



21 Sep 1962

The Missouri Miner, September 21, 1962

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Dr. Louis Harold Lund Prominent Physics Prof.

To continue in its series saluting faculty members, the Miner this week presents Louis Harold Lund, noted theoretical physicist who is a Professor in the Physics Department.

Dr. Lund was born in Jefferson City, Missouri and lived there for ten years. He then moved to Salina, Kansas where he graduated from high school and then received an A.B. Degree in 1940 from Kansas Wesleyan. He followed this up by going to the University of Missouri and receiving his M.A. Degree in 1943. "Uncle Sam" employed him the next three years during the war at the Naval Research Laboratory in Indianapolis, Indiana. He worked there in the aircraft flyer control department and performed work with such things as guidance systems. After the war, he continued his education at Missouri University and received his doctorate. Professor Lund came to MSM in 1948 and aided in building the Physics Department to the present status it enjoys today.

While at MSM, he has taught many of the courses offered in the Department of Physics and is presently teaching a graduate course in quantum mechanics. Much of Dr. Lund's time is involved with research, and he is currently working with scattering

problems and liquid structure. To further his work, he has been awarded a research grant from the National Research Foundation. He has gained recognition as a result of his research activities through numerous articles of his published in professional journals. His latest was printed in the "Journal of Chemistry & Physics" and was titled "X-Ray Scattering by Cell Model Liquid." Along with all of these activities, Professor Lund is also directing three PhD candidates in their research projects.

To broaden his experience, Dr. Lund has worked two summers at the Oak Ridge Laboratories as a consultant in the Solid State Division.

Professor Lund's accomplishments have not gone unnoticed as he has been chosen for listing in Who's Who in the Midwest, Who's Who in American Education, American Men of Science, and Sigma Xi.

Apart from the classroom and research laboratory, Dr. Lund's interests include sports, especially tennis and table tennis, and his 3.4 Jaguar. He is married to the former Marian Macy and they have two sons, Karl, 18, and Michael, 17. Karl is a freshman at MSM and is majoring in Physics. Mike is a senior at Rolla High School.

Pi. K. A. Receives National Recognition

The past year has been a great one indeed for Alpha Kappa chapter of Pi Kappa Alpha Fraternity located at MSM. This year the Pi KA's here at MSM were voted the outstanding chapter in their national social fraternity. This is indeed a great honor because in doing this they were in competition with all 118 of the other Pi KA chapters in the United States. This award, the Fymthe Award, is in the form of a traveling trophy. The chapter at MSM has won this award three times in the past twelve years.

In particular, this member, Bill Hallerberg, was awarded the Powers Award by the national Pi KA convention. This award is the one every Pi KA dreams of receiving, "The Outstanding Undergraduate PiKA of the Year." This award is also a traveling trophy. The basis for this award included several things. Probably the greatest single factor was a great honor earned by Bill last year. He was asked to speak at the dedication of an engineering center at Nw York. He spoke on the same program as did former President Her-



Pi KA's National Awards.

The local Pi KA chapter was named recipient of this great honor on the basis of many outstanding qualities. Among these are participation in campus activities and intramural sports. The fine organization of business finances, etc., also had a great deal to do with the selection of Alpha Kappa chapter.

Another great honor was bestowed upon the Pi KA's the past year and to one of their members

bert Hoover, the feature speaker for the occasion. This was truly a great honor for Mr. Hallerberg as well as for the Missouri School of Mines.

Among other of Bill's many achievements which helped him to be selected for the Powers Award were being named to "Who's Who in American Colleges," business Mgr., Rollamo, "IFC Man of the Year," as well as many offices in

(Continued on Page 5)

The Missouri MINER

MISSOURI SCHOOL OF MINES AND METALLURGY

VOLUME 49

FRIDAY, SEPTEMBER 21, 1962

NUMBER 3

M.S.M. Increases Enrollment, Now Ranks in Top Ten in Size

The Missouri School of Mines and Metallurgy has begun its 92nd year with the largest enrollment in the history of the institution, it was announced today by Dr. Curtis L. Wilson, Dean of the School. The increase in students at the School has been on both graduate and undergraduate levels. The School's increase on the undergraduate level represents an important factor as most of the nation's undergraduate schools of engineering have suffered heavy losses in enrollment over the past few years. However the Missouri School of Mines and Metallurgy has experienced a stable growth in undergraduate enrollment since 1954, and is now among the top 10 undergraduate engineering schools in size in the nation.

The School's 237 graduate students represent an increase to 500% of the 1954 graduate level enrollment. Of the graduate students the number enrolled on the Ph. D. level has grown eight-fold since that time. Much of the interest among students in graduate study at the School has been at-

tributed to the ever-expanding research activities that have been taking place at the School. The research activities at the School have been expanded and a much greater need for expansion is being felt because of the necessity for the School of Mines and Metallurgy and other comparable technological institutions to provide the research and new ideas necessary for advancement in those government and industrial agencies that depend on technology. Although the school has conducted research for these agencies in the past and is engaged in research at present, the potential of the School in this area is greater than for any other school of comparable size in the country. These research projects, sponsored by the agencies who will use the information developed, offer both faculty and graduate personnel working on the projects experience in the latest developments in the particular areas of inquiry.

The fall semester's enrollment of 3430 is more than 115 students larger than last year's previous all time high. Registrar Robert B. Lewis stated that he expected still more students to enroll in the course of the next few days.

The School ranked 11th in size nationally last year in schools of engineering according to statistics provided by the American Society for Engineering Education, and indications point to even higher standings this year and in years to come as the School's anticipated growth to 6000 undergraduate and 1000 graduate students by 1970 becomes more a reality. Of this anticipated figure more than 250

students are expected to be enrolled on the Ph. D. level.

The School also ranked 8th a year ago in the number of degrees awarded in undergraduate engineering. This national ranking was also compiled by the American Society for Engineering Education. However the School's significant growth in students in engineering studies has been matched by those students enrolled in the applied science degree programs, both on the undergraduate and graduate levels. The Departments of Chemistry, Physics, Geology, and Applied Mathematics have experienced growth in past years. These departments provide support for the engineering areas of the School and are an integral part of the educational processes of the institution. The entire engineering education program is dependent on the role of the applied sciences.

The School's present enrollment figure of 3430 includes 3388 men and 42 women, of which 44 are graduate students on the Ph. D. level, 193 on the master's level and 3193 are undergraduate students. Additional Ph. D. registrations are anticipated this week.

The electrical engineering department, in keeping with national statistics and in response to an increasing demand for electrical engineers in industry and research, attracted 777 students to remain the largest department on campus. Occupying a building next to the electrical engineering department, civil engineering had the next largest number with 692 students. The

(Continued on Page 5)

Scholarship Awarded

Among the number of MSM students receiving scholarships this year are: Jerome A. Denzel, receiving the A. P. Green Fire Brick Co. Scholarship; Gary D. Brunner, the Falkland H. Dearing Scholarship; George T. Newell and John F. Sharp, the Kennecott Copper Corp. Scholarship; Clifford D. Skouby, The Western Electric Co. Scholarship; Robert W. Meyer, James F. Wade, Richard L. Terry, and Wayne E. Blumenburg, the St. Joseph Lead Co. Scholarship; Jose Briceno, the Shell Scholarship; Arthur O. Martel, and James B. Robison, the Deister Concentrator Co. Scholarship; and Bernard C. Ebert, Clarence Ellabracht, Melvin L. Picker, and Orin A. Stemler, the Enoch R. Needles Scholarship.

NOTICE

BE SURE TO TURN IN
APPLICATIONS FOR
WHO'S WHO IN
AMERICAN COLLEGES

BY
WEDNESDAY, OCT. 3, 1962

TO
DESK AT STUDENT UNION

Washington U. Game, a Miner Tradition Since 1898

Since the year 1898 the Missouri Miners have been playing Washington University's Bears every year, except for several intermittent spans. The football tradition of our Miners really started though in 1914, when they were undefeated. They beat such schools as Mizzou and Washington U. That was the year the Miners buried Pittsburg, Kansas, 104 to 0. But of all the schools played by the Miners, Washington University remains as the school, the team, and the game to defeat and win. Why is this? What traditions make this one game so important?

One reason for its importance is the fact that we have played the Bears more times than any other team. Only a hundred miles separate the two schools and many St. Louisians go to both schools. Each school boasts it has the better engineering school. Of course, we know which one is better. Naturally, each has the best football team. The record of clashes

is somewhat one-sided, but over the last ten years it's been improving. Right now our record stands at about 8 wins, 31 losses, and one tie. The record covers through the Miners' power years, the Bears' big football school standing period, to the present day status of the two schools.

For a big game, it seems early in the year, but it's been played that way ever since its inception. No one really minds it anyway, it's a matter of tradition. Many students and as many of the Miner team as possible journey up to St. Louis for this game. Many Miner supporters are always on hand and really give the team an extra boost. Numerous parties and celebrations are held after the game that day and night to show that friendship between the two schools still exists.

The site of the game has always been Wash U. This again can be called tradition. But this is one tradition we'd like to see

(Continued on Page 5)

Miner Editorials

Missouri School of Mines is an excellent engineering college but its very existence is based upon falsehood — to be an engineer one must be isolated.

When the complaint that there is nothing to do but study, is raised by a student, it is met with, "if you had something else to do you probably wouldn't study." True, there are times when a person's studies would suffer from a dance or some other social event.

Although MSM is one of the best engineering colleges in the country it could learn a lesson from the other colleges that share the same distinction. More liberal, co-educational colleges, such as Purdue, can graduate engineers in a much less isolated environment and have them rank high in the profession. There, a student is always faced with choices which leave only the dedicated. As a freshman few students have the educational background to enable them to say they are "cut out" for a certain field. In a school where many fields of education are represented a student who has more liberal tastes may see them and depart from the technical education without an abrupt change in colleges. The engineer will be able to compare his profession with those of others and decide if he is truly interested in engineering. Also he can determine his position relative to the rest of the educated world.

The courses that the engineering departments of other and more liberal colleges offer are very similar to those offered here in both difficulty and number. Also the semester hours and grade point requirements are nearly the same. At these schools there are many more distractions than ever could be found here. Dances and parties are daily affairs and usually there is a girls' dorm only a few blocks away. In spite of these many pit-falls these universities are able to produce engineers on the same level as ours.

How can this be? Here a student must study because there is little else to do. A Miner makes no sacrifice other than his initial enrollment here, for there are no sacrifices to be made. Miners are engineers because they are attending an engineering college. The choice between studies and "the wild life" just doesn't exist so the Miner, while accepting his fate has no feeling of sacrifice or accomplishment.

The university educated engineer is an engineer all the way, and by choice. Every moment he is given a way out, a chance to evaluate his situation and either pursue some other endeavor or remain dedicated to engineering. He is fully aware of the ways of the world. The Miner, excepting a few individuals, knows little except the sterile, complex life of the engineering monk. How can he ever be sure that he really wants to be an engineer?

Once the sophomore year has been completed the Miner is "hooked." There is little chance for him to leave. More than half of his courses are non-transferable to any other curriculum. Also there is the omnipresent insecurity concerning the life which is not found here in Rolla. The students who are truly dissatisfied with their "existence" here at MSM should seriously investigate the life which would greet them at a university or a liberal arts college. These are the formative years of a person's life and should be used wisely.

—Guest Editorial by Jay Waring

Ralph E. Lee Elected to The Executive Board

Ralph E. Lee, Professor of Mathematics and Director of the Computer Center at the Missouri School of Mines and Metallurgy, has been elected to the Executive Board of the National Computer Users Organizational Pool. The national organization consists of the users from universities, industries, businesses, and government agencies, of the some 500 Royal Precision Digital Computers in the nation. The purpose of the 300 member group is to exchange information and computer programs, so that in the exchange information and computer programs, so that in the exchange of

ideas new uses made known to all users of the time saving machines.

Professor Lee, who has directed the Missouri School of Mines and Metallurgy's Computer Center since its establishment in March 1960, recently attended a meeting of the Executive Board of the Pool in Los Angeles on September 11, 12, and 13th. At this meeting plans for exchange of information and computer programs were outlined. The Missouri School of Mines and Metallurgy's Computer Center uses as one of its machines the Royal Precision Digital Computer.

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Col. Robert R. Hull Speaks to AIEEE-IRE Meet

Air Force Colonel Robert R. Hull, Acting Deputy for Ballistic Systems at the Air Force Missile Test Center at Patrick Air Force Base, was speaker to the more than 450 students who attended the Missouri School of Mines and Metallurgy's first student chapter meeting for the school year of the American Institute of Electrical Engineers—Institute of Radio Engineers. Colonel Hull, who is assigned to the 6555th Aerospace Test Wing, has been the Air Force Test Controller and Launch Director on many "firsts" in American missile and space program events. These include his participation as launch director for the first Atlas boosted satellite to enter orbit, the first 9000 mile ballistic missile flight, the first launching of a live primate into orbit, the first man sent in orbit, and the launch director for the first spacecraft lunar impact flight. Colonel Hull is connected with the Gemini space program being conducted at the Air Force Missile Testing Center, and has been at the center for the past five years. He has been launch director for some 45 launchings.

His September 12th speech to the student group, the largest in the nation, was held in the Missouri School of Mines and Metallurgy's Parker Hall Auditorium. The presentation by Colonel Hull

Professor Robert H. Nau Reports to Fort Wood

On June 2, Robert H. Nau, Professor of Electrical Engineering, reported to Ft. Leonard Wood for 15 days active duty training in one of his Primary Mobilization Occupational Specialties as Post Signal Officer. This was Colonel Nau's second tour of ADT at Fort Leonard Wood. The Signal Officer provides radio and telephone communications and repair, cryptographic service, photographic and identification card service, and films and film strips for the post and all surrounding installations. It is to be remembered that Ft. Wood is a fairly good sized city made up of approximately 26,000 troops most of whom are engaged in training.

On June 18, Professor Nau enrolled with 13 other professors from across the nation at the

included color films of missile launchings. After the program Colonel Hull answered questions for several hours both at the auditorium and later at an informal reception. Questions by the student group pertained to all phases of the missile program and the man in space program.

Colonel Hull pointed out that Patrick Air Force Base alone receives an average of 9000 requests for speakers per month, and that the Air Force is only able to supply a few of these speakers each month to professional groups.

Nuclear Engineering school at North Carolina State College Raleigh, North Carolina. The school was sponsored by the Atomic Energy Commission in conjunction with the American Society for Engineering Education. The school consisted of 8 weeks of intensive study. Specific courses taken by Professor Nau were Nuclear Physics, Reactor Kinetics, Advanced Partial Differential Equations, Health Physics, and

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THE MISSOURI MINER

MISSOURI SCHOOL OF MINES AND METALLURGY

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The Glee Club Invites All To Come to Their Rehearsals

The Glee Club, a campus wide singing group, invites all interested students to its rehearsals. Presently the group is preparing for a Parents' Day program.

The group sings all types of music, ranging from standard glee club music to major choral works. One of the years big events is a joint concert with the Lindenwood

College Choir, at Lindenwood, when "The Messiah" by Handel, is performed.

Other singing trips by the Glee Club are made to schools such as Stephens, in Columbia; and the group gives several performances here on campus during the year.

All students who are interested in vocal music are invited to join the Glee Club. Rehearsals are on Tuesday nights at 6:20 in the Band Building on State Street

Dr. Roger Nolte Attends Stanford Solid State Labs

Dr. Roger E. Nolte has returned to his duties as Chairman of the Electrical Engineering Department after a summer at Stanford University. He was granted a National Science Foundation Research Participation Fellowship and was associated with Dr. Pearson, the inventor of the solar battery, at Stanford's Solid State Laboratories. In addition to researching in the field of new semiconductor materials, Dr. Nolte obtained information which will be useful in the teaching of his graduate courses and in the establishing of a graduate semiconductor laboratory.

At the end of the summer Dr. Nolte attended WESCON, a large electronics show and conference which was held in Los Angeles, August 22-24, 1962.

The International Nickel Company Grants Scholarship

An undergraduate scholarship has been granted by The International Nickel Company, Inc., to the University of Missouri School of Mines and Metallurgy.

The scholarship will give preference to a student in metallurgical engineering and will cover tuition, fees and a living allowance of \$300. In addition, a grant of \$500 will be made annually to the department in which the student is enrolled.

A special committee of the faculty at the School of Mines and Metallurgy will select the recipient of the scholarship which will apply on a year to year basis for full four years.

The award is one of several granted to engineering schools by International Nickel as part of the Company's continuing program of aid to higher education in the United States.

Telstar, the world's first trans-Atlantic space satellite television relay, is sending scientific data back to earth in addition to amplifying and resending communications between Europe and the United States.

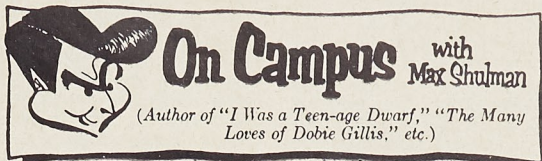
Dr. Roger Nolte Announces Additions

Dr. Roger E. Nolte, Chairman of the Electrical Engineering Department, announced the addition

of six new faculty members for the academic year.

Dr. J. Robert Betten, Richard P. Brueggeman, John F. Curtin, Charles A. Gross, Jack F. Morris, and Donald L. Willyard.

The Graduate Assistants for the 1962-63 school year will be: Larry Nelson, Donald Nelson, Vincent Pusateri, Thomas Van Doren, Terry Watson and Tuh-Kai Koo.



ANOTHER YEAR, ANOTHER DOLLAR

With today's entry I begin my ninth year of writing columns in your school newspaper for the makers of Marlboro Cigarettes.

Nine years, I believe you will agree, is a long time. In fact, it took only a little longer than nine years to dig the Suez Canal, and you know what a gigantic undertaking that was! To be sure, the work would have gone more rapidly had the shovel been invented at that time, but, as we all know, the shovel was not invented until 1946 by Walter R. Shovel of Cleveland, Ohio. Before Mr. Shovel's discovery in 1946, all digging was done with sugar tongs—a method unquestionably dainty but hardly what one would call rapid. There were, naturally, many efforts made to speed up digging before Mr. Shovel's breakthrough—notably an attempt in 1912 by the immortal Thomas Alva Edison to dig with the phonograph, but the only thing that happened was that he got his horn full of sand. This so depressed Mr. Edison that he fell into a fit of melancholy from which he did not emerge until two years later when his friend William Wordsworth, the eminent nature poet, cheered him up by imitating a duck for four and a half hours.

But I digress. For nine years, I say, I have been writing this column for the makers of Marlboro Cigarettes, and for nine years they have been paying me money. You are shocked. You think that anyone who has tasted Marlboro's unparalleled flavor, who has enjoyed Marlboro's filter, who has revelled in Marlboro's jolly red and white pack or box should be more than willing to write about Marlboro without a penny's compensation. You are wrong.

Compensation is the very foundation stone of the American Way of Life. Whether you love your work or hate it, our system absolutely requires that you be paid for it. For example, I have a friend named Rex Glebe, a veterinarian by profession, who simply adores to worm dogs. I mean you can call him up and say, "Hey, Rex, let's go bowl a few lines," or "Hey, Rex, let's go flatten some pennies on the railroad tracks," and he will always reply, "No, thanks. I better stay here in case somebody wants a dog wormed." I mean there is not one thing in the whole world you can name that Rex likes better than worming a dog. But even so, Rex always sends a bill for worming your dog because in his wisdom he knows that to do otherwise would be to rend, possibly irreparably, the fabric of democracy.



"I better stay in case somebody wants a dog wormed."

It's the same with me and Marlboro Cigarettes. I think Marlboro's flavor represents the pinnacle of the tobaccoist's art. I think Marlboro's filter represents the pinnacle of the filter-maker's art. I think Marlboro's pack and box represent the pinnacle of the packager's art. I think Marlboro is a pleasure and a treasure, and I fairly burst with pride that I have been chosen to speak for Marlboro on your campus. All the same, I want my money every week. And the makers of Marlboro understand this full well. They don't like it, but they understand it.

In the columns which follow this opening installment, I will turn the hot white light of truth on the pressing problems of campus life—the many and varied dilemmas which beset the undergraduate—burning questions like "Should Chaucer classrooms be converted to parking garages?" and "Should proctors be given a saliva test?" and "Should foreign exchange students be held for ransom?"

And in these columns, while grappling with the crises that vex campus America, I will make occasional brief mention of Marlboro Cigarettes. If I do not, the makers will not give me any money.

* * *

The makers of Marlboro will bring you this uncensored, free-style column 26 times throughout the school year. During this period it is not unlikely that Old Max will step on some toes—principally ours—but we think it's all in fun and we hope you will too.

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Wed., Thurs. Sept. 26-27
'A Raisin in the Sun'
Sidney Poitier & Claudia McNeil

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Saturday Continuous from 1 p. m.

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John Ireland & Jo Morrow
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'Congo Crossing'
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Sun., Mon., Tues. Sept. 23-25
Sunday Continuous from 1 p. m.
'Come September'
Rock Hudson & Gina Lollobrigida

—PLUS—
'Space Master X-7'
Bill Williams & Lyn Thomas

Wed., Thurs. Sept. 26-27
'Cash McCall'
James Garner & Natalie Wood

—PLUS—
'Hand of Death'
John Agar & Paula Raymond

ROLLA DRIVE IN SHOWS START AT 7 P. M.
Fri., Sat. Sept. 21-22

'Short Cut to Hell'
Robert Ivers & Georgann Johnson

—PLUS—
'These Thousand Hills'
Don Murray & Lee Remick

Sun., Mon. Sept. 23-24
'Swingin' Along'
Tommy Noonan & Barbara Eden

—PLUS—
'Flaming Frontier'
Bruce Bennett & Jim Davis

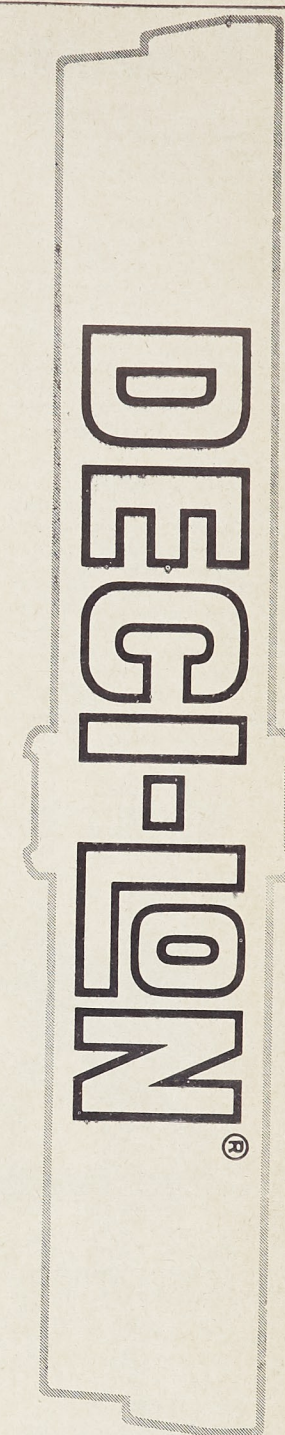
Tuesday Sept. 25
DOLLAR A CARLOAD
'Battle of the Coral Sea'

Cliff Robertson & Gia Scala
—PLUS—
'Chartreuse Caboose'
Molly Bee & Ben Cooper

Wed., Thurs. Sept. 26-27
'Edge of Eternity'
Cornel Wilde & Victoria Shaw

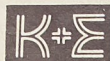
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Fraternities Pledge 227 Men

This week, 15 fraternities on the MSM campus reported a total of 227 new men as having begun fraternity life. Here are the new pledges:

ACACIA

Robert E. Lee, St. Joseph, Mo.; Jack M. Hopkins, Carthage, Mo.; Chester A. Henson, Poplar Bluff, Mo.; James D. Parmelee, Springfield, Mo.; Wallace E. Deshon, St. Joseph, Mo.; Frederick B. Rudolph, Amazonia, Mo.; Richard H. Hibdon, Webb City, Mo.; Albert B. Spencer, Webb City, Mo.; and F. Calvin Gonterman, Webb City, Mo.

BETA SIGMA PSI

Wayne Benitz, Affton, Mo.; James Blackwood, Murphysboro, Ill.; Gary Laneman, St. Louis, Mo.; Steve Latham, Raytown, Mo.; Ron Hampel, St. Louis, Mo.; Gary Hoffstetter, Fieldon, Ill.; Dennis Tebeau, St. Louis, Mo.; Earl Weber, Jennings, Mo.; Dave Weinrich, Brentwood, Mo.; Jon Schroeder, Brentwood, Mo.; Bill Needner, Jefferson City, Mo.; Martin Thieme, Chicago, Ill.; and Ray Kremen, Chicago, Ill.

KAPPA SIGMA

Don Beach, St. Charles, Mo.; Chase, Webster Groves, Mo.; Mo.; Pat Brady, St. Louis, Mo.; Don Carter, Dallas, Tex.; Stan Chamberlain, Galena, Mo.; Jim Chase, Webster Groves, Mo.; Frank Clark, St. Louis, Mo.; Don Cooper, University City, Mo.; George Curran, St. Louis, Mo.; Mike Dressin, Quantico, Va.; Gene Foshage, St. Louis, Mo.; Dave Gossett, Des Moines, Ia.; Tim Houghton, University City, Mo.; Terry Jennings, St. Joseph, Mo.; Gene Kahlhorn, St. Louis, Mo.; George Koob, St. Louis, Mo.; Joe Kountzman, St. Louis, Mo.; Bob Naney, St. Louis, Mo.; Ron Peterson, Ballwin, Mo.; Ron Repplinger, Joplin, Mo.; Dale Schaeffer, Webster Groves, Mo.; Steve Seay, St. Charles, Mo.; Jerry Siemens, St. Louis, Mo.; Bob Smith, Olivette, Mo.; Pat Sutterfield, St. Louis, Mo.; Bill Trejbal, Fenton, Mo.; Tom Van Rhein, Brentwood, Mo.; and Gary Vallat, St. Louis, Mo.

DELTA SIGMA PHI

Kenneth Glenzy, Scott City, Mo.; Kenneth Gillham, Lebanon, Mo.; Paul Koehler, Quincy, Ill.; Jack C. Hornbuckle, E. St. Louis, Ill.; Gary Bowron, St. Louis, Mo.; Larry Creek, Kansas City, Mo.; and Al Haynes, St. James, Mo.

KAPPA ALPHA

Phil Hodges, Webster Groves, Mo.; Don Schilling, Kansas City, Mo.; Dick Jones, Houston, Tex.; Lloyd Schattyn, Frontenac, Mo.; James Woolridge, Butler, Mo.; Gary Rueter, Florissant, Mo.; Bill Bennett, Portrillo, Chile; John Schneider, St. Louis, Mo.; Charlie Martin, Ferguson, Mo.; Terry Faust, Mehlville, Mo.; Gary Lemberger, Springfield, Mo.; John Yates, Lebanon, Mo.; John Brosnahan, Hickman Mills, Mo.; Glenn Miller, Mountain View, Mo.; Don Gobble, Kansas City, Mo.; Terry Gum, Hoberg, Mo.; Joe Kasten, Raytown, Mo.; Cal Willis, North Kansas City, Mo.; John Wolf, Kirkwood, Mo.; Randall Bergfeld, Rerguson, Mo.; Jim Collins, Johnston City, Ill.; Jim Nielsen, Hickman Mills, Mo.; and Dave Mitchell, Rolla, Mo.

LAMBDA CHI ALPHA

Fred Bender, Bethalto, Ill.; Truett DeGeare, Crystal City, Mo.; William Richard Taylor, Florissant, Mo.; Richard Garrett, St. Louis, Mo.; Frederick Puster, St. Louis, Mo.; John Klug, Jr., Lebanon, Mo.; Jerry Davis, Adrian, Mo.; Rich Edinger, St. Louis, Mo.; Ronnie Esther, Lebanon, Mo.; Richard W. Osborn, Jr., St. Louis, Mo.; Larry Godfrey, Dexter, Mo.; Randy Hill, Kansas City, Mo.; Pat Key, Rolla, Mo.; Chuck Conners, Decatur, Ill.; Phil Petiford, Monett, Mo.; Howard Stein, Springfield, Mo.; and John West, Humansville, Mo.

PHI ALPHA

Lawrence Leon Watson, Macomb, Ill.; Gerald Paul Simpson, Lemay, Mo.; William Frank Gildehaus, St. Louis, Mo.; John Gifford Cobb, St. Louis, Mo.; and Raidus Thomas Henslee, Cheney, Kan.

PHI KAPPA THETA

William F. Winters, Ste. Genevieve, Mo.; Henry E. Anthonis, St. Louis, Mo.; John F. Koepfer, Perryville, Mo.; Gerald J. Baker, Rolla, Mo.; Dennis M. Fitzgerald, Mo.; Roy Ticknor, Florissant, St. Louis, Mo.; Dennis E. Reilly, St. Louis, Mo.; Adrian Bosch, Lemay, Mo.; Michael O'Malley, St. Louis, Mo.; Gary Graves, St. Louis, Mo.; Kenneth Keubler, Jefferson City, Mo.; Charles Kaiser, Jefferson City, Mo.; Thomas Fulwider, St. Louis, Mo.; James W. Scanlan, Peoria, Ill.; Thomas M. Shields, St. Louis, Mo.; James M. Norausky, E. St. Louis, Ill.; Gerald J. Kintz, St. Louis, Mo.; Thomas J. Knopstein, St. Louis, Mo.; and Richard W. Dallas, Ste Genevieve, Mo.

PI KAPPA ALPHA

Gary Barth, St. Louis, Mo.; Bill Beasley, Ladue, Mo.; Ken Bell, New Kensington, Pa.; Gene Brune, Mehlville, Mo.; Jim Cowles, Chaffee, Mo.; Tom Daily, North Brunswick, N.J.; Chas. Dakin, St. Joseph, Mo.; Bill Dennis, Mehlville, Mo.; Floyd Dickson, Springfield, Mo.; Bob Duncan, Lindbergh, Mo.; Bill Feuchter, Peoria, Ill.; Jack Fogarty, New Orleans, La.; George Gasparovic, Mehlville, Mo.; Marvin Gorman, Liberty, Mo.; Skip Grantham, Maplewood, Mo.; Craig Groh, St. Louis, Mo.; Richard Harvey, St. Louis, Mo.; David Hoffmeister, West Jackson, Mo.; Bill Hollander, Centralia, Mo.; David Hunt, Troy, N. Y.; Tony Kirn, Jackson, Mo.; Jif Klinger, Webster Groves, Mo.; Eddie Lack, St. Louis, Mo.; Michael Lady, Barnhart, Mo.; Ronald Ledbetter, E. St. Louis, Ill.; Gerard Mendel, University City, Mo.; George Wagner, Jackson, Mo.; Steve Willis, Sikeston, Mo.; Tom Zabel, Brownston, Ind.; Richard Milliman, Liberty, Mo.; Jim Mittler, St. Louis, Mo.; Fred Mueller, St. Louis, Mo.; George Nuckolls, St. Louis, Mo.; Dave Riley, Steeleville, Ill.; Ron Smith, Clarkton, Mo.; Dave Spencer, Kansas City, Mo.; Bryant Stirrat, Webster Groves, Mo.; Mike Sullivan, St. Charles, Mo.; Allen R. Pfeuffer, St. Louis, Mo.; Terry A. Rieder, Osage Beach, Mo.; and Frederick S. Roth, St. Louis, Mo.

SIGMA NU

Norman J. Adams, North Fork, Mich.; Richard B. Blum, Kansas City, Mo.; B. Scott Culbertson, Little Rock, Ark.; William E.

Dawson, E. St. Louis, Ill.; Terry W. Fender, Louisville, Ky.; Frank Gehrig, Rolla, Mo.; Raymond J. Graff, Springfield, Mo.; Robert H. Graham, Independence, Mo.; Donald R. Hinton, Independence, Mo.; Richard T. LaBracio, Linden, N. J.; B. Michael Lutsenburger, Dodge City, Kan.; John N. Mitchell, Litchfield, Ill.; Franklin S. Reiferson, Boston, Mass.; Cictor P. Restelli, St. Louis, Mo.; Robert J. Ronzo, New York City, N. Y.; Larry W. Scott, Wheeling, West Va.; John N. Skeer, Scranton, Pa.; Robert Webb, Malden, Mo.; Gene Sandifer, Raytown, Mo.; J. B. Shireman, Raytown, Mo.; and Pete Brock, Alton, Ill.

SIGMA PHI EPSILON

Roland Albrecht, Fort Lee, N. J.; Bob Asher, Elmhurst, Ill.; Leroy Bordeaux, Alton, Ill.; Lance Bromley, Laomi, Ill.; Dennis Bush, Centerville, O.; Roger Clamors, St. Louis, Mo.; John Elliott, Sterling, Ill.; Jesse Heiskell, Kirkwood, Mo.; Phil Johnson, Sterling, Ill.; Dennis Long, Sterling, Ill.; Gary Mertens, Normandy, Mo.; Gary Nickens, Alton, Ill.; Richard Schmersahl, O'Fallon, Mo.; Dennis Tibbs, St. Charles, Mo.; and William Trione, E. St. Louis, Ill.

TRIANGLE

Robert Harting, Ferguson, Mo.; Stephen Kempf, St. Louis, Mo.; John Saurez, E. St. Louis, Ill.; William Twegrzyn, St. Louis, Mo.; Thomas Bohn, Affton, Mo.; Jack Davis, St. Louis, Mo.; Ernie Rille, St. Louis, Mo.; William Polka, E. St. Louis, Ill.; Kenneth Irwin, St. Louis, Mo.; Tom Lillie, O'Fallon, Ill.; Richard Vogel, Queens Village, N. Y.; Ted Schaefer, Granite City, Ill.; Bob DiPaolo, Wood River, Ill.; Jim Keppel, St. Louis, Mo.; Ralph Cassell, St. Louis, Mo.; Patrick Dillon, E. St. Louis, Ill.; Gerald White, Wood River, Ill.; and William Odle, East Alton, Ill.

SIGMA PI

Gary Hascall, Millstadt, Ill.; Bob Hampe, Normandy, Mo.; John Crangle, St. Louis, Mo.; Tom Jaslin, Normandy, Mo.; Don Huser, Normandy, Mo.; John Palmer, Utica, N. Y.; Mel Sutherland, Overland, Mo.; Jim Weinig, Columbia, Ill.; Dave Lockner, Normandy, Mo.; Earl Hamilton, Licking, Mo.; Charles Schaffer, St. Louis, Mo.; Bill Weber, St. Louis, Mo.; Roger Stewart, St. Louis, Mo.; Jack Halprin, Bromfield, N. Y.; Dave Chambers, Lebanon, Mo.; Tom Ilten, Normandy, Mo.; Gerald Fisher, Chicago, Ill.; and Robert Hall, Oregon, Mo.

Teke Queen International



Miss Gail Stiefel

Blue-eyed and a captivating eye full is blonde Gail Stiefel, the girl chosen as the 1962 International Sweetheart of Tau Kappa Epsilon Fraternity.

Miss Stiefel, daughter of Mr. and Mrs. Robert J. Stiefel of Byram Shore Road, Byram, Conn. was the Sweetheart contest entry of Beta Eta chapter of TKE at our Missouri School of Mines, and is pinned to Michael Nataluk of that chapter.

Gail was the first runner-up in our annual St. Patrick's Queen contest of 1962.

The 19-year-old beauty was a Delta Gamma pledge when she transferred to Lindenwood College, a girls' school in St. Charles, Mo. She is a junior, and her major studies are political science and foreign languages.

"I would like to go into the Peace Corps and work in a foreign country," she says of her ambition. "I have studied Russian Spanish, and French, and would

like to work somewhere where I can speak one of these languages.

Vital statistics: Height 5 feet 4 inches, weight 110 pounds, measurements 36-22-36.

At Lindenwood College, Miss Stiefel is president of Cobbs Hall dormitory, is on the Student Council and a member of the Press Club. She was social chairman of the freshman class, was elected to the Lindenwood Cotillion, is a "disc jockey" and assistant publicity chairman for the campus radio station KCLC, and was chairman of a booth at Lindenwood's annual carnival.

At Greenwich High School, she was a Student council representative, vice president of Social Club, news editor of the school newspaper, treasurer of the school magazine and a member of the International Relations Club. Her hobbies and interests include musical comedy, ballroom dancing and skiing both on water and snow.

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Fraternities of MSM

SIG EP INITIATES

On September 15, 1962 Sigma Phi Epsilon initiated five new men into the brotherhood.

Friday night these men visited Dean Wilson, Father Sullivan, and one of Sig Ep's alumni Ron Rex and had group discussions with these men on the aims and ideals of Sigma Phi Epsilon.

This being their pre-initiation ceremony allowed them to think seriously about that which they would soon be a part.

Initiation took place at 2:00 p.m. and was followed by a formal banquet at the Blueberry Patch, where a fine meal and a brotherly atmosphere set the scene for speeches by the new initiates concerning their hopes, aspirations, and devoted feelings towards their newly acquired brothers and fraternity.

The new members in order of initiation are Bill Logel, honor pledge, Craig Dunn, Bill Connors, Harold Pfontz, and John McGrath.

SIGMA TAU GAMMA

E. Michael Hickly, Pittsburgh, Pa.; Charles W. Dunmire, Sussex, N. J.; Warren Poppe, St. Louis, Mo.; Raymond Lile, Independence, Mo.; Peter Seabase, St. Louis, Mo.; Douglas Gerdes, Creve Couer, Mo.; Barrent Ten Broek, Fenton, Mo.; and Bruce Abernathy, St. Louis, Mo.

THETA XI

Dwight Reznay, St. Louis, Mo.; Douglas J. Wilson, St. Louis, Mo.; Fred W. Erdmann, Greenwich, Conn.; Harry W. Elliott, III, Abilene, Tex.; Bill McFadden, Decatur, Ill.; Martin Stiff, North Syracuse, N. Y.; Robert Jones, Affton, Mo.; Wallace Oppel, Baltimore, Md.; Ray Betz, St. Louis, Mo.; Ray Silbert, St. Louis, Mo.; Bob Klauser, Richton, Ky.; Fran Canasta, Herkimer, N. Y.; Lawrence H. Ellett, Walnut Creek, Calif.; Larry Thompson, Riverdale, Ia.; Bob Hoffmeister, St. Louis, Mo.; and Mike Stephens, Louisiana, Mo.

Over the summer, six Sig Eps bit the dust. Brother Corky Villegas, after receiving his Master's degree in June, married Miss Jean Fehlig of St. Louis. Richard Musgrove became engaged to Miss Linda Galligher of Alton. Miss Judy Fister of Normany was pinned by Brother Barry Hayden. Brother Jay Waring was engaged to Miss Jackie Adamick. Brother Bob Thurman got his first look at married life this month when he was wed to Miss Dorothy Joslyn, Sig Ep's 1962 Greek Week Queen candidate. And finally, last Tuesday, Brother Terry Johnson married Miss Carolyn Funke.

KAPPA SIGMA KAPPA JOINS THETA XI

The national officers of Theta Xi and Kappa Sigma Kappa Fraternities signed a merger agreement on August 20, 1962, after Kappa Sigma Kappa's House of Delegates unanimously approved the agreement at their convention in Detroit. The chapters of Theta Xi had earlier authorized their Grand Lodge to enter into the agreement.

The newly combined Fraternity preserved the name and badge of Theta Xi Fraternity, which was founded in 1864 at Rensselaer Polytechnic Institute in Troy, New York. The pledge pin, name of the manual (The Quest), and flower were brought into the Fraternity from Kappa Sigma Kappa, which was founded at the Virginia Military Institute in 1867 and reorganized at the University of Virginia in 1935.

"The merger of our group with Kappa Sigma Kappa is a significant step forward, both for our combined fraternities, this chapter, and the fraternity system at Missouri Mines," said Thomas E. Kreichelt, chapter president. "We're proud to be affiliated with the other 67 chapters of Theta Xi Fraternity."

The combined staffs will serve the Fraternity's 68 chapters. Theta Xi will soon break ground for its new Memorial Headquarters in St. Louis, Missouri.

REGISTRATION

(Continued From Page 1)

mechanical engineering department, which, due to its extensiveness, offers perhaps a more fundamental and less specific engineering curriculum than the preceding departments followed in third place with 647 students. The chemical engineering and metallurgy departments were the next largest departments with totals of 307 and 284 respectively.

The junior class, looking forward to graduating next year, emerged as the biggest class with 879. Not to be outdone, 812

PI KA AWARD

(Continued From Page 1)

his fraternity, including that of President.

The Pi KA's made a clear sweep of things at their national convention by also winning the "Hippel Award." This award was awarded on the basis of outstanding participation in campus activities and campus leadership.

The Pi KA's certainly have a lot to be proud of and we of the Miner staff feel sure we speak for the entire school in offering Pi Kappa Alpha and Bill Hallerburg our sincere congratulations for these outstanding recognitions.

TRADITIONS

(Continued From Page 1)

changed. We realize they are horrified of us down here, but if they have the manners they're supposed to possess, they will accept our hospitality. At any rate funeral rites will be held for the Bears once again this coming Sunday.

Smith, Charles Riggs, Keith Bailey, and Don Bacich. The Miner line seems very impressive to date; however, a little juggling of Bob Olsen, D. D. Murrel, and Gary Couse in the backfield should prove to be an interesting sidelight as Coach Bullman prepares for his assault against the Bears.

As the game is played, it is interesting to note that the Miners will be switching from MIAA rules to NCAA rules. Here NCAA does not allow free substitution or the platoon system of football. Consequently the game against St. Mary of the Plains will be played, for the most part, with the starting players going a quarter at a time without being substituted. Coach Bullman deems this necessary to help condition the team for victory on September 22.

Needless to say our favorite team has been sweating and straining on the field to prepare for a winning season and to help bolster the prestige of our athletic department. Why can't we, as fellow Miners, help out the team by backing them in the stands while they bump heads with the Bears. The author feels that this is the least we can do for Coach Bullman and our Missouri Miners — "See you in St. Louis."

SUPPORT
THE
MINERS!

ATTEND
THE
GAME!

freshmen, who had just recovered from orientation week, formed the second largest class on campus. The sophomores, a class of 751 strong, was able to outnumber the senior class of 725. As illustration of MSM's increasing importance as a graduate school, 240 graduate students also registered.

The School of Mines and Metallurgy is a division of the University of Missouri and has its own campus at Rolla. Although statistics are as yet incomplete for this semester, it is anticipated that the School's widespread student enrollment will approximate last year's, which included students from 47 states other than Missouri and 42 foreign nations.

Although the University of Missouri School of Mines and Metallurgy was founded as a school of mineral industries, disciplines offered by the School include ceramic, civil, electrical, geological, chemical metallurgical, mining, nuclear and mechanical engineering, mathematics, physics, geology and chemistry. Master's degrees are offered in all of these fields and Ph. D.'s are offered in ceramic, geological, chemical,

metallurgical and mining engineering, and in physics and geology. It is expected that Ph. D.'s will be offered in the other five areas in the near future.

The national rankings by the American Society for Engineering Education of engineering schools by size of undergraduate enrollment and number of undergraduate degrees awarded placed the Missouri School of Mines and Metallurgy above the University of Colorado, Iowa State, Virginia Polytechnic Institute, and Northwestern, as well as many other institutions in one or both of these areas.

NOTICE!

Any student who did not receive his copy of the '62 Rollamo, who has paid for it, may pick up his copy at the Rollamo office in the basement of the Rolla Building on Sept. 25 or 27 between 1:30 and 5:30 p.m. Also any student photographer who would be interested in working on the yearbook staff please contact Ken Varady at EM 4-2731.

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Miners and Bears Face it off Again

By Don Sobczak

As the autumn returns, it is again time for the annual pigskin rivalry. I am sure all the gridiron fans are ready for another exciting, along with a winning season for the Miners.

All the Miner fans know that Washington University, located in St. Louis, Mo., is one of our outstanding rivalries; thus, the following article will include facts concerning the up and coming game between our favorite Missouri Miners and the Washington University Bears.

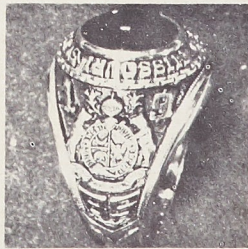
It seems that the butting of helmets and crashing of pads between these two teams started at the early date of 1898. Now, a famous St. Louis newspaper has the Bears recorded with undefeated seasons in 1898 and 1918. However, the Missouri School of Mines' records show the Miners' winners of that 1898 game; although, no record of the winning score is available. Of course, there is no doubt in the author's mind as to which record is correct.

The overall standings between these two teams shows the Bears with a very impressive 31 wins compared to 8 wins for the Min-

ers. We can favorably look back to last year's squad as the Miners "buried the Bears" 19 to 0. With a close look at the history of this rivalry, it can be seen that our Miners have never quite managed back to back wins against Washington University. This, we believe, is one of the reasons for predicting an exciting game on Saturday, September 22.

Facts about the Bears show that the young Dave Puddington, head coach, has been blessed with 12 transfer players with whom he can mold into the squad. Along with these twelve, the squad numbers a respectable 81 giving the Bears depth every where we look. We seem to think that our Miners have a slight advantage with 15 lettermen returning to give coach Gale Bullman his first two victories in a row against Washington University. For the Bears, a small number of 9 lettermen out of 81 gives us an added boost in our hopes for reigning victorious come game time.

When our team lines up for game time, they will be led by the able quarterbacking of Jay Alford. Other veterans of the field ready to back up Jay are Ken



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Two E. E. Professors Employed at Boeing

Prof. G. G. Skitek and Prof. James Smith of the Electrical Engineering Department have been employed at Boeing Airplane Company, Wichita, Kansas, this summer. They have worked in the antenna staff group and worked problems related to antenna and microwave equipment. The experience they have gained will be invaluable in the courses they

will teach and in the construction of an antenna pattern range that will be constructed on top of the Electrical Engineering Department at the Missouri School of Mines and Metallurgy. This facility will greatly increase the research capacity in the area of antennas and microwaves.

Prof Smith is presently working on his Ph. D. degree in the Physics Department at the Missouri School of Mines.

(Continued From Page 2)

PROF. NAU

Nuclear Instrumentation. North Carolina State College has a graphite moderated nuclear reactor built in 1953 and a water pool reactor. The last week of the course was spent at Oak Ridge National Laboratory making extensive tests on several nuclear reactors and studying the facilities of other new reactors. A high neutron flux reactor, which is a multi-million dollar facility, is now being constructed at Oak Ridge. It will be used to produce trans-plutonium nuclides, particularly Californium which was discovered by Dr. Seaborg, the Chairman of the Atomic Energy

Commission. Professor Nau got a lot of ideas for his courses at MSM.

Soon after completing the Nuclear Engineering school, Professor Nau spent two weeks with the Director of Instruction at the U.S. Army Southeastern Signal School. Professor Nau was assigned to studying the new and experimental methods being employed by the Signal School in their technical training. Tutor texts are being quite successfully employed in an arithmetic course and in a typewriter procedures course. Video tape is used to advantage on television in a number of courses as a teaching aid in skills of a repetitive nature, e. g. typing. Pro-

fessor Nau prepared a lengthy report for the Commandant giving recommendations on his findings.

ATTENTION GOLFERS!

STUDENT UNION GOLF TOURNAMENT WILL BE HELD SOON!

WATCH FOR INFORMATION!

Large Turnout at Newman Club's First "Smoker"

A "Smoker" was held by the Newman Club Thursday, September thirteenth to kick off the activities of the coming year. Among the high spots of the evening was an address by the Rev. Joseph Lawlor, who will be the club's Chaplain for the coming year. President Don Muhbaier presided over the meeting as he introduced club leaders and committee chairmen.

A very good turnout of over 250 students enjoyed the evening of free cokes, cigarettes and socializing. Program chairman Rachael Thompson announced that at our next meeting on September 27 the club will be treated to a cartoon carnival including such favorites as Mr. Magoo, Little Lulu, and Bugs Bunny. Next the committee chairmen will report on the progress of their respective committees.

A goal of the Newman Club this year is to raise attendance to one hundred per cent, making it the largest organization of a religious nature on campus with nearly 800 students.

Departmental Mixer to Be Held Next Week

On Wednesday, September 26, the Civil Engineering Department will hold a mixer in the Student Union Ballroom at 7:00 p.m. This will be followed by a joint mixer to be sponsored by the Mining Engineers and the Geology majors the next evening, September 27.

These activities offer excellent opportunities for students enrolled in these curricula to meet their faculty members, and provide means for freshmen and other new students to become better acquainted with the upperclassmen in their respective departments.

Interesting programs are planned for these mixers and refreshments will be served. All students are invited to attend.

NOTICE

Courtesy Stickers are now available to all unmarried students and married students whose wives are not living in Rolla. They can be obtained at the Office of Traffic Safety, Building T-7.

a message to graduating engineers and scientists

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University Dames Ask MSM Wives to Join

The University Dames of the Missouri School of Mines and Metallurgy will serve as national headquarters chapter for the National Association of University Dames during the 1962-63 school year, Mrs. Curtis L. Wilson, chairman of the Dames advisory board, has announced.

Eligible for membership in the Dames are wives of married students and also mothers of out of town students residing in Rolla on a temporary basis.

The Dames Organization has for its purpose "to promote a spirit of friendliness, furnish a means of entertainment, and to stimulate general culture among its members."

According to national association by-laws, each chapter serves in turn as national headquarters chapter. The MSM group became affiliated with the national organization on March 12, 1942.

As headquarters chapter, the MSM group will keep the records of the national organization, carry on all correspondence and business transactions, assist in forming new clubs and supervise the publication of the 1962-63 yearbook. There are 93 chapters in the national organization.

Officers of the local group, elected in April and installed at the Dames' annual May banquet held on the MSM campus, will serve as national officers for the coming year. The assistant treasurer and assistant corresponding secretary will take over the duties of the national office, while the treasurer and corresponding secretary will work on the local level. All other officers will serve in a dual capacity.

These officers are as follows: Ruth Herron Betts, Florissant, Mo., president; Marlene Bagley, Peoria, Ill., recording secretary; Doris Baier Brockmann, Huntington Station, L. I. New York, treasurer; Sharon B. Lee, St. Louis Mo., assistant treasurer; Darleen M. Dunker, Perryville, Mo., corresponding secretary; Villa Sneed Richardson, Benton, Ill., assistant corresponding secretary.

Jean Foster Irby, Poplar Bluff, Missouri, will serve as editor of the yearbook.

It is hoped that all the wives of our married students will join the

MSM chapter and will participate actively in the many activities which this organization has to offer. The first meeting of this semester will be held in the Student Union Ballroom on Tuesday, September 25 at 7:30 p.m.

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Miners Blank St. Mary of the Plains College; Score Twice

By Jim Weinle

After having completed their first week of classes here at MSM, Coach Bullman's Miners packed up and galloped over to Dodge City, Kansas, for a showdown. At 7:30 p.m. on Saturday evening, the big moment arrived. As the two adversaries lined up and faced each other, ready for action, the starting signal was given. The gridiron battle between the St. Mary of the Plains Crusaders and the MSM pigskin pushers was off in the running.

Two hours and fifteen minutes later, it was all over. The end result—the Miners had scored a total of 13 points while holding their opponents to none. The two clubs were well matched, and both were well prepared. The boys played as well as they were expected, but they slacked off some-

what when they got around to passing the ball. Out of 21 passes attempted, only 4 were completed for a total gain of 42 yards. It was a different story when it came to punting. The Miners totaled 278 yards, with Bill Kauffmann averaging 43.3 yards per punt and Jay Alford 37. The net gain for rushing was 120 yards as compared to St. Mary's 74. In overall totals, MSM compiled 245 yards forward, while the opposition was not far behind with 226.

The first touchdown came in the first quarter on a pass from Alford to Ricky Schmidt. Kauffmann drove through the line to make the second T.D. in the third quarter. Gary Koch made the conversion for the extra point.

Penalties played an important role in this contest. Since there were a considerable number of

them (probably due to the fact that it was an early game), the situations changed fast. One minute the Miners might have had control of the ball in an advantageous position; the next minute the shoe might have been on the other foot. With something like that happening every few minutes or so, the end result could be a toss-up.

The annual duel between MSM and Washington University in St. Louis takes place Saturday. With a heavy schedule including games with traditional rivals like Wash. U., our ball club needs as much support as their fans can give them, as well as a strong team spirit. The victory over St. Mary of the Plains just might bolster the club's spirit and enthusiasm to a point where no team, not even the Bears, will down the Missouri Miners.

'61-62 Intramurals End With Tech Club Victor

By John Dierker

With the beginning of the '62-'63 intramural year, it is time to look back and give praise to those who participated last year. To the victors we extend our congratulations, but without the whole hearted co-operation and participation of all the organizations, our intramural program here at MSM would not have been as successful as it was.

The first place organization in the intramural standings last year was the Tech Club with a total of 1672.25 points. They amassed their points with first in Wrestling, Golf, Rifle, Volleyball, and Horseshoes and runner-up in Track, Softball, Handball, and Basketball. The fact that they are the champs shows that a lot of hard work and co-operation among its members resulted in their triumph.

The second place team was Sigma Nu, who placed first in Basketball, Track, and Table Tennis and runner-up in Golf, Wrestling, and Boxing. Last year, as in previous years, Sigma Nu continued its fine athletic prowess by accumulating a total of 1598.5 points.

Lambda Chi Alpha, with the third place finish, were runners-up in Tennis and Volleyball and made a good showing in most of the other sports.

The final intramural standings complete with the total number of points attained by each organization are as follows:

Team	Points	Place
Tech Club	1672.25	1
Sigma Nu	1598.5	2
Lambda Chi Alpha	1504.75	3
Phi Kappa Theta	1500.5	4
Triangle	1500.00	5
Pi Kappa Alpha	1313.75	6
Kappa Sigma	1301.00	7
Sigma Phi Epsilon	1221.5	8
Engineers' Club	1199.75	9
Sigma Tau Gamma	1091.75	10
Prospectors	987.5	11
Kappa Alpha	927.25	12
Dorms	896.75	13
Delta Sigma Phi	858.28	14
Beta Sigma Psi	844.00	15
Tau Kapp Epsilon	873.00	16
Fifty-Niner's	775.25	17
Acacia	631.75	18
Shamrock	627.00	19

Sigma Pi	607.00
Phi Alpha	568.25
Baptist Stu. Union	454.25
Theta Xi	411.00
Wesley	306.00

We would also like to give praise to the intramural athlete of the year, Ron Koenig of Triangle Fraternity. Ron received this award for his all around participation in the athletic events. Congratulations Ron, job well done.

Each year intramural sports have become better and this year it should be the best yet. Who knows, maybe this year the girl's dorm may take first place. Don't laugh, it could happen.

The athletic achievements and good sportsmanship shown in the last season once again the purpose of intramural sports: to develop a man's body and character as well as his mind. Last season is over now, good luck in 1962-'63.

1962 Track Team Boasted Three Record Holders

The MSM track team of 1962 had three school record holders two of which were set in 1962.

Jay Alford, high jump.

John Brown, mile.

Raymond Mullen, pole vault.

Alford, a sophomore, tied the high jump record in 1961 set by Bob Lange in 1935 of 6'3 1/8".

Brown, a junior, broke the mile record in 1962 held by John King and set in 1946. The new record is 4:32.

Mullen, a freshman, vaulted 13' in 1962 to take the record of 12' 11 1/8" from Nick Barre set in 1958.

This is the first Miner track team to have three record holders in 27 years.

If at first you don't succeed, you're about average...

Mothers-in-laws are like seeds... you don't need them, but they come with the tomato...

1962 Miner Football Team



Cross Country Runners Prepare for First Meet

The start of the school year signifies also the beginning of organized workouts for MSM's cross country squad, under the guidance of Coach Ralph Schowalter. It promises to be an interesting season, highlighted by a battle for the MIAA championship, with teams from Kirksville, Warrensburg, Cape Girardeau, Springfield, and Rolla all figuring to be contenders for the honor. Kirksville has taken the title for three straight years, but is rumored to be weaker this year. At Warrensburg, the return of Bill Silverburg, best distance man in the state, could boost that team to the championship. Cape Girardeau suffered from graduation, but could surprise. Springfield, although in only their second year of competition, will nevertheless be much improved.

The Miner squad has four returning lettermen, Les Sheets, Ruben Crenshaw, Jay Waring, and John Brown. Also returning are Lewis Allen and track letterman Ted Moore. Moore worked out for some time this summer under the guidance of the immortal Glenn Cunningham. Another good prospect is Skip Dammotte, track letterman and fourth place finisher in last fall's intra-

mural cross country competition. Sherm Brady, a standout of the 1958, '59, and '60 squads, is working to get back into shape after missing the '61 season. Craig Dunn, winner of last year's intramural run, may join the varsity. Several new men show potential, including seniors Mike Norman and Larry Bell and freshmen Larry Godfrey, Russell Radiewicz, John Ruser, Warren Poppe, Mike Gossett, and Jerry Siemens.

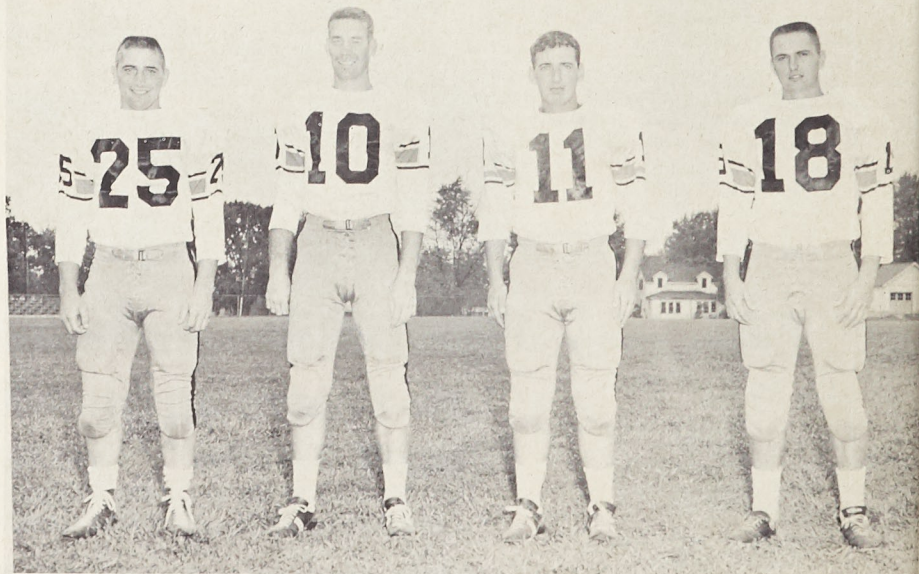
The squad opens its season on October 6, Parents' Day, against Lincoln University. This could be a tough one, considering that Lincoln's distance men trounced MSM's milers and two-milers in a track meet last spring.

Eighteen Lettermen Start 1962 Season

Football season is here again. The Miner squad looks very promising this year. forty three men our out, including eighteen returning letterman. There are four quarterbacks, nine half backs, four full-backs, six tackles, eight guards, three centers and nine ends.

Returning letterman are: Jay Alford (QB), Donald Bacich (HB), Keith Bailey (C), Gary

Couse (FB), Charles Green (G), Arthur Handshy (T), William Kauffmann (FB), Robert Kieser (G), Willard Knussmann (E), Robert Olson (FB), Stephen Omalski (G), Charles Riggs (C), Gene Russell (E), Ricky Schmidt (HB), Kenneth Smith (T), James Verdi (HB), Gary Voorhis (FB), and Terry Wargo (E).



Gary Voorhis, Jay Alford, D. D. Murrell, Gary Koch.