



15 May 1964

The Missouri Miner, May 15, 1964

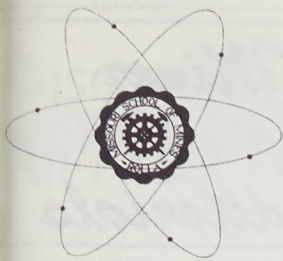
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The Missouri MINER

MISSOURI SCHOOL OF MINES AND METALLURGY

VOLUME 50

ROLLA, MO., FRIDAY, MAY 15, 1964

NUMBER 28

See Greek Week
Queen Candidates

Pages 4 and 5

Grad Student Develops High-Temperature Jet

A machine capable of producing temperatures hotter than the surface of the sun has been built by a graduate student at MSM.

Ronald Williams, Overland, built the plasma jet as part of the work leading to his master's degree in mechanical engineering, which he expects to receive this month. Dr. Harry Sauer, associate professor of mechanical engineering, is Williams' advisor.

The plasma jet has attained a maximum temperature of approximately 15,000 degrees Fahrenheit, over 4,000 degrees hotter than the sun's surface temperature.

from the jet is only about three inches long, it is bright enough to light the surrounding laboratory and must be approached with extreme care. Even using welders' helmets, the men working with the jet have received "sunburns." The extreme heat is prevented from melting the metals in the machine by introduction of cold water around the nozzle.

This is believed to be the first plasma jet in use in an educational institution in this area. Other such machines are used by industry for such things as welding, cutting and spraying metal, and in

Dean Baker Appoints Chairmen For Liberal Arts Department

Appointment of chairmen to head two new departments to be established in the reorganization of the academic structure of MSM has been announced by Dean Merl Baker.

Prof. James G. Harris, now a member of the faculty of Southeast Missouri State College at Cape Girardeau, will be chairman of the Department of Social Studies, and Prof. Jim C. Pogue, now on the faculty of Nebraska State College, Wayne, Nebraska, will be chairman of the Department of Humanistic Studies. The appointments are effective September 1.

The two new departments are to be formed as an expansion of the Department of Humanities and Social Studies. Prof. Samuel H. Lloyd, professor of economics, who has served since 1946 as chairman of the department, has requested to return to full time

teaching. Prof. Lloyd has been on the MSM faculty since 1921.

"This expansion in the area of humanistic and social studies is in keeping with the national trend for greater emphasis in these subjects to meet the needs of today's engineering student," Dean Baker said. "More courses will be offered with this expanded program, and, in addition, courses at more advanced levels will be taught."

Consideration is now being given to a master of engineering or a master of engineering administration program which will be administered jointly with the Departments of Social Studies and one of the presently established engineering departments. This program would be in addition to the master of science in engineering and would be especially designed for the engineer going into management or private practice.

Prof. Harris, who will hold the rank of professor of history, is at present professor of history at Southeast Missouri State College. A native of Webster Groves, Mo., he graduated from Westminster College in Fulton, Mo., in 1938 with a B. A. degree. He did graduate work at the University of Missouri where he received his M. A. in 1948, and doctorate the following year. During World War II he entered service as a pri-

(Continued on Page 3)

MSM ROTC to Be Inspected by Visiting Cadre

The Annual General Inspection of the Reserve Officers Training Corps at MSM is scheduled for Monday and Tuesday, May 18th and 19th.

The cadet Brigade Awards Review will be conducted at 4:30 p. m. Monday at Jackling Field as a part of the inspection. The public is invited to attend.

The inspecting team will include Colonel Boyd F. Walker, team chief, from Wentworth Military Academy; Lt. Col. B. A. Johnson, University of Missouri; Captain George M. Cross, Western Academy; and Captain Leland J. Linman, XI U. S. Army Corps, St. Louis.

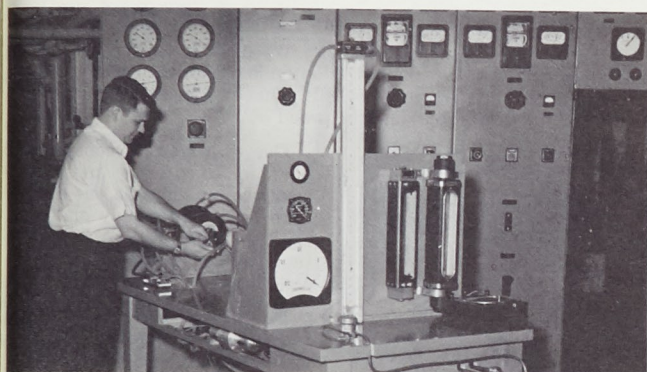
MSM Student Fatally Injured In Cycle Mishap

On Tuesday, May 5th, a Rolla youth was fatally injured in a motorcycle accident. The accident occurred on Highway 68 in the city of St. James at 6:40 p. m. The youth, Richard Scott, 20, was being chased by a St. James patrol car. Scott was traveling at a high rate of speed on his 1959 Triumph motorcycle when he suddenly made a left turn directly in front of the patrol car. The motorcycle was completely demolished. Scott was taken to Phelps County Hospital where he died at 8:00 p. m., May 5 of a fractured skull.

NOTICE!

The Traffic Safety Committee has announced that any student so desiring may bring an automobile to Rolla from the 15th of May, 5:30 P. m., through the end of the semester for the purpose of transporting their belongings home.

A student bringing an automobile to Rolla should report to building T-7 and obtain a Rolla Courtesy Sticker.



Ronald Williams, a graduate student at MSM, checks his plasma jet with which he has achieved temperatures of up to 15,000 degrees Fahrenheit.

The extreme temperature is achieved by passing argon gas through a region containing an electric arc. As the gas is heated, it picks up energy from the arc and reaches the plasma state, the fourth state of matter. In this state, achieved only under conditions of extreme heat, gasses pick up enough energy so that the electrons which revolve around the nucleus of the atom in ordinary matter go out of orbit and leave only the nucleus and free electrons. Williams' machine produces about two per cent plasma.

Although the superhot exhaust

the aero-space industry for testing heat shields of space vehicles. Williams generator was modeled after one in use by the McDonnell Aircraft Corp. in St. Louis.

Plasma jets are now being studied for application in space propulsion. Too small at present for ground launchings, they may serve to launch vehicles from space platforms.

Williams, who is participating in the Cooperative Training Program of alternate periods of industrial work and classroom study, expects to return to work full time for McDonnell Aircraft.

"Rolla Night" Planned For Springfield Schools

High School students in the Springfield area who are interested in science and engineering will have an opportunity to quiz experts in the field, members of the faculty of the University of Missouri School of Mines and Metallurgy, at an open meeting at 7:30 p. m. Wednesday, May 13, in the dining room of the Parkview High School.

Sponsored by the newly-organized Springfield section of the Missouri School of Mines Alumni Association, the first annual "Rolla Night Activities" are planned so that prospective students and their parents may meet and talk with the School's faculty and alumni about the engineering profession. Representatives from all

campus departments and administrative offices will be present to answer questions concerning admission, scholarships, costs and questions of interest to the college-bound student.

Dr. Merl Baker, dean of the faculty of the School of Mines, will be the principal speaker. He will discuss future trends in engineering education. Dean Baker joined the School of Mines faculty last September, coming to the School of Mines from the University of Kentucky where he was executive director of the Kentucky Research Foundation and director of International Programs.

Following the program, there will be a social hour to give students and their parents an opportunity to meet with officials and teaching staff of the School.

MSM Materials Science Research Center Building Scheduled to Be Ready for Occupancy by January 1966

The Materials Science Research Center, soon to be constructed at MSM, is a branch of the University of Missouri Space Science Research Center. This laboratory will be built through funds appropriated by the legislature in its last session. The program conducted at the center will study the crystal and microstructure of ceramic, metallic, and polymer materials. The Departments of Ceramic Engineering, Chemical Engineering, and Physics will direct the experimentation. The general theme of the experiments will be the physical and chemical behavior of substances in various environments, such as on earth and in the vacuum of space.

The current planning of the

Materials Research Committee of the faculty is the "development of a joint effort with an industrial research group for work in the field of surface characteristics of materials as related to problems of coating and joining as well as composites of the three general classes of materials — ceramics, metallics, and organics. Funding for this program is being sought after from a federal agency which has a long-standing interest in materials developed for the Department of Defense."

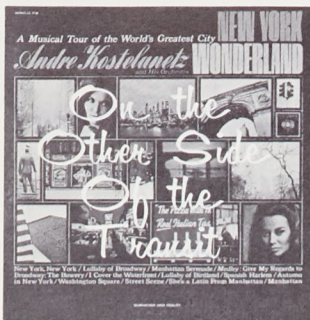
Dean Baker has reported that he hopes that more research facilities along similar lines will be constructed here in the future. Of the four Material Research staff positions to be filled, two are still

vacant. Dr. Otto Hill was appointed to the position of Professor of Physics and Materials Research effective April 1, 1964. Dr. Hill is from General Dynamics in Fort Worth, Texas. Appointed to the position of Professor of Chemistry and Materials Research was Dr. William J. James, currently Professor of Chemistry at MSM. The remaining two positions in the Department of Metallurgical Engineering and Department of Ceramic Engineering shall be appointed by September 1, 1964.

The actual site of the Center has not yet been determined. However, a Campus Planning Committee is making a study as to the land available. The facility is to be ready for occupancy by

January, 1966. The University of Missouri has approved a \$750,000 building fund for the construction of a building and the purchase of fixed, capital items of equipment. A proposal has been submitted to the National Science Foundation for a grant of \$535,000 to supplement the building and equipment fund. The MSM campus has also been given \$90,000 to cover the expense of personnel and equipment during the current biennium.

Some of the following equipment and items are to be purchased for the Center: emission spectrograph, mass spectrograph, electron microscope, electron paramagnetic resonance spectrograph, and infra-red and ultra-violet spectrometers.



By Bob Everding

New York Wonderland. A musical tour of the world's greatest city. Andre Kostelanetz and orchestra, Columbia, 2138, \$3.19.

Music is an art. Just as a painter uses colors or the actor uses words, music employs beat and rhythm to express some emotion or experience. In Andre Kostelanetz's salute to New York City, I believe the true art of music is shown.

In a brief 56 minutes and 28 selections (two records), Kostelanetz captures the atmosphere of a teeming New York. By means of a smooth combination of several types of music ranging from a Dixieland version of "Give My Regards to Broadway" to a waltz-tempered "Greensleeves" to the easy placidity of "Autumn in New York," Kostelanetz relates the inner spirit of that great metropolis—so diverse and so energetic.

The first of the two records—keynoted by the rapid, moving beat of "New York, New York"—takes the listener on a musical spin through that great city. The excursion affords the "sight-hearing" listener such attractions in music as "Spanish Harlem," "Washington Square," "Manhattan Serenade," and "I Cover the Waterfront."

The "melting-pot" with its many nationalities and peoples, predominates as the theme of the second of the records. In a salute to the many immigrant-inhabitants and foreign visitors, Kostelanetz takes a "trip-thru-music" around the world. Streaking "Under Paris Skies," the musical trip bids "Auf Wiedersehen" to Germany and continues on to Italy and "O Sole Mio." Crossing the "Song of India," our trip ventures through the South Sea Islands and "Bali Ha" and back to America's largest metropolis.

It is apparent that Kostelanetz has captured the true, naked New York City—its restless surface and its varied scenes and moods. This album—a Columbia Record salute to the World Fair—is indeed one of the best records of the year and worthy of a strong recommendation.

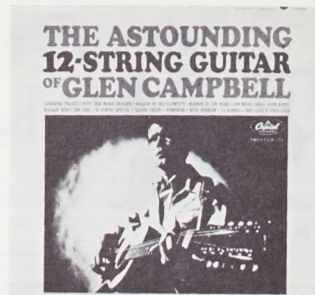
* * *

The Astounding 12-String Guitar of Glen Campbell. Instrumental, Capitol, T2023, \$3.19.

That Glen Campbell is the "nation's outstanding purveyor of the 12-string guitar," I have no doubt. That he is an excellent entertainer in his own right, I have no doubt. But that he is "astounding," I do have my doubts.

His style on some of his interpretations is especially good, but, on the whole, he produces an air of tedium and boredom as the listener wades through all twelve of his selections.

But the basic flaw in the album comes not from Mr. Campbell, but rather from the basic nature of the album. Folk music is an expression of ideas—a communication, a message. This instrumental—or any, for that fact—fails horribly to accomplish this. I can't feel the strong protest of Bob Dylan's "Blowin'" in the



Wind" or the pride of Woody Guthrie's "This Land is Your Land" or the sorrowful longing of Hedy West's "500 Miles" in Campbell's instrument versions.

What this album presents is a sound—pleasing—but definitely not folk music.

Letters to the Editor

A New Beginning

Dear Editor:

I chanced the other day to be reading through the 1963-64 MSM Manual of Information when I came to a page headed "A New Beginning." It began "the year 1963 marks a significant turning point in the history of this division of the University of Missouri." And certainly it did, for this is no longer a division of The University of Missouri, it IS a University of Missouri.

It went on to point out that "Dean Baker's initial message to the Student Body appears on an earlier page of this volume. Careful attention to its contents is suggested." Indeed, the words of Dean Baker prove to be prophetic of the future of MSM.

He states that "The first function of the administration and faculty of a university is to provide the stimulation of intellect out of which may be carved a fruitful and satisfying career. It is also our obligation to provide the effective and appropriate tools of knowledge and self discipline which are indispensable to your future professional employment."

These might well be the words of any incoming official. However, I believe they bear special significance in reflection of the many improvements and additions planned for this campus in the coming months and years. I was most struck, though, by the Dean's next words. "I am particularly concerned that our graduates demonstrate appreciative understanding and facility in use of the arts of communication and social relations. Without them there can be no effective transfer of technical knowledge."

The Humanities Department here is almost in the same shape as the Rolla Building and probably would be if not for the efforts of those teaching there. 'Facility in the use of the arts' is something unheard of around here and sometimes is even held in disdain by some students. It appears from these words that Dean Baker is aware of the situation.

It seems that plans have been made to correct this and other such situations on campus as soon as possible. Perhaps it is unfortunate that many of these plans have not been more vigorously publicized before the Student Body. Still they are there and they are being carried forth. We have already seen our name changed and a new status for the School of Mines. We have a new "Lease on Life." More changes are coming, and I for one am willing to sit back and see what our new dean has in store for us.

William B. Alpert

Story of a Boaster

(Editor's Note: Although it is not the policy of the MINER to print "Stories of Boasters" we feel that perhaps this will "show American taxpayers that foreign aid money is not totally misused.")

Dear Sir:

I am a foreign student, who is going to graduate this May. I enjoy going to this school and I appreciate very much the friendliness of Americans I have met, especially the students at MSM. I also think that Rolla is a pretty friendly town even though there is a small number of ignorant people who dislike foreigners for no reason. I have found that all faculty members, especially those of the Mining Department are extremely friendly and they always try their best to help foreign students.

I have discussed about almost everything with American students, about music, politics, education, sex . . . and so on. Many of them think that foreign students are not good students. Even one American student who is quite outstanding even declared that for years in this school not a single foreign student ever impressed him a little bit. Besides being an outstanding student, I am somewhat a boaster and I am going to send a copy to my girl friend to impress her. The story might even impress me. Furthermore, American taxpayers are paying for my education, and some of them might like to know that foreign aid money is not being totally misused.

Once more I appreciate sincerely the treatment I have been given in this country. And thanks for helping me to boast about myself on a large scale and in a more effective way. Since my English is not that good, please do not hesitate to make some correction.

Sincerely yours,

Tran Khanh Van

P. S. Enclosed is the story of a boaster.

(See Page 8)

MINER

MISSOURI SCHOOL OF MINES AND METALLURGY

THE MISSOURI MINER is the official publication of the students of the Missouri School of Mines and Metallurgy. It is published at Rolla, Mo., every Friday during the school year. Entered as second class matter February 8, 1945, at the Post Office at Rolla, Mo., under the Act of March 3, 1879.

The subscription is \$1.00 per semester. This Missouri Miner features activities of the Students and Faculty of M. S. M.

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Saturday System Inadequate

Since the advent of Saturday classes at MSM, they have become "necessary evils" for many Miners. It is now a common occurrence for a Miner to labor assiduously to devise a schedule free from Saturday classes only to be frustrated by the registrar's computers. Despite their inevitability, however, a certain amount of controversy always accompanies the mention of Saturday classes.

Certainly some classes on Saturday are necessary—to lessen the daily load on both the teachers and the students. When a student carries twenty hours of classes, he would surely find his load lighter if it were spread over a six day week.

But there is another aspect to the problem After a full week of classes, a weary Miner often finds himself ready for an occasional weekend of relaxation at home. If the student lives 150 miles from Rolla he finds it impractical—and in some cases, impossible—to leave after his Saturday classes. Or, if a student wishes to attend a Friday evening concert or play in St. Louis, he would be prohibited from attending by his Saturday classes.

The MINER staff is aware that some departments at MSM schedule Saturday classes as a matter of policy. And, as enrollment increases, Saturday classes will become a reality for many more students. We do not suggest the abolition of these classes. Rather, we recommend that some provisions be made for a more flexible system of Saturday classes. Possibly students could be allotted several free weekends per semester We do not profess to know the best solution, but we do feel that the school should investigate possible improvements on the present system.

Donated by the Class of 1916

Mizzou has its famed columns; Washington University has the impressive spires of its administration building; many Eastern colleges are known for their ivy covered halls. Our campus has no such trademark which it can display and be proud of.



Our Sundial

have seen the pedestal standing in front of Norwood Hall, serving no special purpose, and noticed by few.

Surely, although its title is not the "Department of Buildings and Grounds and Sundials," it would not have been beneath the Department of Buildings and Grounds to repair this gift of the Class of 1916. The Student Council is now taking action to see that this condition is remedied. It is to their credit that they have taken a step which might have been taken by the Department of Buildings and Grounds or by one of the service fraternities long ago.

Lesson on How to Read Newspapers

(Editor's Note: The following article appears in the April 1964 issue of "Missouri Press News" through the courtesy of a Kansas publisher.)

The Washington D.C. STAR has issued a booklet to its readers which includes a recommendation on how to read a newspaper. Here are its ten points:

1. Read your newspaper regularly. Make it a habit.

2. Don't be headline happy. Heads are just the menu; you have to eat the food (read body type) to get a complete meal.

3. Don't be page-one happy. Your news may be inside.

4. Don't be one-subject happy. Sticking only to sports, comics or

crime news is picking up pennies and leaving dollars.

5. Be a fact-seeker. Get facts from news columns. Then read the comment of columnists and editorial writers. You may find you're the better thinker.

6. Read with both eyes. Note qualifying words and also 'who said so.' Don't take the charge for conviction, rumor for fact or plans for accomplishments.

7. Don't be a reading coward. Don't be afraid to read opinions at complete variance from your own.

8. Get out of your reading rut. Read at least one thing every day completely apart from your normal interest. It'll give you a mental job.

9. Do your shopping at home. You'll find the best buys in the advertising columns of your own newspaper.

10. Relax and enjoy the fun. There's a lighter side of life and your newspaper covers it.

Research Is a Function of and An Asset to Any Good University

An important factor in the development of modern day technology is research. Research and research facilities are assets to any good university.

In a recent interview, Dean Baker said that research is considered to be one of the functions of any university. Often a public university, such as ours, is defined as having three purposes: instruction, research, and public service.

Research can easily be combined with both instruction and public service. If a professor has done research on the subject he is teaching, he is not only more qualified to teach the subject but will naturally create more interest in the subject.

Dean Baker continued by stating that engineering is the practice of an art, based on scientific knowledge. Research in science is a basis for engineering research. The two types used by this university are basic research and applied research. Each department should have a balance between the two.

Dean Baker went on to quote from the book, *Changing American University*, by President Clark Kerr of the University of California. President Kerr said, "The current problem is not so much that the university does not fully control the direction of its own development — it seldom has — but that it must quickly make essential adjustments so often. The major task of the modern American university is to wisely and quickly adjust to the important new possibilities. The great universities of the future will be those which have adjusted rapidly and effectively."

"Competition for prestige is very keen among universities," said Dean Baker. "Our prestige and position must be maintained; therefore, we must contribute to

research and development of technology. It is the administrator's and faculty's job to see that research does not hinder our undergraduate program."

It is Dean Baker's belief that an enrollment of approximately one-third graduate students is the balance needed to keep a strong undergraduate program. He did say, however, that graduate students constitute one-half the total enrollment of some universities.

When asked about the research programs at MSM, Dean Baker replied that we have two types. The first is the departmental program. This is usually under the direction of one or two professors

and may consist of as many as six graduate and undergraduate students. This type of research is usually supported by some federal agency, such as the National Science Foundation. The second type is the interdisciplinary programs. This usually involves laboratory work with several professors from different departments working together. After the program matures, graduate students and even undergraduate students are involved.

Good research programs not only attract good staff members but also attract good graduate students. Much of the research is supported by federal funds, but

private industry has also shown great interest in the field of research.

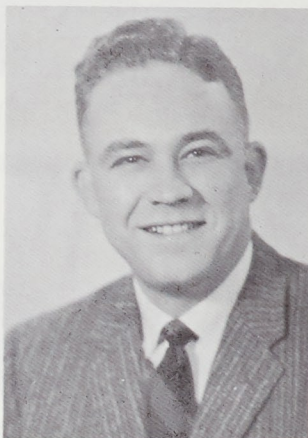
Dean Baker's interest in our research program is not merely a passive interest of an administrator but rather a personal one. While at the University of Kentucky, Dr. Baker did work on the heat transfer rates from evaporating fluids. He was also active in the Kentucky Research Foundation, which was an affiliate of the University of Kentucky that aided professors and students in acquiring funds for research.

New Humanities Dept. Chairmen

(Continued From Page 1) vate, where, in the course of his four-year tour of duty, he attained the rank of captain in the Quartermaster Corps.

Prof. Harris was a member of the faculty at the University of Missouri from 1946 to 1949, and

sition. In addition to teaching activities, Prof. Harris has written and published a number of papers in connection with his work in legal history. His work was recognized in 1959 when he received a Hill Foundation Grant to do re-



PROF. J. G. HARRIS

search at Harvard University on Justice Oliver Wendell Holmes.

Prof. Jim C. Pogue, who will be an associate professor of English, is currently assistant professor of English at Nebraska State College. A native of Texas, Prof. Pogue graduated from Osawatomie High School, Osawatomie, Kans. He received his B.S. and M.S. degrees from Kansas State College at Emporia, and is completing final work toward his Ph.D. at the University of Missouri.

Prof. Pogue was an instructor at the University of Missouri in Columbia from 1956 until 1963 when he assumed his present position. Among his recent publications is an article on "The Sources of 'The Two Gentlemen of Verona'" in the *Emporia State Research Studies*. He is a member of the Central Renaissance Association.

Dr. Charles Hatfield to Become New Head of Math Department

Dr. Charles Hatfield, chairman of the Department of Mathematics at the University of North Dakota, Grand Forks, has been appointed chairman of the Department of Mathematics at MSM effective September 1, Dr. Merl Baker, dean of the faculty, announced today.

Dr. Hatfield will succeed Prof. D. H. Erkiletian, who has served

years. In 1958 he also became director of the Academic Year Institute for High School Mathematics Teachers at the University of Minnesota.

A native of Kentucky, Dr. Hatfield received his A. B. from Georgetown College, Georgetown, Ky., his M. A. from the University of Kentucky, and his Ph. D. from Cornell University. He has done post-graduate work in numerical analysis at the University of California at Los Angeles.

In addition to his teaching activities, Dr. Hatfield has co-authored two papers on nonlinear functionals.



DR. CHARLES HATFIELD

as interim department chairman since the retirement of Prof. Rankin in 1963.

Dr. Hatfield has held his present position since 1960. Previously he had been on the faculty of the University of Minnesota Mathematics Department for 15

ROLLA DRIVE IN

SHOWS START AT 7 P.M.

Fri., Sat. May 15-16

'Escape From Zahrain'

Yul Brynner & Sal Mineo

—PLUS—

'30 Years of Fun'

Laurel & Hardy

Sun., Mon. May 17-18

'Papa's Delicate Condition'

Jackie Gleason & Glynis Johns

—PLUS—

'Beauty and the Beast'

Joyce Taylor & Mark Damon

Tues., Wed. May 19-20

DOLLAR A-CAR-LOAD NIGHTS

'The Yellow Canary'

Pat Boone & Barbara Eden

UPTOWN THEATRE

MOVIES IN CINEMASCOPE

Fri., Sat. Sun., Mon. May 15-18

Sunday Continuous from 1 p. m.

Admission: Adults 75c

Children 35c

WALT DISNEY PROGRAM

'The Incredible Journey'

Emile Genest & Sandra Scott

—PLUS—

'Grand Canyon'

Tues., Wed., Thurs. May 19-21

Admission: Adults 75c

Children 35c

Academy Award Winner for Best Actor

'Lilies of the Field'

Sidney Poitier & Lillia Skala

RITZ THEATRE

MOVIES ON WIDE SCREEN

Thurs., Fri., Sat. May 14-16

Saturday Continuous from 1 p. m.

This Program is for Adult Viewing

'A Farewell to Arms'

Rock Hudson & Jennifer Jones

—PLUS—

'Hand of Death'

John Agar & Paula Raymond

Son., Mon., Tues. May 17-19

Sunday Continuous from 1 p. m.

'Esther and the King'

Joan Collins & Richard Egan

—PLUS—

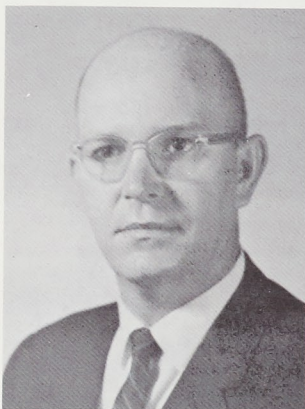
'Chartreuse Caboose'

Molly Bee & Ben Cooper

CLOSED

Wednesday & Thursday,

May 20, 21



PROF. JIM POGUE

of St. Cloud State College in St. Cloud, Minn., from 1949 to 1962 when he assumed his present po-

Civil Honorary Holds Initiation; Hears Northern

On Sunday evening, May 3, Chi Epsilon, National Honor Civil Engineering Fraternity, initiated seventeen men into its brotherhood as undergraduate members. These men are: Tom Basler, Philip Cowles, Wayne Fenner, Alan Harper, Philip Hoge, Joe Hohman, Darrell Nielsen, Jom Norausky, John Parker, Bill Savoldi, John Smith, Paul Hustad, Bill Link, Robert Nelson, Elwood Nickols, Dale Marshall, and Sherman Mills. Mrs. W. S. Frame, Chief Hydraulic Engineer at Bag-nell Dam, was initiated into Chi Epsilon as an Alumni Member. Mr. Frame graduated from MSM in 1923.

Following the initiation ceremony, a banquet was held at Baxters in honor of the newly initiated brothers. Honorable Eugene Northern, mayor of Rolla, gave a very enjoyable talk concerning the engineer's role in society after he graduates from school.

The graduating seniors of the active chapter presented a very fine barbecue set to Professor Paul Munger, faculty advisor, and his wife. The gift was presented for Professor Munger's untiring work with the MSM chapter during the past year.

FULLER JEWELRY

THE FINEST IN DIAMONDS

AND

JEWELRY

— MSM CLASS RINGS —

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Rolla, Mo.

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DRAFT BEER

703 Pine Street

RUDY'S BAR

BUDWEISER DRAFT

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VOLKSWAGEN
Sales and Service

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Greek Gods and Queens to Roll



Dean Wilson lights the torch which began the Greek games in '63.

DIONYSOS God of Wine

The son of Zeus is Dionysos, who is better known as Rich Terry. Dionysos, whose purpose is to give pleasure to mankind, provides pleasure for the leisure hours. Known sometimes as Bacchus, the god of Wine, he pro-



Rich Terry

vides refreshments for those who know thirst. With Dionysos' guidance, the Greek weekend is always a time of endless enjoyment.

HEPHASISTOS God of Fire

The artisan-god, Hephasistos, who can be found at the Kappa Alpha house, is answering to the name of Ed Schmidt. Ed is responsible for the engineer's ability

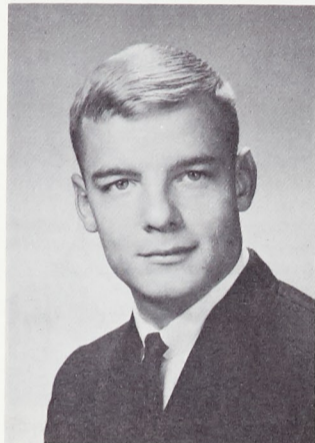
DELTA SIGMA PHI

Patty Shannahan is Delta Sigma Phi's Greek Weekend Queen candidate. Patty is a 5'8" brunette with dark brown eyes. She is a resident of Rolla, Missouri, and attended Rolla High School.



Patty Shannahan

of Hephasistos that the chariots to create new things important to



Ed Schmidt

our way of life. It is with the help are built for the chariot races. It was the revelations by Hephasistos

ALPHA EPSILON PI

Alpha Epsilon Pi's candidate for Greek Week Queen is the charming and effervescent Miss Linda Collier. Lynn is a native of Detroit, Michigan, but now resides in St. Louis, where she is pursuing an education in liberal



Linda Collier

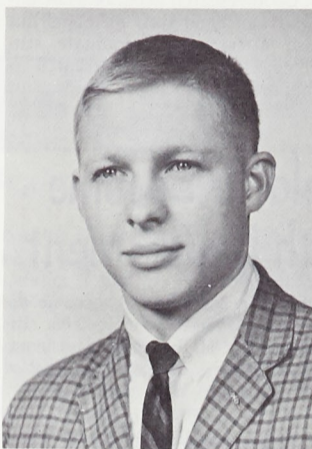
arts. Since we were not able to obtain Venus, the Greek goddess of love and beauty, as our candidate, we feel that we have chosen a very worthy substitute.

This 5' 1 1/2" brown eyed goddess possesses all the attributes of other girls, plus she is neat. Need we say more?

to man centuries ago that made possible the erection of the mighty fortress on our own campus known as the Rolla Building.

HERMES God of Safe Travel

The messenger of Zeus, is Hermes, who answers to the name of Hugh McCane. Hermes will watch over those traveling to the Grotto on Greek Day to ensure safe travel. He is also known as a diety of good luck needed by the participants in the Greek Day games.



Hugh McCane

HADES God of the Dead

The King of the Dead, Hades, who is now residing in the Sigma Nu House in the person of Lonnie Shalton, is the ruler of the House of Death, more commonly known in this area as Missouri School of Mines and Metallurgy. Here he

BETA SIGMA PSI

Beta Sigma Psi takes great pleasure in announcing their



Heath Niemann

Greek Week Queen Candidate, Miss Heath Niemann. Heath is well known around the house and hasn't missed a party weekend since she came to Beta Sig, a year and a half ago. She has been the pin-mate of Harold Meier since December, 1963.

This 5'4", blue-eyed blond hails from Hinsdale, Illinois, and is a sophomore at Lindenwood College in St. Charles, Missouri, where she is majoring in Art. Some of her many interests include dancing, swimming, tennis, the theater and modern art just to name a few.

Heath possesses the beauty,

reigns in all his glory for nine months out of the year for most of us. The only joy that can come from the "House of Hades" is the occasional bright periods highlighted by the festivities held annually in May, Greek-Weekend. Hades' greatest joy is the week of



Lonnie Shalton

finals, when those in his "House" are tortured mercilessly.

ZEUS God of the Sky and Weather

The mightiest and most powerful god is Zeus, who is better known around the Beta Sig house as Harold Meier. Zeus is the god

charm and character required of the Greek Week Queen. Beta Sigma Psi wishes her all the luck in the world to reign as Greek Week Queen.

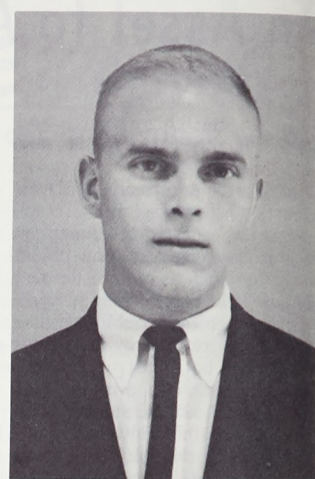
SIGMA TAU GAMMA



Mary Dougherty

The brothers of Sigma Tau Gamma take pleasure in presenting Miss Mary Dougherty from University City as their candidate for Greek Week Queen. This 19 year old beauty has blue eyes, blonde hair and a sparkling personality. Her vast experiences since graduating from St. Joseph's Academy in 1962 include one year at Washington U., a summer's tour of Europe, modeling for Monsanto and S. J. A. fashion shows, and is presently employed as an executive receptionist at Mississippi River Fuel. Mary, who is a rabid sports fan, also includes sailing as one of her hobbies.

Miss Dougherty's escort for the weekend will be Bill Link, a senior in Civil Engineering.



Harold Meier

of the sky and weather. Through his kindness, we at Rolla always enjoy the best weather possible. He is the "cloud-gatherer" who sends rain, lightning, thunder, and the bolt that blasts and destroys. The thunderbolt is his grandest and most frightening attribute. Zeus with his horrible weapon, the thunderbolt, is personified today as the instructor with his dread shotgun. Although Zeus may not be the most popular, he must be considered the one commanding the greatest respect.

TAU KAPPA EPSILON

Miss Linda Penninger is Tau Kappa Epsilon's candidate this



Linda Penninger

year for Greek Week Queen. Linda is a product of Mountain View, Mo., where she was a cheerleader and yearbook queen in high school.

Now living in St. Louis, Linda is employed by Owens-Illinois Glass Company in Clayton. Previously she attended William Woods College in Fulton and Miss Hickey's Secretarial School in St. Louis.

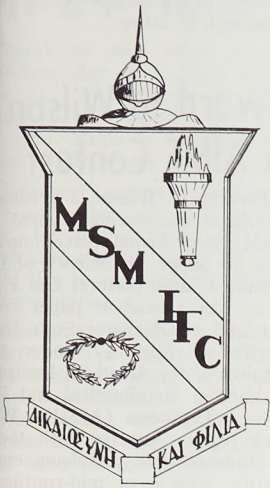
Linda's various interests include water sports, bowling, and horseback riding. Just turned 21, this "veteran" of several party weekends here at MSM will be escorted by Harb Henry, a junior in civil engineering.

SIGMA NU

Sigma Nu Fraternity takes pleasure in presenting Miss Janice Humble as its candidate for Greek Week Queen. This cute 18 year old Miss is a product of Springfield, Missouri where she attended Parkview High School and was president of her high school sorority.

Janice is presently attending

to Reign Over Greek Games



of Sigma Pi with her sparkling smile and warm personality.

With these qualifications, Leslee Hatcher will make an excellent Greek Week Queen and one long remembered.

THETA XI

Theta Xi Fraternity proudly introduces Miss Joan Eilene Sharp, as its Greek Week Queen candidate for 1964.

Joan is the auburn haired daughter of Mr. and Mrs. Wayne Sharp of St. Louis, Mo. She is five feet, one inch tall with sparkling blue eyes. "Joanie" graduated from Lutheran High School South where she was active in many student activities including numerous intramural and varsity sports. Now, a first year student at the Lutheran Hospital School of Nursing, she still follows her interests



Joan Eilene Sharp

in athletics and has won recognition in art, another of her favorite hobbies.

PI KAPPA ALPHA

Pi Kappa Alpha is proud to announce that Miss Jacqueline Lasater has been chosen to be their candidate for Greek Week Queen.

The charming personality of this 5' 5", blue-eyed brunette should make any Greek's heart melt.

Jacque's favorite activities include: swimming, bowling, ice skating, and dancing.



Jacqueline Lasater

Presently a resident of Liberty, Mo., she plans to attend the University of Kansas Medical Center in June to become an x-ray technician.

KAPPA ALPHA

Representing Kappa Alpha in the Greek Week festivities of

1964 is Miss Kathy Flood. Miss Flood, a sparkling 5' 3" blonde, has a very cheery and vivacious personality.

Her home is in St. Louis where presently she is a senior at Nerinx Hall Academy. Her hobbies include dancing and swimming. She recently choreographed a very successful musical at her high school. She has won numerous awards as a swimmer.

In the fall of this year she will attend Mississippi State College for Women where she plans to



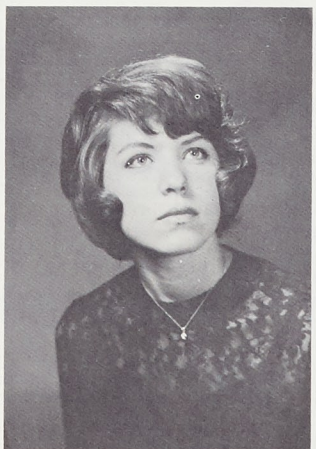
Kathy Flood

major in business.

The men of Kappa Alpha are proud to have Miss Flood as their candidate and think that she would make a fine queen.

SIGMA PHI EPSILON

Sigma Phi Epsilon is proud to have Linda Musgrove as our candidate for Greek Queen. Linda is a 5' 7", blue eyed brunette from Alton, Ill., has hobbies including water skiing, swimming, and bridge. She was employed as a receptionist at Germania Savings and Loan in Alton until moving to



Linda Musgrove

Rolla with her husband, Dick Musgrove. Linda is reigning "Sweetheart" of Sigma Phi Epsilon and is the choice of the chapter for Greek Queen.

PHI KAPPA THETA

Phi Kappa Theta proudly presents as its Greek Queen candidate, vivacious Miss Nancy Garidel.

A graduate of St. Joseph's Academy in St. Louis, this alluring 5' 4" blonde is presently in her sophomore year at Fontbonne College, where she is majoring in home economics and minoring in speech.

With her enchanting green eyes

and disarming smile this winsome lass finds herself at home in many activities, but her favorites are sewing, piano, and tennis.

The men at Phi Kappa Theta are confident that with her sincere, outgoing personality and



Nancy Garidel

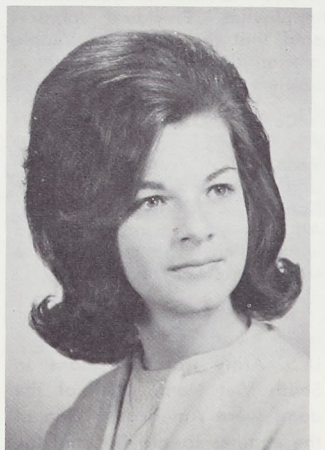
pleasing manner Nancy would make the perfect queen to reign over this year's Greek festivities.

ACACIA

Acacia presents Miss Marie Kraemer as their candidate for Greek Week Queen.

This pert Miss hails from St. Louis and is presently a senior in Southwest High School. She was football queen of DuBourg High School during her junior year.

Miss Kraemer's hobbies include dancing and swimming. She also



Marie Kraemer

does part-time modeling for Famous-Barr Co. Her escort will be Vic Marshall, a senior in Ceramic Engineering.

TRIANGLE



Janet Murphy

Representing Triangle at the Greek Day festivities is Janet Murphy, a C. E. senior, and the mother of two small children. Her main interests include bowling, sewing, and cooking.

Janet is active in the MSM Dames bowling league and has been a model for the Dames style show. She is from East St. Louis, Illinois, where she worked for two years as a secretary before her marriage.

LAMBDA CHI ALPHA



Betty Jennings

Lambda Chi's queen candidate is a petite blond bombshell. Miss Betty Jennings is majoring in nursing at the University of Missouri and is presently completing her junior year.

Her home is Florissant, Missouri, and she is a lover of sports, and Rolla party weekends.

We feel she would be the best possible choice of Greek Week Queen.



Chariots rounding a corner during the Greek games of '63.

Southwest Missouri State College and St. John's School of Nursing, and hopes to become a registered nurse upon graduation. When time permits you'll find Janice at the nearest lake or river enjoying her favorite hobbies of swimming and skiing.

The brothers of Sigma Nu feel



Janice Humble

that Janice, with her flashing eyes and radiant personality, has every qualification for queenship.

SIGMA PI

Sigma Pi Fraternity proudly presents Miss Leslee Hatcher, as its candidate for the 1964 Greek Week Queen. Leslee presently resides in St. Louis where she is a secretary for a recording company. In her 21 years, she has lived and traveled in many parts of the world. Last year Leslee attended Southeast Missouri State College where she majored in



Leslee Hatcher

dramatics.

This brown haired, hazel eyed beauty has endeared the brothers

Mid-Missouri Section Of ASCE Holds Meeting

Members of the mid-Missouri section of the American Society of Civil Engineers held their annual spring meeting on the MSM campus May 2.

The civil engineers met for afternoon and evening sessions with technical sessions in the afternoon for the men and a concurrent ladies' program for their wives.

Dr. Merl Baker, dean of the faculty of MSM, was the speaker for the evening banquet. His topic was "Trends in Engineering Education." J. Kent Roberts, president of the mid-Missouri section and professor of civil engineering at MSM, presided at the evening session.

Prof. E. W. Carlton, chairman of the Department of Civil Engineering, who has been a member of the ASCE for 35 years, was honored with the presentation of a life membership in the organization. Prof. Carlton, a past president of the mid-Missouri section, has been director of the ASCE and has served on numerous national committees.

Student awards for meritorious work in civil engineering were presented to Kenneth Buttry, MSM and Dan Simons, University of Missouri.

Speakers at the afternoon technical sessions were Paul F. Carlton, engineer with the United States Army Material Command, Washington, D. C., who discussed "Ground Mobility Research in the Army", and Thomas S. Abernathy, Pedersen and Associates, Webster Groves, who discussed "Engineering Community Planning". Kenneth Buttry, president of the MSM student chapter of ASCE, presided.

Papers were presented by

ASE Co-Sponsors Safety Check

An annual 10 point safety check was held May 4 and 5th under the sponsorship of the Society of Automotive Engineers and the Rolla Kiwanis Club. Under the direction of Sgt. Tinnen of the highway patrol and Prof. G. R. Baumgartner, faculty advisor to S. A. E. at MSM, ten different items pertaining to safe operation were checked on automobiles and trucks by the student members of S. A. E.

The 10 items checked included brakes, front lights and turn signals, rear lights, steering, tires, exhaust system, glass, windshield wipers, rear view mirrors, and horn.

The safety check was held during the morning and afternoon of May 4 and 5. A total of 780 automobiles and trucks were safety-checked during this two day period. Red and white safety check stickers were given to all vehicles passing the check on all ten points. If a vehicle failed to pass the safety check on all points mentioned, a check list with the dangerous conditions marked on it was issued to the driver. If these dangerous conditions were re-checked and okayed, a safety sticker was then given to the driver.

Sgt. Tinnen and Prof. Baumgartner wish to thank all students involved for making this safety check under the S. A. E. sponsorship very successful.

Charles Lyons, Springfield, and LeRoy Hulsey, Bourbon, students at MSM whose papers were judged best in recent student paper competition in the MSM student chapter.

During the afternoon ladies attended the Rolla Chamber of Commerce Maifest Style Show, followed by a tea at the Dean's Residence.

NEWS of the Week

Cuba: There are rumors among Cuban exiles that an attack on the Castro regime will take place soon. These rumors are supported by the finding by the Havana government of an arms storage area in western Cuba. The U. S. State department feels that Castro's security measures are too strong to attack Cuba at the present time. State Department officials said that the U. S. would do anything possible to stop any attacks before they begin.

Washington: President Johnson has said that he might call a special session of Congress after the political conventions if the debate over civil rights does not end soon. The President feels that there are several matters which need to be acted upon this year. These are the anti-poverty bill, the food stamp plan, the Appalachian program, medical care for the aged, and a pay increase for government employees. President Johnson said that the American people are entitled to action on these matters this year.

Concord, California: A Pacific Air Lines plane, bound from Reno to San Francisco, crashed and exploded violently near Concord, California last Friday. All forty-four persons on board were killed. The cause of the crash is not known.

Viet Nam: Fifteen persons were killed in the crash of a U. S. Army transport plane in South Viet Nam. Nine of the dead were Americans. One of the engines caught fire and the plane crashed shortly after take-off.

Washington: President Johnson has ordered the establishment of an agency to co-ordinate federal, state, and local action to assist rejected draftees in equipping themselves for a useful living. The aid consists of helping the men find jobs or of helping train the men for useful positions.

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Greek News

Bob Ricketts to Lead Kappa Sig

The Kappa Sigma Fraternity elected new officers this past week to preside during the fall semester, 1964. Bob Ricketts, the past treasurer, was selected as president, taking the place of retiring Paul Gerhardt. Homer Zeigler was elected vice-president and Jerry Siemens as master of ceremonies. Don Cooper will take over the finances of the fraternity as treasurer and Ron Reinke will continue his service as secretary. Ted Taylor and Dale Schaeffer will serve as guards.

St. Pat's and I. F. C. representatives were also selected, with Tom Van Rhein filling the first position and Gene Kalhorn, the second.

The brothers of Kappa Sigma are all behind their candidates for I. F. C. Man of the Year. The candidates are Paul Gerhardt, a metallurgist from Syracuse, New York, and Rich Schmidt, a nuclear metallurgist from St. Louis, Missouri.

Theta Xi Elects Henard President

The new officers for the coming fall semester were installed to head the Alpha Psi Chapter of Theta Xi. Dave Henard, who is a junior majoring in electrical engineering, was elected president. The officers who will be working with him are Bill McFadden, vice president; Jerry Lebo, treasurer; John Giltner, steward; John Hodge, corresponding secretary; Robert Robb, house manager; and Steve Eisert, scholarship chairman. Congratulations are in order to the past semester's officers for an outstanding job.

Last Sunday an outing was held

on the Little Piney. Plans are being made to have more outings next semester.

Friday night of Greek Week a band is to play for Theta Xi's beach party. Saturday night a record party is planned.

Acacia Selects Officers for Fall

The men of Acacia are proud to announce that the following men have been elected as officers for the fall semester.

Heading the list as president is Bruce Koopmann with Vic Marshall as first vice-president and Bill Woolery as second vice-president. Secretaries are Jim Gray as corresponding and Fred Rudolph as recording. Hal Garringer has been elected treasurer and Chester Hensen assistant treasurer. Harold Ruhlman was elected to the office of rush chairman.

Acacia will be losing 6 men through graduation. They are Bill Burchill, Leonard Roth, Glen Roth, Glen Vaughn, Gerald Orison, Charles Thornton, and Allen Hall.

Beta Sig Holds Fall Elections

Last week Beta Sig elected its officers for the fall semester. Heading the slate is Al Behring, the new president. Under Al, there is Norm Meyer, first vice-president; Al Kroeter, second vice-president; John Steinley, secretary; Gary Hoffstetter, trea-

sur; Dave Weinrich, corresponding secretary; Gary Lohmann, commissary; Jim Seward, rush chairman; and Bill Niedner, athletic manager. Beta Sig is looking forward to a strong semester with these men in office.

Award to Wilson In AIME Contest

Tommie C. Wilson, a graduate petroleum engineering student at MSM, won second place honors with his paper, "Efficiency of Internally Coated Natural Gas Pipe Lines," in a student paper contest held at Oklahoma State University on April 17 under the auspices of the American Institute of Mining, Metallurgical and Petroleum Engineers (AIME). Wilson's paper competed with those of students from petroleum engineering schools of mid-continent area, and he received several volumes of recent *AIME Transactions* and a pocket slide-rule as his award.

This contest is an annual affair sponsored by the Northern Oklahoma Section of the Society of Petroleum Engineers of AIME, and it is open to petroleum engineering students of MSM, Oklahoma State U., Oklahoma U., Tulsa U., Kansas State U., and Kansas U. The student papers are presented and judged in an afternoon session and the awards are presented at an evening banquet attended by the student contestants, faculty representatives, and Society of Petroleum Engineers members. At this year's banquet the principal speaker was Dr. John C. Calhoun, president, Society of Petroleum Engineers.

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Computer Center Runs On 24 Hour Schedule

There's no such thing as an eight-hour day or a forty hour week at the Computer Science Center of MSM, and that's the way Prof. Ralph E. Lee director of the Center, wants it.

The school's computers now operate an average of 70 hours a week, for instructional and research use, and Lee and his staff would like to see even wider use of the facilities.

Although the Computer Science Center is used primarily for school instructional purposes and for campus-based research, off-hours time is available to Missouri industries, and an experienced staff is on hand for consultation, Lee said.

An additional service is available to state high schools: weekend workshops for advanced high school mathematics students, designed to provide in a brief period an introduction to modern computation methods and an opportunity for actual problem solving.

About two-thirds of the computer time is now used for the prime purpose of teaching students at the School of Mines how to use the computer system and solve scientific and engineering problems. Unsponsored and sponsored research done on the campus have next call on computer time. However, the computers are available for commercial work occasionally on weekends, late night hours and especially during school vacation times such as summer and final examination week, Lee said. Consulting services of School of Mines faculty and staff are available to determine the problem, develop the program for the computer and analyze the results.

The recent addition of a new IBM 1620 Model II digital computer system quadrupled the work load capacity of the Center. The

new computer is capable of performing up to 7,142 additions or subtractions per second, and 50,000 logical decisions per second, and is about four times as fast as its companion, the IBM 1620 Model I, which has been in use at the Center since August, 1962. A General Precision LG P-30 and auxiliary data processing equipment are also available.

MSM has one of the most extensive instructional programs in computer science in the Midwest, with over a dozen regularly scheduled courses in computer science and information processing. The Computer Science Center has again been chosen by the National Science Foundation to host a Summer Institute in Computer Science for college teachers, one of three such summer institutes in the country.

In operation since February, 1960, the Center's work load has increased about 30 times in the past three years. In addition to instruction and research duties, the Center keeps track of enrollment, grades and such for over 3,000 students enrolled at the school, taking over many time-consuming chores.

The prodigious memory and lightning speed calculations by the computers are making possible tremendous advances in research in

all fields of engineering and science taught on the campus, feats not dreamed of even in the recent past, Lee said.

Among the fifty or so research projects in recent months have been included such problems as soil consolidation, heat transmission, antenna radiation, non-military use of atomic energy in excavation and many others requiring extremely complicated calculations. The computers are especially useful when applied to industrial problems requiring compilation of survey data, Lee said.

Eventually the school hopes to establish a science research and information center, in line with Governor Dalton's emphasis on research and development to attract new industry and business to Missouri.

Univ. Dames Sponsor Parisian Night; Have Style Show

The aura of Paris was present Tuesday, May 5 at the May banquet of the MSM University Dames. It was held in honor of the graduating wives, rather wives whose husbands are graduating either this semester or this summer. The Student Union Ballroom was decorated in a Parisian motif with a canopy outside the door giving the first hint of that city.

The banquet began with the invocation being given by Mrs. Dudley Thompson, after which

the food was served buffet style. The sponsors of the group who were present included Mrs. Merl Baker, Mrs. D. S. Eppelsheimer, Mrs. P. D. Proctor, Mrs. J. Kent Roberts and Mrs. Dudley Thompson. Mrs. D. S. Eppelsheimer is retiring as a sponsor, and was given a silver platter in appreciation for her years of service. Mrs. P. D. Proctor will be the new sponsor.

The PHT (Putting Hubby Through diplomas were presented to the graduates by Mrs. Merl Baker. Following this was the installation of the 1964-65 officers. They are: Pat Wilson, president; Fran Chaffin, vice-president; Sandy Davis, recording secretary; Kathy Jensen, corresponding secretary; Janet Whitten, assistant corresponding secretary; Myrna Duryea, treasurer; and Kathy Schroeder, assistant treasurer.

A style show of the newest spring fashions was presented by eight models chosen from the Dames group. The clothes modeled included one sport ensemble, one afternoon dress, and one evening outfit for each model. Carolyn Harper played the organ during the style show, as well as before the banquet began.

The entire evening was indeed a lovely one, and special thanks should be given to those responsible for the banquet. Myrna Duryea served as chairman, Judy Branum as decorations chairman, Darleen Dunker as program chairman, Louise Bogard as ticket chairman, Margaret Jatcko as style show chairman, and Kay Gregory as door prize chairman.

Sunday Movie

Sunday, May 17, 1964
2:30, 5:00, 7:30

"Come September" in color starring Rock Hudson, Gina Lollobrigida, Sandra Dee, and Bobby Darin.

Charming, song-filled, romantic comedy of a millionaire New Yorker who comes every September to rejoin his sweetheart and serenade her at his Italian villa. Unbeknown to him the villa is operated 11 months a year as a hotel, with his housekeeper pocketing the profits. Fun, laughs, and romantic complications ensue when he unexpectedly arrives in July!

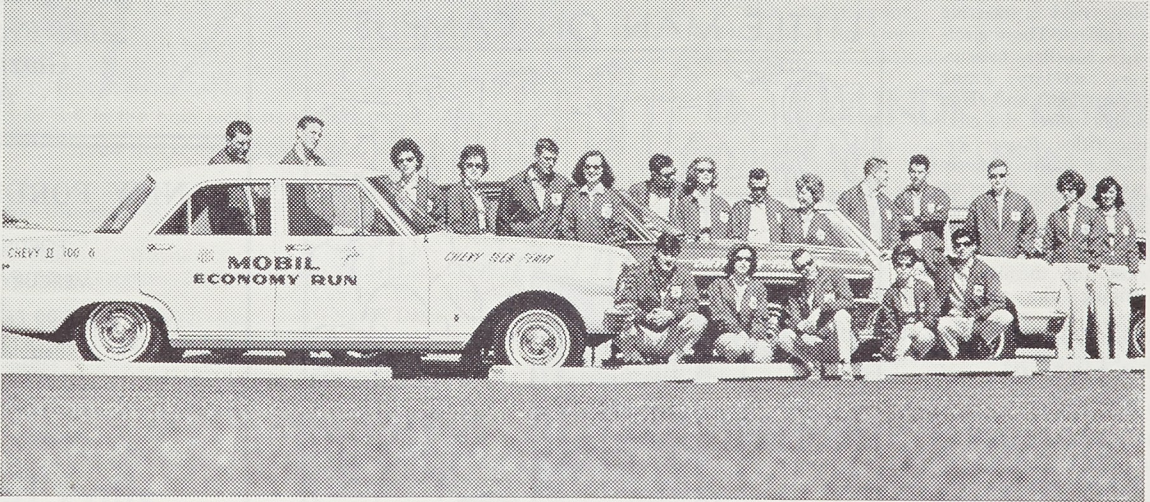
Phi Eta Sigma Elects Officers For Next Semester

Phi Eta Sigma national freshman honor fraternity elected officers for the fall semester of 1964-65 school year at the last meeting of the year, Tuesday, May the 5th. The following men were elected: president: Wendell Tucker; vice president, Charles Rowland; secretary, Ed McCullah; treasurer, Don Durand; historian, Ed Stephenson; and chapter correspondent, Don Scapero. Professor C. J. Grimm was re-elected as faculty advisor. All the new officers will be sophomores next year.

Alpha Chi Sigma Initiates Ten At Banquet

On the afternoon of May 10th, the MSM collegiate chapter of the Alpha Chi Sigma professional chemistry fraternity initiated ten new members, outstanding students in the fields of chemistry and chemical engineering. These ten are: Clark Allen, Richard Porter, Robert Wenom, Onur Egemen, Alva King, Mike Moran, Roy Brunson, John Roeseler, Dan Bennett, and Gary Dreher.

Sunday evening following the ceremonies, old and new members enjoyed a banquet at the Colonial Village. Present were advisor Dr. Wm. H. Webb, Mr. Edward Schneider, district counselor, and Mr. Bill Morris, former St. Louis professional chapter president. Mr. Schneider, an MSM grad who also counsels the Columbia and Washington University chapters, commended the MSM group on having kept the national efficiency trophy through out the biennial conclaves of 1960 and 1962. Paul Griffin will represent this chapter at the 1964 conclave in New York City this summer.



We'd like to say some nice things about America's young adult drivers

And we think we've got good reason! Last January, we selected twenty 18- and 19-year-old young men and women through the Junior Achievement program to drive our team of Chevrolets in the Mobil Economy Run, April 3-9. It was the first time any company had relied entirely on drivers with limited experience in this exacting competition.

We brought these young adults—most of them college students, some from the business world—to Arcadia, California, in late February. For six weeks, our expert teachers trained them in the skills of economy driving.

Then, on April 3, they set off on the Run, 3,243 miles from Los Angeles to New York.

We were going against the grain. It takes high proficiency to win the Mobil Economy Run. Competition is tough. Why did we rely

on drivers with such limited experience?

Chevrolet wanted to give the Chevy Teen Team a chance to prove in front of the nation that they and the 6.5 million licensed drivers in their age bracket are safe, sane people behind the wheel. We felt the Run offered a splendid chance.

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Team in the Mobil Economy Run did remarkably well compared with the class winners in overall miles-per-gallon figures. The final results are a tribute to the high degree of driving skill displayed by the Chevy Teen Team representing the youth of America.

No wonder we're proud of America's young adult drivers. We couldn't have a better reason.



The Cars Everyone Can Drive Economically

University of Hawaii Offers Travel Program

The 1964 Summer Travel Program to the University of Hawaii Summer Session is now accepting reservations. Dr. Robert E. Gralle, Executive Director, The Adler University Study Tour to Hawaii, announced today.

Crum Appointed Sales Manager Of R. H. Miller Co.

E. Jefferson Crum, a 1929 graduate of MSM, has been appointed general sales manager of the R. H. Miller Company in Homer, N. Y.

Crum will direct and coordinate company salesmen and field representatives as well as sales representatives in foreign markets. He joined the R. H. Miller Company as sales representative in 1951, and has represented the company throughout the Eastern United States.

Crum has had extensive experience in the steel industry. He joined Bethlehem Steel in 1929, after receiving his degree in metallurgy from MSM.

Nuclear Society Elects Officers

On May 5th the Nuclear Engineering Society held a meeting to elect new officers. Those elected were: Steve Mueller, treasurer; Paul Silvers, secretary; Frank Adams, vice-president and Don Doiron, president. After the elections a movie titled *Power Reactors-U.S.A.* was shown and refreshments were served. A spring outing will be held at Lions Club Park on the afternoon of May 22nd. Next year there will be a drive to boost the membership especially among the nuclear engineers.

"The Story of a Boaster"

(Continued From Page 2)

Mr. Tran Khanh Van, son of Mr. and Mrs. Tran Chi Hy, Saigon, VIETNAM, is at present a dual enrollment student in the Mining Department.

His present average is 3.9557/4.0000, the highest grade point in the senior class. He will likely be the valedictorian at the coming May commencement. He belongs to AIME, International Fellowship, Sigma Gamma Epsilon and Phi Kappa Phi.

He was given an ASTM Award. He has been awarded the Jane Lewis Fellowship at the University of California, Berkeley, Calif., a stipend of \$3,500, and the Campbell Fellowship at the Columbia University, New York, for the next school year, a stipend of \$3,650. He received assistantship offers from the University of Texas, Vanderbilt University, and the University of Denver. He was also given assistantships by Pennsylvania State University and MSM for the next school year. However, since his visa extension has been denied he will have to go back to his country to work for a period of two years. He plans to return to this country by 1966 to do his graduate work in rock mechanics at the Columbia University, New York.

Eta Kappa Nu Elects Officers For Fall Semester

At the May 7 meeting of Gamma Theta chapter of Eta Kappa Nu, the main order of business was the election of officers to serve for the fall semester of the 1964-65 school year. The newly elected student officers are: President, Donald Spirk; vice-president, Duane Hays; correspondent, secretary, David Bergt; "Bridge" correspondent, James Stangel; recording secretary, Larry Vaughn; treasurer, James Spencer; and lab insurance chairman Maurice Brubaker. George McPherson was elected as the chapter's new advisor. These new officers are congratulated on their election and are wished the greatest success in their new positions. A world of thanks is extended to the retiring officers, and especially to Leland Long who has ably served in the capacity of advisor for the past several years.

Coeds Picnic Is Last Function

A group of nearly twenty MSM "Coeds" and their escorts enjoyed a picnic at Meramec Spring State Park on Sunday, May 3rd. Those attending enjoyed the springtime beauty of the park before traditional picnic refreshments were served. The outing was the last function of "Coeds" for the 1964-65 school year.

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MINERS

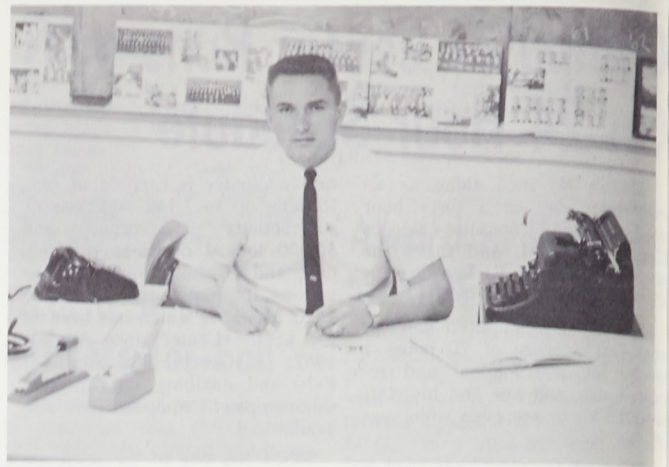
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Gary Koch, who was recently elected editor of next year's Rollamo, prepares bids for next year's yearbook. Bill Norfleet was elected business manager.

James C. Pool Takes Second in Oratory Contest

James C. Pool, a junior in the Ceramic Engineering Department at MSM, won second place in the annual student speaking contest sponsored by the American Ceramic Society. Speaking on the subject "Internal Friction of Glasses

and Ceramics," Mr. Pool successfully competed with representatives from thirteen other schools. This contest is held in conjunction with the annual convention of the American Ceramic Society and provides an opportunity for students studying Ceramic Engineering to gain valuable experience in presenting papers before a technical society. MSM has been well represented in the past several years having placed second in 1958, second in 1959 and second in 1961.

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MINER SPORTS

FRIDAY, MAY 15, 1964

THE MISSOURI MINER

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MINERS FIFTH

Gardner's Bulldogs Carry-Off Sixth Straight Track Title

Totaling almost twice as many points as their nearest competitor, the Northeast Missouri State cindermen have carried-off the 1964 MIAA Outdoor Track title, for the sixth straight year. The host Bulldogs picked up firsts in eleven of the seventeen events and broke four records. Central Missouri State edged SMS of Springfield for the second spot, scoring 56 points as compared to 41½ for the Bears. Southeast Missouri State finished in the fourth position with 24½ points, and the Missouri Miners followed in fifth with 14½. The squad from Maryville took to the cellar, scoring only 8 points in the two-day series of events.

Coached by Kenneth Gardner, the NEMO Bulldogs fulfilled the predictions of the so-called "experts" and went even farther as they placed men in one of the top three positions in every event except the 100-yard dash.

Schneider High Point Man

Kirkville's Ed Schneider was the high point man for the meet, and he smashed one record during the action, tying another. In winning the half-mile run, Schneider topped an old mark of 1:56, set by Tom McKee of the 1956 Springfield team. The record now stands at 1:54.8. Schneider tied his own 1963 record in the mile run (4:20.1).

Also outstanding this year was Willie Weaver from Warrensburg. Weaver set records in the 100-yard dash (time of 9.5 seconds) and the 220-yard dash (21.3 seconds).

Miners Break Three Records

Coach Gale Bullman's squad from MSM broke three school records while at Kirkville. Bob Erxleben ran the 120-yard high hurdles in 14.8 seconds, only four

tenths of a second behind Norm Taylor of NEMO. Tom Miller didn't place in the top five positions for the 100-yard dash, however his time of 9.9 seconds tied the school mark. The mile relay team composed of Ed Tharp, Bob Grime, Fred Vogt, and Tom Miller compiled a time of 3:24.1 to set a school record.

Tom Miller came in fourth in the broad jump, with Clinton of Kirksville taking first. The MSM 440-yard relay team also took fourth, as did Bob Grime in the 440-yard dash. Erxleben's school

mark in the high hurdles warranted third place, and Jim Hood tied with James Wheeler (SMS) in the pole vault.

The final standings in last year's outdoor meet were the same as this season's, point distribution being essentially the same. The same schedule of events included several new changes over the previous meets. Since this is Olympic Year, the Triple Jump was added, the 440-yard relay replaced the 880 relay, and the 330-yard intermediate hurdles replaced the 220-yard hurdles.



Records fell in the high jump as well as many other events.

1964 MIAA OUTDOOR TRACK RESULTS

Shot Put—1. Dennis Sissom, N. E. Mo. Distance—48 feet, 9¾ inches.

Broad Jump—1. Wayne Clinton, N. E. Mo. Distance—22 feet, 3 inches.

Discus Throw—1. Dennis Sissom, N. E. Mo. Distance—154 feet, 8 inches.

440-Yard Relay — 1. Central Mo. (Glynn Lamb, Willie Weaver,

Frank Smith, Dan Jones.) Time—42.5.

Mile Run—1. Eddie Schneider, N. E. Mo. Time—4:20.1.

440-Yard Dash—1. John Taylor, Central Mo. Time—49.5.

100-Yard Dash — 1. Willie Weaver, Central Mo. Time—9.5. Record.

120-Yard High Hurdles — 1. Norman Taylor, N. E. Mo. Time—14.4.

880-Yard Run — 1. Eddie Schneider, N. E. Mo. Time—1:54.8. Record.

Javelin Throw — 1. Jim Muddock, S. W. Mo. Distance — 220 feet, 3 inches. Record.

220-Yard Dash — 1. Willie Weaver, Central Mo. Time—21.3. Record.

330-Yard Intermediate Hurdles — 1. Wayne Schroeder, N. E. Mo. Time — 40.5.

High Jump—1. Dave Taylor, N. E. Mo. Height — 6 feet, 5¾ (Continued on Page 10)

Kappa Sigma Takes Intramural Softball Final

Kappa Sigma Fraternity walked off with the intramural softball championship last week, defeating Tech Club in the final playoff game 5 to 2. Two-hundred and sixty intramural points go to Kappa Sigma for their perfect 5-0 league record, and their mark in the semi-finals and finals.

Lambda Chi Alpha downed Sigma Nu in the consolation final 8 to 2, thereby gaining third place and 240 points. Army Association surprised many fans by chalking a 5 win-1 loss record,

and the Baptist Student Union took sixth place with a 4-1 final.

Top Shooters at Tech Club

Intramural Rifle competition was held during the past month, and now that the smoke has cleared, Tech Club has been announced the champion organization. Amassing a team total of 801 points, the men of Tech Club have been awarded 78 intramural points. Kappa Alpha totaled 3 points less than the champs, following up in the second position with 75 IM points. Theta Xi took third, Beta Sigma Psi ended up in fourth, the Fifty-Niners fifth, and Sigma Pi bagged the sixth slot.

The aggregate high individual score was produced by Hessler of Sigma Phi Epsilon, with 278 points. Christianson was runner-up with his score of 276. Rath of Beta Sigma Psi won the prone position award with 100-4x. The kneeling position was taken by Carter of Theta Xi (93 points), (Continued on Page 10)

Intramural Athlete Award Goes to Lohmann

In a statement released by the Missouri School of Mines Athletic Department, it was announced that Gary Allan Lohmann of Beta Sigma Psi was elected Intramural Athlete of the Year by the intramural managers at their annual meeting on May 11, 1964. This is an annual award presented by the "M" Club through the Intramural Department.

Gary, a senior majoring in Metallurgy, participated in the following intramural sports: football, basketball, swimming, volleyball, softball, track, and rifle. At all times he has showed outstanding sportsmanship and he is very deserving of this achievement. The winner for the past two years

has been "Butter" Koenig of Triangle Fraternity.

During the same meeting, Triangle was named recipient of the Intramural Consolation Trophy, also awarded each year. It is given to the organization which has not won a trophy in any major sport throughout the year. Factors considered in the selection of the team are the efficiency of the manager and the number of sports the team has participated in during the entire year.

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Miner Rugby Squad Falls To League-Leading Ramblers

By Ed Skwiot

Ramblers Primus, the top team in the Missouri Rugby Football Union, defeated the Miners in an exciting contest last Sunday. Primus acquired their points on a try and a penalty kick in the second half of play. This game completed the season for the Miners.

The final standings show the Miners in the first half of finishing positions, which is a performance that has completely shocked the competition. The "young and green" MSM team defeated teams that have been established for many years. Bud Murphy, one of the coaches and also a player for the team, feels that the greatest asset the Rugby Miners possess is their tremendous spirit. Something made up for inexperience during the first season of play, and most men connected with the sport agree that it was the Miner's will to win.

An overall summary of the Rugby, with accompanying photo-

graphs, will appear in the next issue of the *Miner*. Plans for next season include the addition of two or three new Rugby teams. Many more men will be needed so now is the time to start thinking about trying out.

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MIAA Tennis and Golf Finals Complete Season

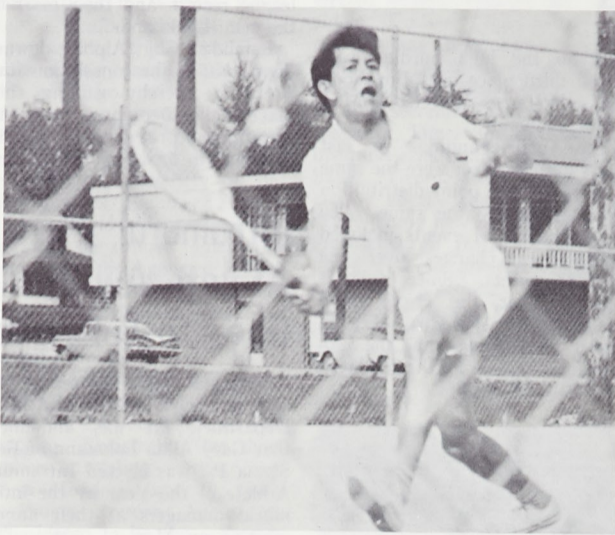
For the past two years, Southeast Missouri State has won the team title in the Missouri Intercollegiate Athletic Association tennis tournament. This year, Cape Girardeau's score of 20 was second only to that of Kirksville's, as the Bulldogs came out on top with a total of 24 tallies. SMS and Maryville tied for the third spot with 5 apiece, and the Missouri Miners found fifth place as their resting spot, scoring 3 points. Central Missouri State rounded out the list with only a single point.

The tournament was held at the Miner campus this year, due to the increased facilities on the intramural fields. According to the officials, the MSM courts are supposedly the best in the MIAA conference.

Central Missouri State and Southwest Missouri State each totaled 775 strokes to win the MIAA golf championship tournament held at Kirksville last weekend. Missouri Mines and Northeast Missouri State both scored 791 to produce the second tie of the series, this one being for the third place trophy. Southeast Missouri State totaled 822 for fifth, and Northwest Missouri State finished sixth with 855.

Bob Caine of Springfield won the medalist honors of the circuit,

over Hubert Jones of the Silver and Gold squad. Both men completed 36 holes with 148 totals, however Caine won the top honors with his victory in a one-hole playoff.



Kim Thein stretches to snag a "hot one."

MIAA TENNIS TOURNAMENT

SINGLES—No. 1 singles, Ray Hinds, Cape; No. 2, Frank Gantt, Kirksville; No. 3, Ben Harris, Cape; No. 4, Wendell Kilian, Kirksville; No. 5, Dwight Guerant, Cape.

DOUBLES — No. 1, Dennis Mueller and Frank Gantt, Kirksville; No. 2, Ben Harris and Wendell Kilian, Kirksville.

SIDELINES

by BRUCE T. GREGG



For quite some time now many of the students have been in favor of varsity baseball but in the past we have had neither the facilities nor the room. However there will be an appropriation for this varsity sport next spring, and an all out effort is being made to include this in next years program. The team will probably start out playing ten games. As it stands now in this area Kirksville and MSM are the only two schools that don't include this sport on the varsity teams.

Triangle took first place again this year in the intramural Tennis Doubles Championship. Their players were Irwin and Green. Sigma Nu came in second with Rueh and Huegerich capturing the runner-up position. Triangle received 39 points for their victory.

Another of MSM's most popular sports is intramural golf which has been in our intramural program for over thirty years. Besides the participation by the players, from a spectators standpoint there are quite a few in attendance. It is noticed that approximately one third of the student body is connected with this intramural sport in one capacity or another. This is better participation than most other schools in this area receive. In fact next year there might very well be a change in the scoring because of the increase in contenders. This year's medalist in IM was Larry Parks of Lambda Chi Alpha followed by Warren of Tau Kappa Epsilon as runner-up. The team champion was Lambda Chi Alpha with Pi Kappa Alpha as runner-up. First place team received a total of 78 intramural points for their victory.

I would like to thank those individuals who sent in their correspondence to this column. Anyone who wishes to propose suggestions or comment on items of interest may do so by writing to this column in care of Missouri Miner, MSM, Rolla, Missouri.

INTRAMURAL SPORTS

(Continued From Page 9)

and the standing went to Christianson with 88.

Bickel copped the horseshoes singles championship for Tech Club, and the team of Schaefer-Kiez topped the entrants in the field for the same organization. The eating club receives 78 more intramural points for this sport, 75 going to Sigma Nu for the second place award. Pi Kappa Alpha and Kappa Sigma tied for third, and Phi Kappa Theta swept fifth place for 6 points. Army once again made a strong showing by snapping-up the sixth spot. Britton (Sigma Nu) was the runner-up in the singles division, and the Howard-Sharp combination of Kappa Sigma took the runner-up position in the horseshoes doubles tournament.

Tech Club has virtually cinched the intramural championship as they have a total of 1780.25 points, the nearest teams being Lambda Chi Alpha and Sigma Nu in a tie for second (1579.5 points apiece). Kappa Sigma is in fourth place with 1525, and the Engineers Club is at the fifth mark with 1420.5.

INTRAMURAL POINT STANDINGS

Team	Points
Tech Club	1780.25
Lambda Chi Alpha	1579.5
Sigma Nu	1579.5
Kappa Sigma	1516.25
Engineers Club	1420.5
Phi Kappa Theta	1321.25
Sigma Phi Epsilon	1254.0
MRHA	1161.5
Pi Kappa Alpha	1160.5
Fifty-Niners	1145.0
Sigma Pi	1081.0
Tau Kappa Epsilon	1059.75
Triangle	1043.5
Prospectors Club	1040.25
Kappa Alpha	1032.0
Beta Sigma Psi	950.25
Sigma Tau Gamma	916.0
Delta Sigma Phi	896.5
Theta Xi	718.25
Army Association	712.75
Acacia	680.25
Westley Foundation	627.0
Baptist Student Union	578.75
Shamrock Club	526.75
Theta Chi	502.25
International Fellowship	138.25

Silver and Gold Close Track Loop With 4 Win-3 Loss Record

By Ches Vogt

Last weekend brought the close of the MSM 1964 track season. The Miners finished the season with the MIAA Outdoor Conference meet, held at Kirksville, placing fifth. This was equal to their showing in the Indoor Conference Meet, held at the beginning of the season, and also equalled the spot in which they finished in the 1963 Indoor and Outdoor Conference Meets.

This year, as in the past, Kirksville completely dominated the conference meets with very little threat of the remaining five schools overtaking them.

Looking at the overall 1964 made a good showing by taking

track season the Miner cindersmen four of their seven dual meets, for a winning record, as they proved superior to Drury, Principia, Evangel, and Westminster while losing to Wheaton, Washington University and Springfield.

The top men in individual point totals for the season were Bob Erxleben, with his total season

ben, Lewis Koederitz, and Tom Miller) topped the school and field record with a time of 45.6 seconds, in the Evangel meet. Bob Erxleben bettered the high hurdle mark with a record time of 15.3 seconds, while competing against Washington University.

Three MSM field records were broken this spring. William



Transfer student Bob Erxleben scored 120½ points for Miner squad, setting an all-time record.

record of 120½ points, followed by Tom Miller, Bob Grime, Ed Tharp, Joel McKell, Skip Damotte, and William Ravens.

Several MSM school records were broken during the season. The 440 yard relay team (composed of Bob Grime, Bob Erxle-

Ravens set a record of 40 ft. 4¾ inches, while opposing Wheaton. Adare of Wheaton recorded a record time of 42.1 sec. in the 330 yard intermediate hurdles, and Nelke of Washington University lowered the 880 yard mark with a time of 1:58.3.

MIAA TRACK RESULTS

(Continued From Page 9)

inches. Record.

Triple Jump—1. Mark Pittman, Central Mo. Distance — 45 feet, 5½ inches.

Mile Run—1. Floyd Waddle, N. E. Mo. Time—9:23.8. Record.

Mile Relay—1. Kennett, Mo. (Jim Taylor, Bob Frost, Gus Walker, Charles Taylor.) Time — 3:21.4.

Pole Vault — 1. Dan Young, S.W. Mo. Height — 13 feet, ¾ inch.

FINAL INTRAMURAL POINT STANDINGS IN MAY 22 MINER

Sports in Review

By Wayne Laufer

The Missouri School of Mines swimming team closed its season on February 22 with an impressive 5 out of 8 record. This was a considerable improvement over last year's 1 win, 3 lost mark. The highlights of this season are reviewed in this article.

The Miners started their season in good fashion, drowning Westminster 67-27 on December 12. Horner set an MSM record in the 200-yard freestyle, Krueger in the 200-yard backstroke, and Virtue in the 500-yard freestyle.

On January 11 the MSM swim team hosted St. Louis U. and was beaten in a close contest, 51-44. The Miners led throughout the first nine events, but SLU tied the score at 44 apiece in the tenth event and then swept the final swim. Norm Nuss, high point man with 19, bettered Horner's recent MSM record in the 200-yard freestyle with a time of 2:03.

A week later MSM downed Westminster at Fulton, 68-26. Nuss and Rich Virtue set school records, the former in the 100-yard freestyle, and Virtue in the 500-yard freestyle. Nuss led both teams with 11.75 points.

The Miners then boosted their record to three wins and one loss with a 61-32 triumph over Hendrix College. Nuss produced another record with a time of 2:18.2 in the 200 individual medley. A close decision was dropped to Principia College, 56-39. The lead changed

hands several times, but the opposition sewed it up by winning the last two events. Nuss set another school mark with a time of 1:48.9 in the 160 individual relay.

The Miners dropped their second straight with a 32-63 defeat at the hands of Indiana State, a top ranking team in the nation. I. S. took 8 of the 11 scheduled events. Ken Krueger smashed the previous school record in the 200-yard backstroke, and Nuss totaled 8 points for the MSM high.

The final two wins were against Louisville U. and Central Missouri State. The Miners grabbed nine events against Louisville, with Nuss leading the 60-35 victory with 11.75 points. In the final meet, the MSM group turned tiger and tromped Warrensburg by the score of 60-35. Tom Jones led the team with 11.75, and Norm Nuss set a record in the freestyle event.

A look at the year's totals show that the Miners outscored their opponents by 106 points, 431 to 325. In addition, they set seven MSM records and four pool records. Norm Nuss was the high total man for the season with a sum of 72.25. Following him was Kent Horner with 58 points, and then Tom Jones with 57.5. Ken Krueger picked up 52.25, and Rich Virtue 47. In reviewing the season, and also knowing that many lettermen will be back, the MSM swimming team and its supporters can look forward to next season with eagerness.