Miners, second; Eberle, St. Louis, third. Time—:26.6.

Javelin—Won by Cochran, St. Louis; Morrow, Miners, second; Hartle, St. Louis, third. Distance—178 feet 3 inches.

Mile Relay—Won by St. Louis, (Hagen, Mera, Malloy and Huger). Time—3:28.1.

Broad Jump—Won by Taylor, Miners; Eberle, St. Louis, second; Jackson, Miners, third. Distance—20 feet 9 inches.

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**JAENECKE AWARDED
A. S. M. E. MEMBERSHIP**

Continued from page one.

Ellis.

This being the last meeting of the year, Chairman Rhodes requested that the members be on the lookout this summer for speakers and any items of interest for next year. Dr. Miles, honorary chairman, reminded the chapter of its outstanding event on next year's program, being hosts to all of the chapters in six states at St. Louis.

—M.S.M.—

**FACULTY ADDRESSED BY
PROF. ALLEN ON A.A.U.P.**

Continued from page one.

L. Johnson, who has one of the longest memberships in the association, presided over the gathering.

Additional functions of the A. A. U. P. are: the creation of pensions for retiring professors, the assurance of freedom of speech for the professors, and the assurance of reasonable salaries for college faculties.

Out of Forty-five thousand eligibles, fifteen thousand are members of the A. A. U. P. Three hundred and twenty-eight teach at Missouri Colleges.

—M.S.M.—

**NAVAJO EXPEDITION
OPEN TO M. S. M. MEN**

Continued from page one.

try of mesas, canyons, and deserts, but have as yet covered only a small portion of the area. About the middle of June we are going back to take up the task of pushing out as far as possible into the 2000 or more square miles that lie beyond our present horizons. Engineers will map intricately carved canyons, and will record the location of cliff dwellings and other evidence of pre-historic peoples reported by the archaeological field parties. Extensive excavations will be completed in the Tegei Canyon. The botanists will concentrate upon a study of the richly forested summit of Navajo Mountain. Surrounded on all sides by hundreds of miles of desert, this great mountain mass rises to such a height that its summit has a climate like that of Canada two thousand miles to the north. We hope to find a unique fauna and flora thus 'marooned' there thru countless ages."

"Biologists under the leadership of Dr. Angus Woodbury, of the University of Utah, will seek rare mammals, birds, reptiles, and fish in the deep canyons of the San Juan and Colorado Rivers. Seven small boats are being constructed for the 200 mile voyage of the venturesome members of this small field party."

"Geologists will excavate in a fossil-bearing cave that has already yielded more than 100,000 specimens, and will make field studies that may shed light on the origin of the Navajo sandstone."

"Other members of the staff will be Professor Ralph L. Beals, Department of Anthropology, University of California; Lyndon L. Hargrave of the Museum of Northern Arizona, Archaeologist; Professor George Brainerd, Ohio State University; John Wetherill, Custodian of Navajo National Monument for the National Park Service, will be Associate Field Director."

The Expedition operates under a board of trustees, as a cooperative project, each man sharing in

the work, and the field expenses. The two men will be chosen by Dr. Winning some time during the next two weeks; meanwhile he will

receive applications sent to him at the Explorers Club, New York City. Applications may also be sent to Professor Fay-Cooper Cole, Un-

iversity of Chicago, or to Professor Ralph L. Beals, University of California, Los Angeles. The remainder of the party will be made

up of men from Princeton, Harvard, Chicago, Stanford, the University of California, and several of the large universities.

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Smokers the world over know that *They Satisfy* is the signal for more smoking pleasure.

Chesterfields are made of mild ripe tobaccos—home-grown and aromatic Turkish—and pure cigarette paper... the best ingredients a cigarette can have.

With Chesterfields you are always sure of refreshing mildness, more pleasing aroma and better taste.

**...giving MORE PLEASURE
to a whole world of smokers**

Weekly Radio Features of the PLEASURE cigarette

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