



23 Oct 1959

The Missouri Miner, October 23, 1959

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Parents Day Biggest Yet Record 5650 Attend Game

The annual Parents Day held at the Missouri School of Mines and Metallurgy on October 17, 1959, proved to be one of the biggest since the custom was originated by the school. Registration of Parents at Parker Hall in the morning found a large group present to receive their Parents Day cards and to take the guided tours of the campus. Many parents on the guided tours around the campus could be heard commenting about the large amount of construction underway on the campus and the vast improving effect it would have on the college as a whole. Some of the parents who

were present for the last Parents Day, were surprised to find more of the buildings not completed and being used by the students.

Afternoon activities for Parents Day was the football game between the Missouri School of Mines and Cape Girardeau. One of the largest crowds ever on hand in Jackling Field saw the Miners come out on the short end of the string as they were defeated by the Cape team. Half time found MSM and Cape Girardeau bands performing in a well organized show for the parents.

Many fraternities found large crowds at their houses for the lunch and dinner meals as a large

number of parents came down to see their sons and to see the different houses on campus.

The banquet held for parents, sons, and teachers at the Rolla High School Cafeteria found a good crowd present. Entertainment for the banquet was supplied by the Missouri School of Mines Glee Club under the direction of Professor John Brewer.

It is hoped the vast increasing rate of students attending the School of Mines will make the next Parents Day even bigger and more enjoyable for the parents and their sons and also for the school.

Missouri Atomic Energy Commission Gets Phelps County Representative

Richard H. (Dick) Ichord, Speaker of the Missouri House of Representatives, announced today the appointment of Phelps County State Representative Gene Sally to Missouri's new Atomic Energy Commission which was created by the 70th General Assembly.

In appointing Sally to membership on the commission, Ichord said that Sally has established an honorable record for himself during his first term in the State Legislature and that his contributions to the AEC will add much to its success.

The commission will be composed of five representatives, five senators, and seven members from the community at large who are leaders in the fields of law, industry, medicine, agriculture, education, insurance, and labor, to be appointed by the governor.

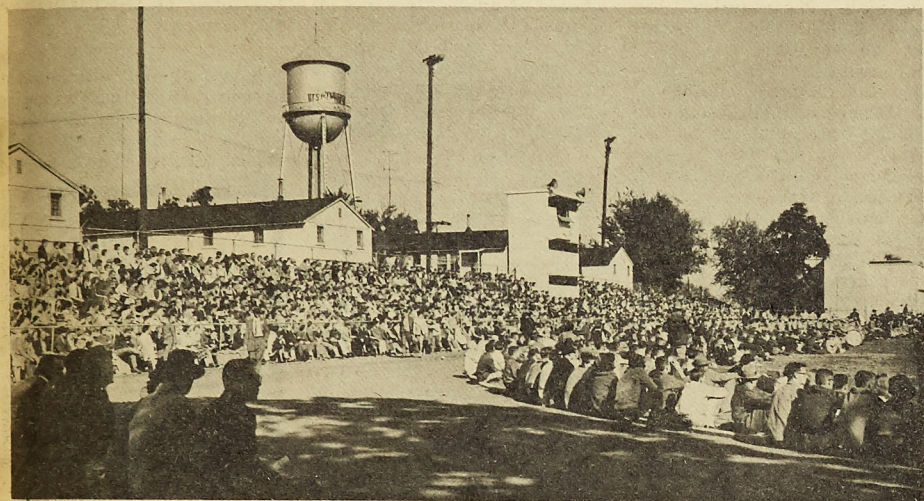
The Atomic Energy Commission of Missouri is charged with studying the need for legislation

in the field of nuclear energy and the progress and status of nuclear energy. A full report of its activities is to be reported to the governor and the general assembly in January of each year in which the general assembly meets in regular session until the act expires on January 15, 1965.

Ichord said that Missouri has the opportunity to go to the forefront in this very important field with a committee of this type. Many states, because of complex problems of the subject matter, have shied away from the field altogether.

The Missouri School of Mines will have the first operating nuclear reactor in the State of Missouri. Approximately \$100,000 will be spent for the construction of a building to house the reactor which will be an "open-pool" type 25 feet underground. Scientific experts have assured that there will be absolutely no danger in

(Continued on Page 3)



Record 5650 Crowd for Parents Day Game

MISSOURI SCHOOL OF MINES & METALLURGY

THE MISSOURI MINER

VOLUME 46

ROLLA, MO., FRIDAY, OCTOBER 23, 1959

NUMBER 6

Freshman Passes All Exams Offered For 21 Credits

A June graduate of a Kansas City high school who entered the University of Missouri School of Mines and Metallurgy here as a beginning freshman this semester, made himself a second semester freshman with 21 hours of college credit within the first week of school. He is now well on his way to becoming a sophomore before the semester ends.

Donald E. Burton, 18-year-old son of Mr. and Mrs. C. M. Burton, 5714 Prospect Ave., Kansas City florists, achieved this jet-speed academic record by passing college course examinations offered to any entering freshman. Burton is a graduate of Kansas City Southeast High School, and entered

the School of Mines and Metallurgy with three scholarship awards.

With his 21 hours of credit, Burton has not only completed all his first semester requirements, but has 4 hours of finished second semester work.

The University offers all entering freshmen the opportunity to obtain credits by examinations in courses in which they have specially prepared themselves in high school or by outside study. Other students at the School of Mines in the two years this program has been in effect have acquired credits in three courses and up to 13 hours, but Burton is the first to make a clean sweep of all subjects

offered, according to Dean Curtis L. Wilson.

"Burton's achievement, while a personal triumph, reflects also the excellent training which his high school and other schools in Missouri are offering to those students who demonstrate a capacity to do superior work," Dr. Wilson said.

The courses in which Burton acquired credit include: first semester mathematics, 5 hours; first semester chemistry, 5 hours; engineering drawing, 2 hours; descriptive geometry, 2 hours; English, 3 hours; and military science, 4 hours. He made A grades in 12 hours and B in the other 9, which

(Continued on Page 3)

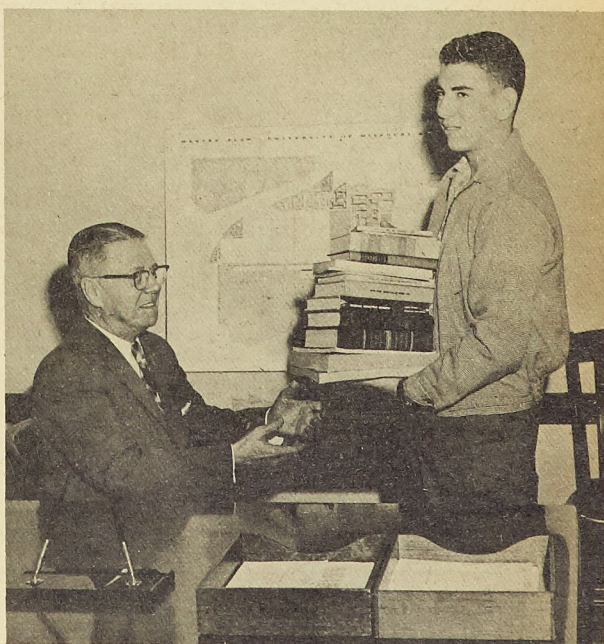
Lincoln Arc Welding Foundation Presents Design Competition Awards

The \$5000 in annual awards made by The James F. Lincoln Arc Welding Foundation, Cleveland, Ohio, in its design competition for college engineering undergraduates this year went to 66 students in 21 colleges and universities. The welded designs, made to improve or lower costs of machinery and structures, ranged from a redesign of the traditionally cast iron fire hydrant to an imaginative "hyperbolic paraboloid roof structure." Scholarship funds honoring the recipients of the main awards were presented to the schools in which they were enrolled: The University of Minnesota, University of Illinois and New York University.

The first award of \$1250 went to Seppo J. Viikinsalo of Parkville, Minnesota, for his design of a fire hydrant redesigned for welding. Dr. Richard C. Jordan is the head of the Department of Mechanical Engineering at the University of Minnesota in which Mr. Viikinsalo was registered. He will administer a scholarship fund of \$1000 presented to the department by the Lincoln Foundation. A total of eight students at the University of Minnesota received awards in the competition, marking the best performance by students of any one school.

A University of Illinois civil en-

(Continued on Page 3)



Donald E. Burton of Kansas City, right, 18-year-old freshman at the University of Missouri School of Mines and Metallurgy, hands a pile of freshman textbooks to Dr. Curtis L. Wilson, dean of the School. Burton will not need them. He passed examinations in all these courses and obtained 21 hours of college credit during the first week of school. That is enough credits to qualify him as a second semester freshman with 4 hours additional on his second semester work. Donald intends to major in nuclear science at the School of Mines and Metallurgy.

THE MISSOURI MINER

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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Letters to the Editor

To the Editor:
**THE TRUTH SHOULD
ALWAYS PREVAIL**

Dear Sir:

Last Friday most of the Cuban students felt angry, surprised and disgusted by an article published in The Missouri Miner under the title of "Cuban Co-eds Find U. S. Colleges More Informal." The reason of such feelings was that for the first time since we remembered, political affairs appeared in the school paper and even more the persons interviewed were not telling the truth. We considered our duty to clear out those false statements.

First of all the article referred about many Cuban schools still closed on account of the revolution. That's not true, all schools including the University of Havana, with thirty thousand students, are open. Furthermore three hundred new primary schools started after Castro took over.

Terroristics tactics used by Dr. Fidel Castro? That is the biggest lie ever heard. Dr. Castro has been always against such mean procedures. Those who used them weren't Fidel's followers.

Of course, that the police had resigned when Batista fled away; they were the murderers and torturers that supported the dictator against the will of the people during seven years. They couldn't stay any longer with a government run by the people. Revolutionary police handle the situation, therefore none of Batista's criminals was killed by any mob. Fair trials were held according with the Revolutionary laws, so anarchy didn't prevail as the article reads.

"We were against Batista and his policies," the co-eds said in the last paragraph; this is very far from the truth. We still don't understand how they dared affirm that.

If Castro would have done "too

many wrongs and not enough rights" the ninety per cent (statistics) of the population would not support him as they do. We are pretty sure that this ninety per cent is not an uneducated mass as they told the reporter.

Our writing has been made with the only purpose of informing The Missouri Miner's readers about the real political situation of our country.

Signed:

Rene J. Leonard
Jorge Grau
Juan Leu
Jan Liao
Juan G. Cardona
Guillermo Dumois
Arturo Vidal

To the Editor:

While dining out this past weekend, I was served on the attached place mat. I was rather disgusted to see the title "Rolla School of Mines" on the small map in the lower right hand corner.

I feel that this matter should be reported to the Student Council for action concerning the correct usage of the name of the school.

Yours truly,
Joe R. Aid

Dear Sir:

I listen to the M. S. M. Hour every week and think it is a very fine show, except that at the beginning of every program they start off with the song about the "Rolla Miners." I think the words ought to be changed to "Missouri Miners." I think that more students feel the same way I do about it. We are proud of our school and we wish to have it called by its right name, and the only way we will get that done is to call it by its right name ourselves.

I sincerely hope this letter will be read by the right people, and they, in turn, will do something about it.

A Miner

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Missouri School of Mines PAST, PRESENT, FUTURE

Attens-hutt!!! This is going to be a regular feature from now on! We think you'll like it. There will be a bit of history, a bit of current events, and a shot into the future in each one of these reports, so FORWARD — MARCH! And here we go!!

From out of the past—

Did you know that instruction in Military Science and Tactics began at MSM in January 1873? The Morrill Act of 1862 specified that each land grant school must have military training, and that is why we have ROTC here today.

In compliance with this obligation, the University of Missouri at Columbia established a military training battalion during the Civil War. Then, when the Missouri School of Mines was started, it was decided that one company of the battalion would be set up in Rolla. Consequently, in January 1873, Major J. W. McMurray, of the University, came to Rolla to inaugurate the program. He remained for two weeks giving instruction in military drill and making temporary appointments for the first organized company. This company became known as Company "G" of the University Battalion and cadet officers were selected by the faculty.

Into the present—

Today, we have the largest Cadet Corps in the history of MSM, almost 1,500. We still continue to be the largest Engineer ROTC Unit in the United States and furnish more officers to the

Army Corps of Engineers each year than any other single source in the nation!

Apart from the formalized ROTC Training, the Military Department supports two large campus organizations; the Pershing Rifles and the Society of American Military Engineers, each containing over 100 members. The Pershing Rifles is commanded by Cadet Billy M. Gaede. Under his leadership, they shook the stadium last Saturday with a shot fired from a cannon which the PRs designed and built right here on the campus. Then, they thrilled the crowd with a drill team of selected cadets who were put through their paces by Cadet Edgar D. Crooks.

The S. A. M. E. is a professional society, headed by Cadet Ronald P. Carver, which combines the interests of the military and civilian engineer. Their monthly meetings provide a well rounded program that supplements the classroom instruction from all departments. This week the local chapter is sponsoring a field trip to a flood control project near St. Louis.

And into the future—

FLASH! The date for the Military Ball has been set for December 12th! Cadet Colonels James P. Kauffman and William F. O'Neal are co-chairmen for the gala affair this year and promise us a good show! Watch for details in future issues!

Richard Lee LeGrand

Richard Lee LeGrand, Bachelor of Science in Mechanical Engineering, January, 1959, is now employed by the United States Gypsum Company in the Kansas City, Missouri, plant. Richard had a wonderful opportunity with this company to use his Mechanical Engineering training.

The United States Gypsum Company has apparently discovered his engineering ability and his talent for leadership.

According to Mr. Thomas M. Beers, Personnel Superintendent of the Kansas City plant, Richard has been given ten years promotion in responsibility in the nine months he has been working there. He has been responsible for the expenditure of \$1,500,000.00 for plant expansion.

Individual effort with a reward to come next day, next decade, or in a lifetime, are what keep things going at a lively pace, a fact acknowledged by all straight thinkers.

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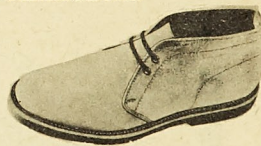
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Freshman

(Continued from Page 1)

should make him one of the scholastic leaders in the class when the semester ends.

Salutatorian of his 1959 graduating class at Southeast, Burton took a "solid" high school program, including four years of mathematics, four years of English, four of social studies, four of drawing, four years in ROTC, two years of science and two of language.

He received the Phi Beta Kappa scholastic award for his achievements in high school, and he was given a University Curator's Award for freshman enrollment. He was also awarded the General Motors Scholarship at the School of Mines and Metallurgy. He passed up an appointment to West Point, and nomination to the Air Force Academy in favor of nuclear engineering studies at the School of Mines.

And yet he was definitely not the bookworm type; his extra-curricular record is about as impressive as his scholastic. He was on the ROTC drill team; was captain of the rifle team; lettered in marksmanship; was lieutenant colonel of his high school unit; and was on the all-city division staff for two years. He has a long list of awards in ROTC.

He was also a member of Beta Club, a national honorary society; member of the National Quill and Scroll Society; the Science Club of America; the Latin Club; the Chess Club; the Round Table (student council); and the Junior Red Cross Disaster Group. And he worked on the school newspaper.

Burton has a summer's experience in research, having worked after graduation in the research laboratories of the Cook Paint & Varnish Company in Kansas City under the program of the Kansas City Science Pioneers, Inc.

He says he hopes to go on to a doctorate degree.

Missouri AEC

(Continued from Page 1)

involved to the public in any way. Strict standards of safety are required by the Atomic Energy Commission. The AEC will provide almost \$300,000 to the school for the construction of the reactor itself.

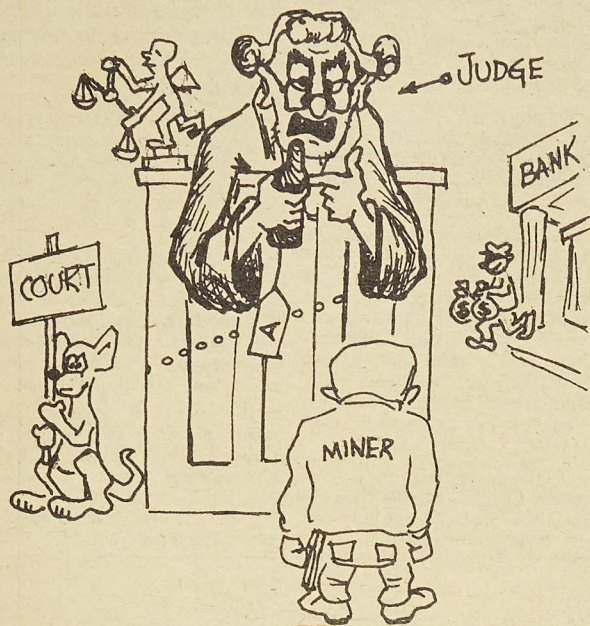
The Missouri School of Mines has virtually pioneered in this area as they have already graduated two students with master degrees in the nuclear field.

A visiting clergyman conducting exercises at Hobart College used the six letters forming the name of the institution for the headings of the subdivisions of his extended address—"H" for Holiness; "O" for Obedience; "B" for Beneficence; "A" for Adoration; "R" for Righteousness; "T" for Triumph. He gave fifteen or twenty minutes to every subject.

As they made their weary way for the exit, one student said to another: "Darned good thing we are not attending the Missouri School of Mines and Metallurgy."

This item will be the last of a series on the subject of British toilet paper. Last fall in a room at Grosvenor House in Pall Mall, which our friend Ralph Stickle occupied, the bathroom had available on spools side by side two kinds of paper. One was the finest type of American paper; the other was typical English, that is, says Stickle, "about as useful for the purpose as a rubber bathmat."

NOBLE MEN ABOUT THE TOWN AS SEEN BY JOE MINER.....



Math Gems

Problem No. 8: Three cyclists A, B, and C, ride at rates of 639 yd., 615 yd., and 603 yd. per minute, respectively. They start together in the same direction around a circular track, one quarter of a mile in circumference. How long after they start and at what part of the track will they next be together?

Problem No. 9: If a 4-inch auger hole is bored diagonally through a 12-inch cube, what will be the volume displaced, the axis of the auger hole coinciding with the diagonal of the cube?

ANSWERS TO LAST WEEK'S PROBLEMS

Prob. No. 3: There are 4,970 balls in the pile.

Prob. No. 4: t equals 8. Nine multiplied by any number always gives an answer, the sum of whose digits is equal to a multiple of nine.

Prob. No. 5: Each made a tour of the world yearly for fifty years. One going the easterly route and the other the westerly route.

Prob. No. 6: He gave as change 2 silver dollars, a quarter, 2 dimes and . . . a two and one-half dollar gold piece.

Prob. No. 7: None. If it was a hole the dirt would not be there.

—(From *Mathematical Nuts and Wrinkles*)

Scholarship Awards

(Continued from Page 1)

Engineering student, James Galinsky of Hammond, Indiana, received the second award of \$1000 for his design of a welded hammerhead support. Head of the Department of Civil Engineering at the University is N. W. Newmark. His department received a \$500 award to provide scholarships honoring Galinsky.

The third award of \$500, made for the design of a welded aluminum hyperbolic paraboloid roof structure, was received by Robert Silman of Middle Village, New York, who made his design as a student in the Civil Engineering Department of New York University. The department head, James Michalos, also received a scholarship fund of \$250.

Schools whose students made note worthy performances in the competition were: University of Minnesota with eight awards, University of Wyoming with eight awards, Case Institute of Technology with four awards, State University of Iowa with four awards and Cornell University with three awards.

It's a sign of something, possibly old age, when you can toss aside the current magazine, turn off the lights, walk away from the television, and go to bed at 9:30 on a quiet evening.

At last! A breakfast drink you can keep in your room

More vitamin C than orange juice. New instant TANG is the breakfast drink you can keep right on your bookshelf—because TANG keeps anywhere without refrigeration.

Make as much as you want, whenever you want. Just mix with plain cold water—nothing to squeeze, nothing to unfreeze.

Drink TANG every morning and get more vitamin C than orange or grapefruit juice gives you. Plus vitamin A. Tastes real good, too.

Today's assignment: get TANG!



WANTED: Situations and gag lines for our two campus characters (above). Must relate to TANG. Will pay \$25 for every entry used.

Address: TANG College Contest, Dept. GRM, Post Division, Battle Creek, Michigan. (Entries must be postmarked before Dec. 15, 1959.)

Acacia Members Claim The Title of Casanovas

This is one of the hardest jobs I have ever encountered; trying to write something interesting about a bunch of Casanovas. This article could be more aptly called, "The Knights of the Country Road Set." Nothing much happened during the first of the week but over the weekend many things transpired.

Beast decided that it was so easy to break a thumb that he would try and break his cast. Which he did. Physics class is where Beast met his Waterloo. Seems as though he fell asleep and after a short cat-nap was aroused by the most horrible stench he had ever smelled. After all possible areas had been checked Beast came to the conclusion that there must be a dead mouse inside his cast. He now has the "Sweetest smelling thumb this side of the Rolla dump."

Add to the rolls of the Juans Club, Monk and Bubbles. Bubbles now carries an ample supply of coins with which to seduce the younger generation, but Jim is really feeling better these days. Last Monday he turned 21 and ever since then he has looked like he has turned 21 nightly.

Lambda Chi to Play Tennis Semi-Finals

This week was a busy time around here as many hours were spent cleaning the house in preparation for Parents Day. A special thanks should be conveyed to Sam for a very enjoyable meal Saturday afternoon. From all reports the parents enjoyed the festivities very much.

The Lambda Chi Nine stretched their winning record five after downing Wesley Friday night. We are now in the final play-offs after taking first place in League III. In tennis we have advanced to the semi-finals with a sound victory over Tech. Club.

Say, what has happened to the project of painting the chapter room and the light out by the parking lot? Or are we going to have our own sound room with a big "one control" stereo system. The idea sounds very good and all; but where are we getting all this extra money? Before stereo, I feel that a cut in house bills is in order.

Brother Moss says that there will be a knife throwing party every Friday night. However, a five dollar admission fee will be charged. Also there has been a request handed me which states that Brother Homan should be given a lower bunk for his own health.

Sig Ep Invades Bear Tracks' Thursday

Last Thursday evening the Sig Ep herd, fifty strong, marched jubilantly from the intramural field to Bear Tracks. The occasion, why of course the winning of our league in flag football. The championship lies ahead with games against Lambda Chi and Kappa Sig, two tough teams winning their respective leagues. In our last contest, retired gridiron stars "Hurricane" Halbrook, and "Roughhouse" Rogers also "Lover Boy" Laurensen downed their grid grubs in helping the big team on to victory.

Parents day was an enjoyable

Last weekend we had a very enthusiastic group of parents at the house. Approximately 50 parents were here and enjoyed the fine cooking of our cooks. One of the highlights of the weekend was the picnic held at Meremac Springs after the football game. Our illustrious House Manager succeeded in burning 90 per cent of the wieners while everyone else froze. The pledges under Beasts heavy cast did a real fine job of cleaning the house for parents day. On Saturday afternoon prior to the football game our Mothers Club was organized. Elected officers of this club are:

President, Mrs. Henry Shuremeyer; Vice-President, Mrs. George Grizio; Secretary, Mrs. V. M. Stevenson; Treasurer, Mrs. Charles McKean.

Last Sunday night Myron seemed to be having a simple triangulation problem. What? Happen? Did you forget all you knew about Plane Surveying?

And so as we close the annuals of the Acacia lonely hearts guest book we hear a cry from the second floor, "Turn off Bubbles' machine."

occasion for all who attended. It was gratifying to meet and greet some of the parents of our freshman pledges, but where were their older sisters, younger sisters, shucks, just trying to add to our social rush program. The only sad note of the day was the Miner's loss to Cape, well, you can't win them all.

That night a slight uprising, riot or war broke out, whatever the case may be, well anyhow it started around two thirty in the morning, all conniption broke loose, mattress, pillows, etc., started flying. Was the pledge class at it again, none seem to know how the whole thing started. Oh, hum, well back to bed.

Congratulations to Brother Merryman who was recently pinned to Miss Marianne "Blossom" Murphy.

Blue Key to Name A Man-of-the-Month

As part of its program to serve on the campuses of the United States, Blue Key tries to initiate worthwhile projects periodically. This fall's Blue Key organization had adopted a plan to name a man-of-the-month on the MSM campus. This man would be picked by the organization on the basis of a point system. The point system will give points for being a member and also, for being an officer of campus organizations. These points are allotted on a basis of the time and effort required to be an active member of various organizations. An effort is being made to make this choice on the basis of activity, not on scholastic or athletic achievement.

Blue Key's purpose in such a choice is to honor the man who gives unselfishly of his time and effort to forward the aims of his campus organizations. This, Blue Key feels, fills a gap in line of deserving men. We have both scholastic and athletic means of bestowing honor on the outstanding men in these fields, but no such means has existed before in honoring those who fill the campus leader capacity.

PKT Downs Engine Club and Tech Club

Engine Club and Tech Club were defeated by our football team 15-12 and 27-14 respectively. This finished our football for the year giving us seven wins and one loss. Brother Gunther went into the ping pong finals last week, beating Classes of Kappa Sig, 21-10 and 21-16 in the semi final match.

We were very pleased to have our national spiritual advisor, Father Weisenburg, visit the house last Thursday. Everyone enjoyed meeting and talking with him.

Parents Day brought many of the mothers and fathers to the PKT house, to look things over. Well over 200 parents and guests were on hand for the turkey dinner Saturday. The mothers club presented PKT with their annual check. This gift represents many hours of work by the mothers who raise the money through card parties, a rummage sale, etc.

On the lighter side, our go cart enthusiasts have returned from the race track. At last count only two carts were left running.

Swell Parents Day Turnout at Sig Tau

The Parent's Day turn out here at the Sig Tau Manor was very good with around fifty parents and friends showing up for the tour of the campus and the football game. Some of the girls turned out also, so all in all the weekend turned out great.

It happened to Pat, it happened to Al, and now it's happened to Jim. Brother Fish has a new motto "Never trust a Mary Ann!" Don't feel bad Jim, it happens to the best of us.

We won our last game of the season last week nosing out Pi Kappa Alpha by a score of 15-13. Congratulations to Brothers King and Pfefferkorn for running in the cross-country. They both made it across that good ole finish line.

We hear that Brother Coyle missed out on quite an evening in Columbia. Too bad R. T., those big beautiful blonds are too few and far between. Brother Erickson has had a sly grin all week, so I guess he liked your date.

Entertainment Poll of '59-'60 School Year

Through the past years, students at MSM have been able to see and hear such performers as Louie Armstrong, George Shearing, and Duke Ellington by attending the general lectures.

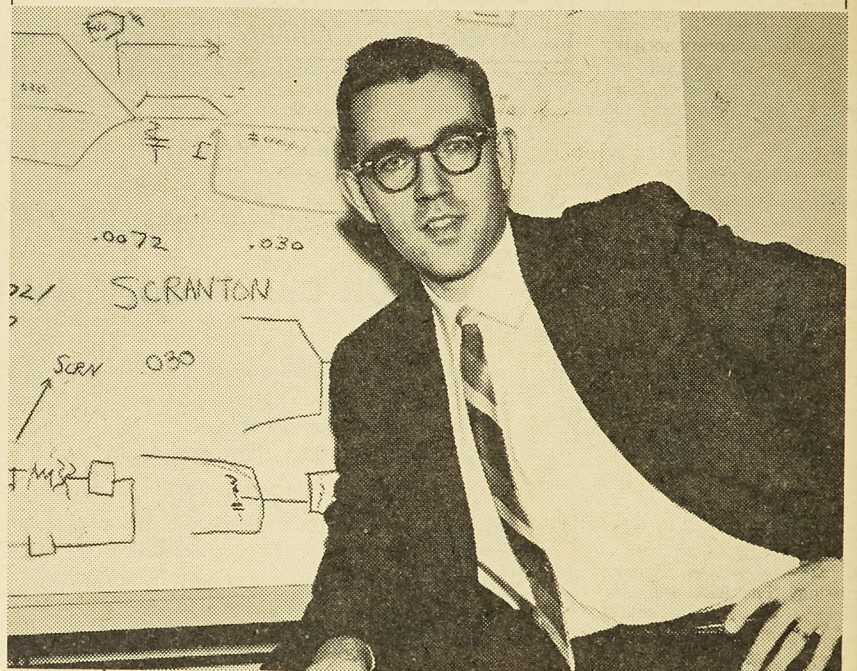
The Student Council Committee on the General Lectures and Professor Lloyd want to try to secure the type of program that appeals to the student body. In order that this can be done, Tau Beta Pi each year runs a poll to see what the average Miner wants. This year's poll is on this page. Why don't you help pick the General Lectures by voting?

TAU BETA PI—GENERAL LECTURE POLL

Indicate 1st, 2nd and 3rd Choices
Deposit Ballot in boxes in Rolla Parker, Old Chem, Ch. E., M. E. E. E. and Civil Buildings

1. ☐ Lectures
2. ☐ Classical Music
3. ☐ Popular Music
4. ☐ Plays and Drama
5. ☐ Films
6. ☐ Dance Troupes

A Campus-to-Career Case History



"I found I could be an engineer —and a businessman, too"

William M. Stiffler majored in mechanical engineering at Penn State University—but he also liked economics. "I wanted to apply engineering and economics in business," he says, "and have some administrative responsibilities."

Bill got his B.S. degree in June, 1956, and went to work with the Bell Telephone Company of Pennsylvania at Harrisburg. During his first two years, he gained on-the-job experience in all departments of the company. Since June, 1958, he's been working on transmission engineering projects.

Today, Bill is getting the blend of engineering and practical business-engineering he wanted. "The economic aspects of each project are just as important as the

technical aspects," he says. "The greatest challenge lies in finding the best solution to each problem in terms of costs, present and future needs, and new technological developments."

"Another thing I like is that I get full job-responsibility. For example, I recently completed plans for carrier systems between Scranton and four other communities which will bring Direct Distance Dialing to customers there. The transmission phase of the project involved almost a half-million dollars—and it was 'my baby' from terminal to terminal."

"Telephone engineering has everything you could ask for—training, interesting and varied work, responsibility, and real management opportunities."

Bill Stiffler and many college men like him have found interesting careers with the Bell Telephone Companies. There may be a real opportunity for you, too. Be sure to talk with the Bell interviewer when he visits your campus—and read the Bell Telephone booklet on file in your Placement Office.



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Miners Are Downed by Strong Cape Indians, 30-7

by Jerry Luecke

"Always a bridesmaid, never a bride," has been the story of the Miners' football fortunes for the past several years in the MIAA conference. In '57 and '58, the Miner-Cape contest decided the conference championship, and this year, barring a major upset, will probably do the same as the Cape Girardeau Indians whipped the Miners, 30-7, before an overflow Parents Day crowd.

The game started auspiciously enough for the Miners as they banged their way into the lead, 7-0, on their first offensive series. The drive was launched from the 37 yard line and the Miners swept downfield 63 yards for the TD. Tom Cooper set up Pat O'Mealy's six-yard scoring end sweep by spearheading the Miners' overland drive. Pat O'Mealy booted the extra point, making the score 7-0, Miners.

The Miner defensive unit held the visiting Indians in check on their first offensive series, but their work was soon undone as the Indians recovered an offensive fumble on the Miners' 34. From that point, the men from Cape wasted no time knotting the score 7-7, with quarterback Dwight Nichols going over from the five yard line for the TD. Nichols then split the uprights with his kick, tying the score.

TOUCH DOWNS by TOM DUNN

THIS WEEK'S PREDICTION — Close game — 28-21, with the Miners on the top half.

Wiegard (No. 19) is continuing to add to the Miners' capabilities as he had an average (before last week's game) of 5.61 yards per try (31 tries) to place seventh in the Conference, and scored 14 points in conference play to place second behind Kirksville's Dale Mills.

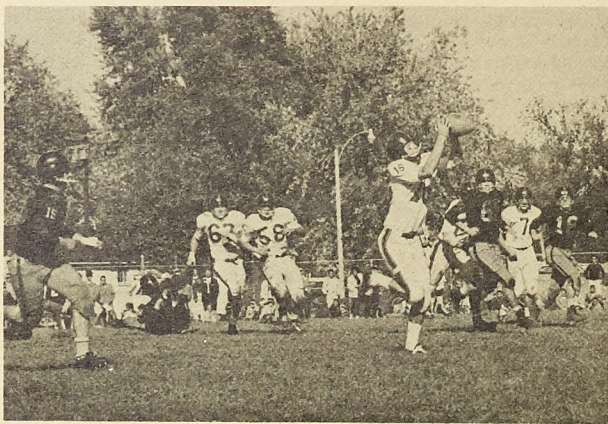
Hillmeyer (No. 50) turned his ankle at the Cape game and may not be available to fill his all-important place in the offensive line-up tomorrow at Kirksville. Meier (No. 64) may also be out with an injury. Kamicar (No. 13) is out for at least the next few games with an injury.

KIRKSVILLE PLAYER TO WATCH—Dale Mills (No. 31), who in the Kirksville-Springfield game scored four TD's and added 260 yards on to his rushing to give him a total of 573 yards and set him up in a good position to defend his 1958 rushing title for NCAA small college teams.

MINER PLAYERS TO WATCH—Wiegard (No. 19), Deranja (No. 18), Cooper (No. 14), Wheeler (No. 12), and O'Mealy (No. 15).

The cheerleaders deserve credit (more than we're giving), thanks, and support from the student body for making an effort to add the much needed "spirit" to the MSM spectators.

THEY CAN'T DO IT ALONE, it was very obvious that they were not getting this support at the Cape game from the student body, the same group that griped because we didn't have any cheerleaders. It seems to me that the student body, in general, if they really want cheerleaders, would get out and support their every effort. So to reward the cheerleaders and cheer the team to victory, let's all plan to support and follow the cheerleaders at the next home game.



Interception

For the remainder of the first half, Cape stymied the Miner offense stopping Gale Bullman's men on the ten yard line and the 26 yard line on two separate drives, and halted another by snaring a Wheeler pass. At the end of the half, the score remained tied 7-7.

The second half action was completely dominated by the Indians. The Indians drove 40 yards for a TD early in the half with fullback Charles Matthews getting the score by driving over right end. The point after was good and Cape led 14-7. The Miners then drove downfield trying for the equalizing touchdown, but were again stymied on Cape's ten yard line.

Cape scored again early in the fourth quarter, with Nichols scoring his second touchdown of the day. The kick was no good and the score read 20-7, Cape. This Indian TD was set up by an intercepted pass on the Miner 20 yard line.

The Miners then fumbled again deep in their own territory, and the "Injuns" in the true spirit of the day, promptly took advantage of the Miner miscue and made the score 23-7 by kicking a field goal from the 18 yard line.

Cape then added insult to injury, as they won the battle of the second strings by pushing across another touchdown in the closing

(Continued on Page 7)



Miner fumble recovered

Miners to Take on K'ville

The Miner game this Saturday is with Northeast Missouri State at 2:00 Saturday, October 24, at Kirksville.

Undeclared this year, Kirksville has a record of 5-0, against the Miners' 3-2. In their last game Kirksville beat Warrensburg, coming from behind in the third quarter 17-0 and scoring four touchdowns in the fourth quarter to win 26-17. They have also beaten St. Ambrose, St. Joseph (Indiana), Washburn and Springfield.

Kirksville had been using a run-

ning attack from the wing T, but at Warrensburg they took to the air with gratifying results. They have a line averaging 199 pounds, 13 returning lettermen, and, they say, the best freshman squad they have ever had. Another notable fact is that they are a fourth-quarter ball club. In every game they have been behind in the third quarter and have gone ahead to win in the fourth.

The main asset to the Kirksville squad is left halfback Dale Mills, No. 31, a 5' 9" 175-pound junior. He was second in the na-

(Continued on Page 7)

RESEARCH ENGINEERS:

THE MEN BEHIND THE HEADLINES

NAA's ON-CAMPUS INTERVIEWS OCTOBER 30



EARLY EVERY DAY you read of another advance in science... whether it's a space vehicle streaking toward Venus or a submarine gliding beneath the polar ice.

These are the events that make headlines... but even as they are announced to the world, engineers and scientists are planning new and greater achievements — and research shows them the way.

Scientific research always has had an important role at North American Aviation. Today, research projects are underway at more than 185 laboratories in the six North American divisions. They encompass the full scope of modern science.

Is air stiffer than steel?

Not all research has the headline appeal of a space ship or nuclear power. For example, research engineers at the Autonetics Division, which designs and manufactures space-age navigation systems, found new and different ways of building rotating bearings... and found that air is stiffer than steel for some purposes. Improved gyroscopes and magnetic recordings were important results of this research.

A cigarette's place in research

Even the ordinary cigarette has a role in scientific research. Scientists at the Aero-Space Laboratories, an organization within North American's Missile Division, use a burning cigarette in a still room to illustrate the difference between laminar flow and turbulence in the boundary layer, the very thin air space that lies along the outer skin of an aircraft or missile. This research is part of a program to find ways to protect missiles, satellites and space ships from burning when they re-enter the earth's atmosphere.

Toward the conquest of Space

The Rocketdyne Division has designed and built the bulk of today's operating hardware in the high-thrust rocket field. Explorer I, America's first satellite, was boosted into orbit by a Rocketdyne engine... and three-fourths of the power for Able IV-Atlas—man's first attempt to reach toward another planet—comes from liquid-propellant engines designed and built by Rocketdyne. Researchers at Rocketdyne delve into

the chemistry of propellants, the physics of engine components and what happens within them, ignition of fuels, combustion of fuels, and the transfer of heat.

2,000 mph manned weapon systems

The Los Angeles Division is the home of next-generation manned weapon systems—the Mach 3 B-70 Valkyrie and F-108 Rapier—and America's first manned space vehicle, the X-15. Research engineers in this division investigate manufacturing techniques, conduct studies in aerodynamics, materials and processes, and thermodynamics. They also work with physiologists, biotechnologists, biophysicists, and psychologists to solve design problems concerning human capabilities and limitations that arise from modern weapons and research systems.

Building better Navy aircraft

Analysis of aircraft carrier operation is a major research project at the Columbus Division. This division designed and built the Navy's T2J Buckeye jet trainer and the Navy's supersonic, all-weather A3J Vigilante. Research activities are diverse here—from how to illuminate an aircraft cockpit to developing unmanned vehicles and systems to perform within the earth's atmosphere.

Developing the peaceful atom

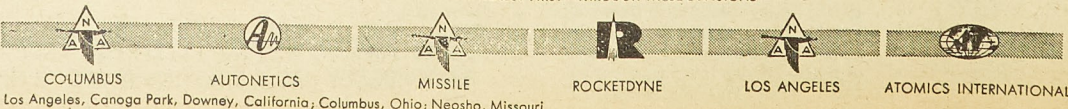
The work at the Atomics International Division of North American is part of a large national research effort aimed at the peaceful atom. Success in the development of economical power from the atom depends on thorough knowledge in every phase of atomic power systems and their materials of construction. Atomics International research reactors are in service in Japan, Denmark, West Germany, West Berlin, and Italy.

Opportunities for college graduates

Today at North American there is outstanding opportunity for young engineers who want to share the unusual creative problems that face science. You can rapidly build a sound engineering career by working on the top-level projects now underway. Visit your placement office where you'll find all the facts about a challenging and rewarding future with North American.

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Cross Country Champs Defeat Westminster

The Parents' Day festivities were not without a Miner victory, for despite the gridiron loss to the men from Cape Girardeau, the cross country team came through with a win over Westminster. When you look at that score of 23-27, don't make the mistake of a certain radio announcer last fall, because in this sport the lowest score wins.

The 3.156 mile distance, extending around the outer boundary of the M. S. M. golf course is climaxed by a half-mile uphill finish that makes it the toughest course in the conference. Cloudy skies, cold weather, and soggy ground hampered the times but the Miner squad, coached by Nick Barre, took seven of the ten first places and the meet.

Mike Vancil, although falling short of his course record of 17 minutes and 29 seconds, took first place with 18:04—a complete half minute ahead of the nearest contender. Wentz and Schoen took second and third to give Westminster a temporary advantage that was lost when the next five places fell to MSM.

The first ten places were as follows:

| Pos. | Runner—School | Time |
|------|---------------------|-------|
| 1 | Vancil—MSM | 18:04 |
| 2 | Wentz—Westminster | 18:34 |
| 3 | Schoen—Westminster | 18:41 |
| 4 | Erickson—MSM | 18:52 |
| 5 | J. Brown—MSM | 18:57 |
| 6 | J. Heller—MSM | 19:10 |
| 7 | L. Sheets—MSM | 19:22 |
| 8 | Sunkel—MSM | 19:27 |
| 9 | Douglas—Westminster | 19:36 |
| 10 | J. Stark—MSM | 20:15 |

Westminster also placed men in the 11th, 12th and 13th spots.

High heels were invented by a woman who had been kissed on the forehead. — Christopher Morley.

K. A. Pledges in Intramural Tennis

This year an unusual situation has developed in intramural tennis. Two boys, both freshmen, both K. A. pledges, and both from North St. Louis County are the remaining participants in the winners bracket of the tennis singles. Don Mason, a civil from Ferguson, and Jim Hammack, an e. e. from Jennings, have been tennis partners all semester so their forthcoming match ought to be one of the finest exhibitions of good tennis seen on this campus.

It appears that Kappa Alpha will come out even with the school for Mason plans to go out for the varsity team while Hammack plans to remain playing intramural tennis for the house.

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Cape Game K'ville Game

(Continued from page 6)

minutes of the game, making the score 30-7. The point after attempt was good. The final score read 30-7 as the Miners lost their second game of the season, making their overall record 3-2.

(Continued from Page 6)

tion in ground gains last year and is leading the NCAA this year. He carries the ball about 60 per cent of the time and has made six runs of 80 yards or better, gaining 240 yards against Springfield alone.

A freshman threat is quarterback Jack Ball, No. 12.

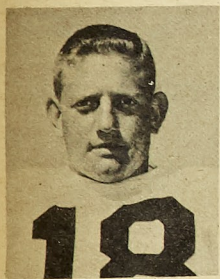
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Gridiron Hero Ted Deranja



Theodore Fabian Deranja

Ted Deranja, the Miner's offensive fullback and defensive line-backer, is a graduate of Roosevelt High in St. Louis, where he played three years of varsity football as quarterback and halfback, and two years guard on their basketball team.

As a sophomore, Ted has scored ten points this year—eight of which were in the Washington University game which Ted considers his most exciting game of the season. Lettering last year as a freshman, Ted played first string defensive line-backer and scored six points to help the Miners beat Springfield 36-19.

This year Ted has been performing the task of filling in for last year's graduated fullback Ray Parker until he injured his knee in the Pitt game. Ted says his knee is O. K. now and he is ready for full duty at Kirksville tomorrow.

Ted, an average student, is a member of "M" Club and the Engineers Club, expects to go into Power Engineering after graduation from the E. E. department. Ted will also play intramural basketball for the Engineers Club.

The prospect for the next two years is bright for Deranja in that he will have good experience to rely on and lots of good competition from sophomore Paul Wiegard, who is fiercely fighting for the first string offensive fullback position. So in the future the Miner fans should see some good competitive ball playing by Ted Deranja.

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KMOX to Broadcast New College Course In Money Management

St. Louis, Mo.—KMOX Radio (CBS) will launch a new college instruction course titled "Successful Money Management," starting Monday, Oct. 26, at 8:30 p. m., it was announced today by Robert Hyland, CBS Radio Vice President and General Manager.

KMOX Radio was the first commercial station in the country to conduct a college credit course on-the-air in 1956, when it presented "Music and You."

The 13-week college instruction course will be presented in cooperation with St. Louis University's School of Commerce and Finance, and Dr. Arthur C. Meyers, Jr., Associate Professor of Economics will serve as instructor.

Included in the course will be discussions on "How to Achieve Financial Security," "How to Borrow Money," "How to Plan Your Insurance Program" and "How to Protect Your Savings Against Inflation."

A certificate will be awarded to

UPTOWN THEATRE

MOVIES IN CINEMASCOPE

Friday and Saturday, Oct. 23-24

'The Hangman'

Robert Taylor, Tina Louise, Fess Parker and Jack Ford

Sunday, Monday and Tuesday, Oct. 25-26-27

'The Diary of Anne Frank'

Millie Perkins, Joseph Schildkraut and Shelley Winters

Wednesday-Thursday, Oct. 28-29

'For the First Time'

Mario Lanza, Johanna von Koczian and Zsa Zsa Gabor

RITZ THEATRE

MOVIES ON WIDE SCREEN

Friday and Saturday, Oct. 23-24

'Fixed Bayonets'

Michael O'Shea, Richard Basehart — PLUS —

'The Rawhide Trail'

Rex Reason and Nancy Gates

Sunday, Monday and Tuesday, Oct. 25-26-27

The Perfect Furlough

Tony Curtis and Janet Leigh — PLUS —

'The Blob'

Steven McQueen, Aneta Corseaut

Wednesday-Thursday, Oct. 28-29

'The Black Orchid'

Sophia Loren and Anthony Quinn — PLUS —

'Five Against The House'

Guy Madison, Kim Novak and Brian Keith

ROLLA DRIVE IN

SHOW STARTS AT 7:00 P. M.

Friday and Saturday, Oct. 23-24

'Seven Cities of Gold'

Michael Rennie, Anthony Quinn — PLUS —

'The Burning Hills'

Tab Hunter and Natalie Wood

State Highway Patrol Warns of Traffic Law Violations and Danger In Having "Hayrides"

The State Highway Patrol Superintendent warned today of traffic law violations and danger where "hayrides" are concerned.

Col. Hugh H. Waggoner said, "Conditions under which hayrides are ordinarily conducted are extremely dangerous and are also in strict violation of Missouri traffic laws. The tractor operator, the riders and other motorists are in danger when these vehicles are on the roads at night."

The Superintendent urged teachers, parents, youth group counselors and church organiza-

all those who enroll in the course and pass the written examination. Full particulars regarding enrollment can be obtained by writing to the Program Director, KMOX Radio, 1144 Hampton Ave., St. Louis 10, Mo.

tions to consider the dangers involved and arrange for the rides to be conducted on private property. He said, "There are few of us who did not enjoy this form of fun during the fall season when we were young, but conditions have changed since the time public roads were seldom used at night."

The Patrol Chief called attention to the fact that one group of Missouri youngsters on a hayride this year were involved in three traffic accidents. In one of the mishaps a boy was injured and before the outing was over, two automobiles had suffered damages amounting to over \$400. "Fortunately no one was killed in this series of accidents," Waggoner added, "but any clear thinking adult can well imagine what could have happened."

The Superintendent said the Safety Division of the Highway Patrol continually warn farmers of the dangers involved when farm tractors have to use public roads in the course of the day's work. "The dangers are magnified a hundred times when these slow-moving, cumbersome vehicles are on the roads at night," he stated.

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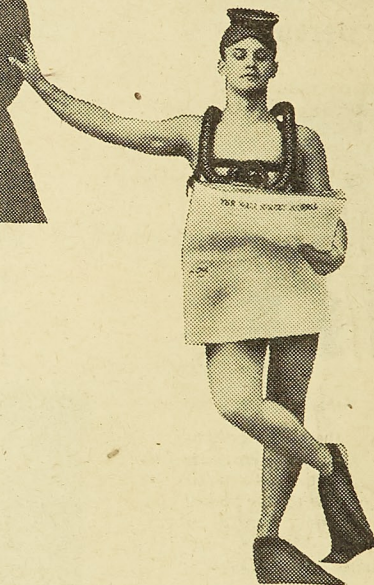
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Tuesday, November 17