



20 Mar 1959

## The Missouri Miner, March 20, 1959

Follow this and additional works at: [https://scholarsmine.mst.edu/missouri\\_miner](https://scholarsmine.mst.edu/missouri_miner)

These newspapers reflect the attitudes, perspectives, and beliefs of different times. Neither the library nor the university endorses the views expressed in these collections, some of which contain images and language which may be offensive to some readers.

---

### Recommended Citation

"The Missouri Miner, March 20, 1959" (1959). *The Missouri Miner Newspaper*. 1618.  
[https://scholarsmine.mst.edu/missouri\\_miner/1618](https://scholarsmine.mst.edu/missouri_miner/1618)

This Newspaper is brought to you for free and open access by Scholars' Mine. It has been accepted for inclusion in The Missouri Miner Newspaper by an authorized administrator of Scholars' Mine. This work is protected by U. S. Copyright Law. Unauthorized use including reproduction for redistribution requires the permission of the copyright holder. For more information, please contact [scholarsmine@mst.edu](mailto:scholarsmine@mst.edu).



The **MISSOURI MINER**

NUMBER 22

VOLUME 45

ROLLA, MO., FRIDAY, MAR. 20, 1959

## '52 Grad Awarded AIME Gold Medal

### St. Louis Section to Present Medal

Dr. Norbert F. Neumann, MSM '52, now employed by the Uranium Division of Mallinckrodt Chemical Works, Weldon Springs, Mo., has been selected to receive the Robert Lansing Hardy Gold Medal of the AIME for 1959. The award recognizes special promise rather than achievement in the field of Metallurgy, and is given to a metallurgist who has not reached his 30th birthday before the end of the calendar year during which selection of the recipient is made.

The award was established in 1956 by Arthur C. Hardy of Cambridge, Mass., as a memorial to his son. It is planned that the St. Louis Section of the AIME will make the presentation of the medal to Dr. Neumann at the May meeting in St. Louis on the occasion of the annual AIME Presidential visit.

Employed as a research supervisor by Mallinckrodt since graduation, Dr. Neumann received his B. S. in Metallurgical Engineer-

ing from the Missouri School of Mines and Metallurgy in 1952. He was then appointed to the Union Carbide Fellowship in Metallurgical Engineering and worked toward his Doctor's Degree which was received in 1955. A paper entitled "The Effect of Additions on the Exchange of Chlorine between Calcium Chloride and Metal Oxides" which was based on his doctoral dissertation was recently published in the transactions of the Metallurgical Society of AIME.

Dr. Neumann's present duties as research supervisor places him in charge of the fundamental studies of the thermite reaction used to produce uranium metal and the development of new metallurgical processes of the products of this metal and its alloys.

Dr. Neumann is the third recipient of the Hardy Gold Medal since its establishment. He is married, lives in St. Louis, and is an ardent amateur photographer and hi-fi addict.

## EIT Examination Here April 25

The Engineering Division of the State Board of Registration for Architects and Professional Engineers will hold examinations for the enrollment of engineers-in-training on Saturday, April 25, 1959, 8:00 a. m. to 5:00 p. m., on the MSM Campus at Rolla.

This examination date should be of special interest to recent engineering graduates and engineering students who will graduate this year or next. It is the first step toward registration. After an applicant has passed the examination and is enrolled, it is necessary for him to take only the final one-day examination when he files for registration after acquiring the necessary four years of engineering experience.

The examination covers basic science and mathematics and their application. The syllabus of the examination is broad, general, outline, is as follows:

Mathematics, physics, chemistry, engineering economics, electrical circuits, statics, strength of materials, kinetics, heat power, hydraulics.

All persons interested in taking the examination must file application with the required fee of \$5.00

## NOTICE

**There Will Be NO MINER NEXT WEEK Due To The Easter Holiday**

—THE EDITOR

at the office of the Civil Engineering Department prior to the examination date. Application should show applicant's permanent mailing address, rather than temporary address while at school. The examinee may bring to the examination any textbooks or reference books which he thinks may be helpful. Time and place of the examination will be posted on campus bulletin board.

Application blanks for enrollment may be secured at the Civil Engineering Department Office.

## SSCQT Applications

Applications for the April 30, 1959 administration of the College Qualification Test are now available at Selective Service System local boards throughout the country.

Eligible students who intend to take this test should apply at once to the nearest Selective Service local board for an application and a bulletin of information.

Following instructions in the bulletin, the student should fill out his application and mail it immediately in the envelope provided to SELECTIVE SERVICE EXAMINING SECTION, Educational Testing Service, P. O. Box 586, Princeton, New Jersey. Applications for the April 30 test must be postmarked no later than midnight, April 9, 1959.

According to Educational Testing Service, which prepares and

(Continued on Page 8)

## Linda Fitzgerald Is St. Pat's Queen; Sig Tau Float Wins First Place in Parade

Miss Linda Fitzgerald was selected by the St. Pat's Board to reign as the St. Pat's Queen of 1958. She was chosen Friday morning of the St. Pat's festivities by the Board. The selection was based not only upon her good looks but also her charming personality. In the past the Queen was chosen from her picture.

Linda was born in Springfield, Missouri. She graduated from Central High School there. At present she is living in Springfield and attending Southwest Missouri State College. The 21-year old senior is very active at SMS. She is a member of Alpha Delta Phi, Alpha Psi Omega, national honor dramatic society; Speech Squad, College Theater, and is Secretary of the Senior Class.

Her hobbies include dancing, bowling and singing. She likes old semi-classical music, some classical, and some popular tunes.

Upon graduation from SMS Linda plans to go into either teaching or airline stewardess work.

This is not Linda's first award. The Springfield Chamber of Commerce picked her as an Attendant to Miss Merry Christmas in 1956. In 1958 she was picked as Miss Springfield. Also in 1958 she represented SMS in the Who's Who Among Students in American Universities and Colleges.

Miss Fitzgerald represented Kappa Sigma fraternity and is the third successful Queen candidate to be nominated by Kappa Sigma in the past three years. Miss Joline See and Miss Marilyn Goodnight, now Mrs. Frank Hill, were the St. Pat's Queens for the 1958 and 1957 celebrations. Miss Fitzgerald was escorted over the weekend by Don Wisdom of Kappa Sigma fraternity.

The MINER would like to extend its congratulations to Miss Linda Fitzgerald. We feel that St.

the highlight of the celebration. Every year a prize has been offered for the best float in the parade. Awards are received up to third place.

This year the first place award

stemmed from a party favor. This idea was initially carried out by Leroy Rose, Jim Hahn, and Al Mollenbeck, all of whom began work on the understructure of the float. One hundred and thirty five



went to Sigma Tau Gamma a campus fraternity. Their float consisted of a huge crepe paper whale displaying the fictitious puppet Pinnochio situated in the jaws of the whale. The tail and the eyes of the whale were moving

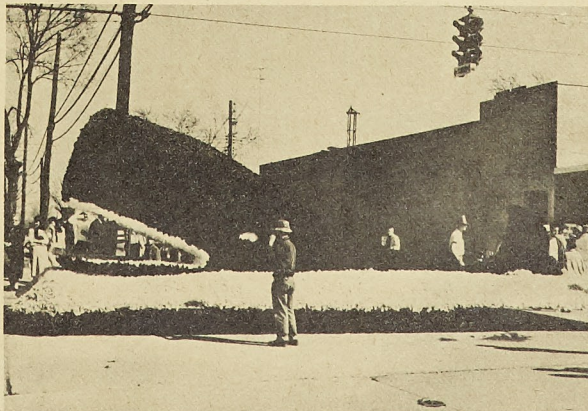
dollars worth of crepe paper was employed in the over all construction of the float. The style of construction used on the float was semi-monochrome, and was supervised and directed by the civil engineers of Sigma Tau Gamma.

Since no campus organization may chance capturing first place twice in succession, the Sig Taus will build the Queen's float next year.

## NOTICE

Mid-term grades this semester will be turned in one week earlier than in the past, according to Paul E. Ponder, Registrar. The grades this year will be asked for on March 28 at noon. Mid-term will actually take place on April 4.

This change in procedure has been approved by the Policy Committee in order to give the students more time to consult with their advisors concerning their mid-term record. The change will not affect the time for dropping courses without grade. This will be figured as one week from the mid-term and since the mid-term is April 4 students may drop courses without final grades up to and including April 11 but not later.



Patrick was well pleased with her selection as Queen for 1959.

Ever since the festivities commemorating St. Pat's birthday were instituted a traditional parade involving numerous floats built by campus organizations has been

throughout the parade. A third moving part on the float was the waving hand of Pinnochio. Flowers were shot from the spout of the whale in place of water.

According to Sigma Tau Gamma their inspiration for the float



## 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.

### Senior Board

Editor-in-Chief	James J. Walther
Business Manager	Mike Swoboda
Managing Editor	Ken Baxter
Associate Editor	Robert Powers
Sports Editor	Robert A. Qualls
Features Editor	Jerry Meisner
Advertising Manager	Jerrold M. Alyea
Circulation Manager	Mike Burns
Art and Make-up Director	Dennis Camp
Assistant Editor	Henry Duvall
Technical Advisor	Bill May
Secretary	Ronald E. Sander

## EDITORIALS

To the Editor:

One past Sunday afternoon there was a panel discussion on television and the topic for the hour was, "Where Is Science Taking Us?" The panel was made up of three distinguished men of science, among them Dr. Carl Oppenheimer of "Project Manhattan" fame. The discussion was a fascinating one with each of the keen minds present giving a listener a little glimpse into the wonderful age into which we are being propelled.

This program is just an example of the melting pots of high-level thinking to which we are allowed to listen, thanks to the media of television. Yet while watching this program the question kept coming to mind—how many of the young engineers and men of science down in Rolla were taking advantage of the privilege to partake in this exchange of knowledge? Those that did would have heard one of the participants remark that he "would like to see less teaching and more learning in the educational institutions in the United States."

A little thinking about that statement and how it could be applied toward the enhancement of a degree from M. S. M. will bring out many good ideas varying as the minds of the individuals. The idea that occurred in the mind of the writer was this: perhaps we could cut down on the amount of time spent attending classes.

Isn't it enough that we demand a professor to be educated in his subject and have a working knowledge of its applications? Why

must we additionally demand that he be skilled in the arts of lecturing, selling, and acting. These arts, and they are arts, certainly play a big role in the learning process as we have it set up at Rolla. If the things we want to learn from a professor are of a technical nature, then why don't we insure that he has the privilege to communicate his knowledge to his students in the manner best utilized by his own personal characteristics. A professor with limited capabilities as a lecturer, salesman, or actor would perhaps find that for him the best way to promote "learning" would be to have office hours open to the students on a "come when you need me" basis. For another professor who has a proficiency in the afore-mentioned additional arts would perhaps find that his students learned more when he did prepare and give lectures.

The student's role under such a system would be changed too. The professors themselves would decide perhaps whether or not the students had to attend whatever type of "class" he was presenting. Also the students would have more time to devote to the reading and study of books and this is the way that the most valuable learning takes place.

The type of educational system just depicted is very European and the writer feels that such a system would not necessarily be perfect in all facets but that it has its good points and we should strive to weave these into our present educational structure.

(The writer's name was withheld upon request.—ED.)

8,917 birth certificates were received in December, and 5,408 death certificates were issued. During the same period, 2,227 marriage certificates and 1,337 divorce certificates were issued.

**Ω**  
**OMEGA**  
**WATCHES**

Authorized Agent  
**G. L. Christopher**  
**Jeweler**  
805 Pine Rolla, Mo.

## FRESH PIZZA

-- PIZZA HOUSE No. 4 --

Rolla, Mo. Highway 63  
● 1 Block West of Greyhound Bus Depot

● TAKEOUT SERVICE

EM 4-1293

## Why Sons Do Not Follow Their Fathers To Missouri School of Mines Campus

For several years, the Missouri School of Mines has been rated as one of the best engineering institutions in the United States. The fact that approximately five per cent of our enrollment is composed of students of other nations is reasonable evidence that this reputation has spread abroad to some extent. The graduates are well aware of the quality of their education and of the status of the school which has helped them to acquire it, but few of their sons will ever attend here.

To support the statement which titles this article, few records are available, but there seems to be general agreement among school officials that "sons do not follow their fathers to M. S. M." Assistant Dean Hubbard, commenting upon the subject, mentioned a strong tendency for our graduates to send their sons to the more expensive eastern schools such as Harvard, Yale and Princeton. After having become successful engineers, M. S. M. is "just not rich enough for their blood."

### Extensive Preparation

There are a number of reasons for attending another college or university. Perhaps one of the most obvious is that engineering and other professions requiring extensive preparations are rejected in accordance with the decline of American individualism and the increasing ease of modern living. Despite the sudden surge of interest in science resulting from recent Russian accomplishments,

the math and science fields still are considered as beyond the reach of all but a few. Thus, because technology is rejected, the technical school is rejected.

### Lost Individualism

Although on the decline, individualism has long been a major characteristic of the American people. It was this spirit of individualism that successfully revolted against England, conquered the frontier, and established our present system of government. Few Americans either want or will tolerate a stereotyped existence, and Miners are no exception. Nearly every student, no matter how well his social and scholastic lives are co-ordinated, feels a pressure. He seeks release by "knocking" the "gigantic shaft in the middle of the campus," the coeducational nature of the school, the student union building, study hours, and the friendliness of the people of Rolla. The statement is frequently heard that there is nothing to do in "this town." The city of Rolla, to whom the remark refers, is all too often judged unfairly, but the fact remains that many students have difficulty in adjusting to the life of a prospective engineer and the restrictions thus imposed.

In a recent survey of fifty-five Miners, it was apparent that the typical student was highly optimistic, had very progressive social thinking, and was endowed with a deep vein of the individualism to which has already been referred.

In fact, these traits (as compared to national survey results), show a marked digression from the usual. The students have faith in a better future and want their children to share in that future. The look to other and better ways but cannot escape the old feeling that "the greenest grass is on the other side of the fence." If the search for a way they will find one. They may believe that an education of equal or higher quality may be achieved in an easier way or that a son's personality and social experience may be better gained elsewhere. One factor which may be the most significant of all is that the engineer's job is likely to take him anywhere. Convenience would be a matter of consideration and frequently the deciding one. Non-resident tuition, scholarships, or co-op systems must all be taken into account.

### They Go Elsewhere

Mr. Hubbard told of an alumnus' son who wanted to attend M. S. M. as his father had done. The father thought this to be a good idea, but suggested that a better plan would be to attend one of the eastern universities for two years and then come to the School of Mines to complete a degree. Two years have passed, but the son is still in the East. So goes the trend. Our graduates leaving carrying a high opinion of their alma mater, but their sons do not follow.

## Off the Cuff —

### — Cool, Man, Cool

It's getting to the point where the word "cool" has more different meanings than the Prof. has lectures. To the jazz man, it means a special kind of pleasing beat. The weatherman views it in still another light. But, the style experts give it a new dimension. It is the new lightweight mode of living.

True enough, there is no longer reason to sweat out the summers just because you are male. Science has finally taken pity on us and thanks to a whole new raft of fabrics and weaves, we can feel as comfortable as the gals.

Here's how the "cool" look shapes up for spring, according to the Arrow Style Clinic. Ice blue is the big color. This, of course, comes as no surprise with the number of blue shirts that are seen on campus. However, graded shades of blue will dominate the

scene in everything from suits—dark here—to undershorts—lighter shades. It will also be used for ties and socks. The textured look is news in suits; the raw silks and slubbed fabrics combine the elegance and casualness to conform to an occasion. And comfortable! Even though they are well tailored, they weigh practically nothing—a real blessing on a hot day. And although one look out the window may take one think that it will never get hot again, the Farmer's Almanac assures us it will. Hence, if you are picking out a new spring suit, keep the warm weather in mind.

Light-weight wash-and-wear pin stripes are the big news in shirt wear. With that blue suit, select a blue and white pin stripe shirt with tab collar. The girls still favor the neatness of a tab collar so why not take advantage of a good thing? They give a nice trim look, and do a lot to bring a giraffe neck down to a better length.

Horizontal pin stripes look very new, and our unofficial survey of coed colleges reveals that they will be real popular with the fair sex.

There is increased interest in ties and handkerchiefs that are specially designed to complement your shirt. For example, a blue and white shirt with a horizontal stripe might take a solid blue tie in a textured weave, brightened with a subtle vertical motif. The

Continued on Page 6

The Finest in.....  
**DRY CLEANING**

Pressing While You Wait.  
One Day Service if Requested.  
Pick Up and Delivery Service.

**MODERN**  
Dry Cleaners  
9th and Pine





ct, these traits (as compared with the results of a survey), show a marked digression from the norm. The students have faith in the future and want their children to share in that future. They do not escape the old feeling that the greenest grass is on the other side of the fence. If they are for a way they will find it. They may believe that a life of equal or higher quality may be achieved in an easier or that a son's personal social experience may be gained elsewhere. One fact may be the most significant is that the engineer's tendency to take him anywhere convenience would be a matter of consideration and frequent decision. Non-resident students, or co-op students, must all be taken into account.

### they Go Elsewhere

Hubbard told of an alumnus who wanted to attend M. as his father had done. His father thought this to be a good idea, but suggested that the plan would be to attend one of the eastern universities for two years and then come to the Schreiner to complete a degree. Years have passed, but the son is still in the East. So go ahead. Our graduates leaving a high opinion of the mater, but their sons do not.

nt-weight wash-and-wear are the big news in shirts. With that blue suit, select and white pin stripe shirt and collar. The girls see the neatness of a tab collar and may not take advantage of it. They give a nice trim and do a lot to bring a shirt back down to a better length. Horizontal pin stripes look very nice and our unofficial survey of colleges reveals that they are popular with the fair sex. There is increased interest in handkerchiefs that are designed to complement the shirt. For example, a blue and white shirt with a horizontal stripe might take a solid blue textured weave, brightening the subtle vertical motif. The

Continued on Page 6



Wait.  
rested.  
service.  
ERN  
leaners  
and Pine

## How the Date of Easter Is Determined

Have you ever wondered how the date for Easter is determined? You may have heard that Easter is the first Sunday after the first full moon after the twenty-first of March. This is only approximately true. The astronomical full moon is not used in determining Easter, but rather, the assumed date of the full moon is based on a formula developed at the time the calendar was reformed under Pope Gregory around 1580 A. D. Easter is the annual celebration of the resurrection of Christ, which according to the Bible occurred on the Sunday immediately following the Hebrew Passover. The Passover is celebrated on the day of the first full moon after the vernal equinox (March 21). Hence Easter would be the following Sunday.

The Christian Church early recognized the need for some formula by which Easter could be predicted without involved astronomical calculation of the exact date of the paschal full moon (Pasch is the Hebrew word for Passover). At the First Council of Nice in 325, such a formula was worked out, based upon the lunar cycle. The lunar cycle is founded upon the observation that the sun and moon return to the same position relative to the earth every 19 years. Thus, if we know the position of a given year in this 19-year cycle, the dates of all the full moons can be determined. Unfortunately, the assumption that the lunar cycle is exactly 19 years long is inaccurate. Also, the Julian calendar used in the early

Christian era had too many leap years. As a result things got rather mixed up after a few hundred years. In 1580, Pope Gregory authorized a reform of the calendar, which was put into effect in 1582 in most of Catholic Europe, but was not accepted by Britain until 1752. Russia did not begin using the "New Style" calendar until after the Communist revolution in 1917!

The present calendar is called "Gregorian" in honor of the Pope. It was actually invented by a mathematician named Luigi Lilio Ghiraldi, based on astronomical calculations made by Clavius. Lilio (Ghiraldi's Latin Name) also developed an improved formula for the determination of Easter dates. This formula is the one still in use. It is capable of predicting full moons within one day for many thousands of years to come. Since the formula might predict a full moon one day early, there was a possibility that Easter might be celebrated on the day of the Passover. To avoid this possibility, the formula was "rigged" so that the predicted full moon may come after, but never before, the astronomical full moon. As it stands, the formula is sometimes as much as two days late, but never more than that.

Here is the present lunar cycle:

Golden Number:

1 2 3 4 5 6 7 8 9 10

Epact:

29 10 21 2 13 24 5 16 27 14

Golden Number:

11 12 13 14 15 16 17 18 19

## ROVING MINER

Question — What is your opinion on the construction of floats each year?

Theta Kappa Phi fraternity was privileged to use the facilities of Overhoff Buick Company during the construction of their float. Theta Kappa Phi would like to express its appreciation for the valuable assistance it received. Below are a few comments from the owner and employees.

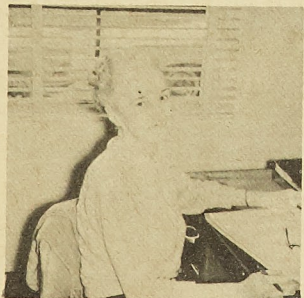


OVERHOFF BUICK CO.



Robert Anderson

It was a pleasure having the boys here. They utilized and kept straight the space and material we let them use.



Mrs. Jesse Vance

I thought it was the best parade we have ever had here in Rolla. The boys that worked on the float did an excellent job and they were very well behaved.



Gerald Overhoff

My impression is that while the boys were here they did a lot of work on the float and I am sorry they didn't win a prize. This years parade seemed to be much better than the previous years. We would consider backing Theta Kappa Phi next year.

### Epact:

19 0 11 22 3 14 25 6 17

The position of a year in the lunar cycle is called the "Golden Number" of the year. The "Epact" is the moon's age (days since the new moon) on January 1. The Epact thus locates all the new and full moons in the year's calendar. To determine the Golden Number, add one to the year A. D. and divide by 19. The remainder is the Golden Number. Adding 1 to 1959 and dividing by 19, we have 13 with a remainder of 3. Thus the Golden Number for 1959 is 3. When the remainder is zero, the Golden Number is 19.

It now remains to locate the Sundays of the year. There are only 14 possible calendars: January 1 can come on any one of the seven days of the week, and a given year is either leap year or it is not. Hence 14 possibilities. These 14 calendars rotate in a 28 year cycle called the solar cycle. The calendar to use for a given year is determined by the position of the year in the solar cycle. The various calendars are designated by their "Dominical Letters." The dominical letters are A, B, C, D, E, F and G. Leap years are given

two dominical letters. If you have a calendar for a certain year, you may determine its Dominical Letter as follows: Write A under Jan. 1, B under Jan. 2, etc. The letter which falls on the first Sunday of the year is the Dominical Letter of that year. After placing G under Jan. 7, you may place A under the 8th, and continue this cycle of matching letters to dates until you get tired of the process. You will soon discover that Sunday always falls on the dates corresponding to the Dominical Letter. After February 29, the calendar for a leap year is just like that of a normal year having a Dominical Letter immediately preceding the one used at the beginning of the year. For this reason, leap years are given two Dominical Letters. The second of these operates after February 29, and hence is the one used to locate Easter.

The following is the "Solar Cycle" above the "Dominical Letter:"

1	2	3	4	5	6	7	8	9	10
FE	D	C	B	A	G	F	E	D	C
11	12	13	14						
G	F	E	D	C	B	A	G	F	E
15	16	17	18	19	20	21	22	23	24
B	A	G	F	E	D	C	B	A	G

25 26 27 28

DC B A G

To determine the "Solar Cycle" of the year, add 9 to the year A. D. and divide by 28. The remainder is the "Solar Cycle." This determines the Dominical Letter of the year, and hence the dates of all the Sundays.

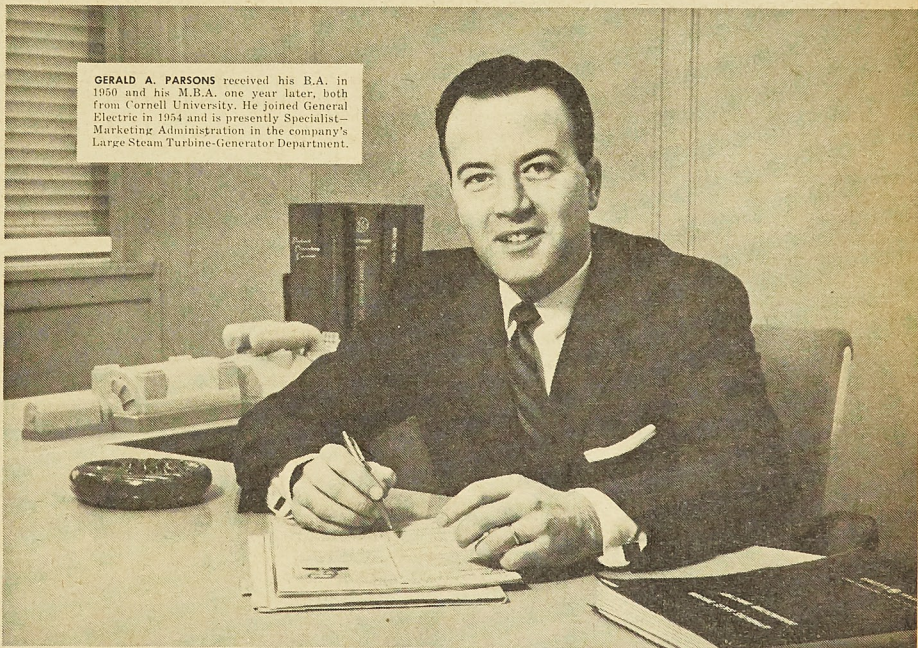
With all the full moons and Sundays located, Easter is determined. The above cycles are good until 2100 A. D., when they must be corrected in accord with rules worked out by Lilius.

Once the Epact and Dominical Letter are correctly determined, however, the following table of Easter dates is perpetual:

### Perpetual Table of Easter Dates

DOMINICAL LETTER										
For April:										
Epact	A	B	C	D	E	F	G			
0	16	17	18	19	20	14	15			
1	16	17	18	19	13	14	15			
2	16	17	18	12	13	14	15			
3	16	17	11	12	13	14	15			
4	16	10	11	12	13	14	15			
5	9	10	11	12	13	14	15			
6	9	10	11	12	13	14	8			
7	9	10	11	12	13	7	8			
8	9	10	11	12	6	7	8			
9	9	10	11	5	6	7	8			

(Continued on Page 6)



GERALD A. PARSONS received his B.A. in 1950 and his M.B.A. one year later, both from Cornell University. He joined General Electric in 1954 and is presently Specialist—Marketing Administration in the company's Large Steam Turbine-Generator Department.

## "The biggest challenge a man has to face is himself"

"Men and businesses are alike in one respect," says Gerald A. Parsons, 30-year-old marketing and personnel development specialist. "Their success depends to a great extent on how well they respond to challenge. And I've found that the biggest challenge a man has to face on his job is not the competition of others — but the far more important one of developing himself to his fullest capabilities."

"During my four years with General Electric, I've had plenty of opportunity for self-development. Challenging training assignments at five different locations within the company have given me a broader understanding of my career area. In my present job I have the benefit of working with experts, both in establishing long-range goals and in helping to achieve them. I've found that working toward future potential is vital in the development of successful businesses — and successful men."

Young men such as Gerry Parsons are important to the future of companies like General Electric and to the growth of America's dynamic, competitive-enterprise economy. Our nation's progress will depend more and more upon those forward-looking individuals who continue to develop to their fullest capabilities during their lifetime.

That is why General Electric provides a climate for individual progress — with opportunity for increasing knowledge and skills — for all of its employees, including 30,000 college graduates. For it is only as individuals meet the challenge of self-development that there continues to be progress for a business, an industry, or a nation.

Progress Is Our Most Important Product

GENERAL ELECTRIC



## MSM Opens Track Season in MIAA Meet at Columbia; Tennis Matches Start; Putting Practice Is Under Way

The first MSM track competition of the season will be the Missouri Intercollegiate Athletic Association Indoor Track Meet. This all conference meet, which will be held Saturday evening, March 21, at the Mizzou field house at Columbia, Mo., will include all six teams in the MIAA conference.

Although MSM has no returning point men of last year's conference meet, it is expected that the team may do a bit better this year. Events in which the MSM team is strongly favored to place include the high jump, broad jump, pole vault, and shot put. A couple of newcomers to the track team, Louis Whitehair, high jumper, and Charlie McCaw, shot putter, may prove to be what the team needs in the field events. Returning lettermen to this year's track team include Conrad Schroeder, Mike Vancil, Art Herschbach, and John Ratliff.

Last year's conference meet saw MSM on the bottom of the list with the huge total of seven points. Cape took first in the 1958 meet with 62½ points. Kirksville was also near the top with 50 points. Warrensburg, Maryville, and Springfield with 24½, 22, and 13 points, respectively, filled the remaining places. A couple of new records were set last year in the stiff competition. Both the mile and the two mile distance records were broken by a speedster from Cape. The previous 440 record was also tied by a Kirksville entry in the met. The seven points which MSM managed to obtain in the meet were accumulated by Don Agers, shot put, Nick Barre, pole vaulter, and the mile relay team also got one point.

This year's schedule of events and entries will start immediately at 6:30 p. m. and will run as follows:

### ORDER OF EVENTS

6:30—60 Yd. Dash Trials  
6:50—Mile Run  
7:00—60 Yd. Dash Finals  
7:10—High Hurdle Trials  
7:30—440 Yd. Finals—Run in sections against time  
7:50—High Hurdle Finals  
8:00—2 Mile Run  
8:15—Low Hurdle Trials  
8:35—880 Yd. Finals—Run in sections against time  
8:50—Low Hurdle Finals  
9:00—Mile Relay—Run in sections against time

### FIELD EVENTS

6:30—Pole Vault  
6:30—High Jump  
6:30—Broad Jump  
6:30—Shot Put

60 Yd. Dash—Tom Cooper, Robert Hyberger, Pat O'Mealy.

440 Yd. Dash—Conrad Schroeder, Harry Schneider, Rodney Scott.

880 Yd. Run—Charles Glaeser, Bill Erickson, Sherman Brady  
High Jump—Mike Meehan, Wayne Lucas, Louis Whitehair.

Mile Run—Mike Vancil, Art Herschbach, Mile Hardie.

2 Mile Run—Mike Vancil, Art Herschbach, Sherman Brady.

Mile Relay—Conrad Schroeder, Charles Glaeser, Rodney Scott, Harry Schneider.

Broad Jump—John Ratliff, Conrad Schroeder, Jimmy Houseman.

60 Yd. High Hurdles—Bill Scott, Dominic Credi, Doug Irwin.

60 Yd. Low Hurdles—Bill Scott, Dominic Credi, Doug Irwin.

Pole Vault—Doug Irwin, Art Farnham.

Shot Put—Charles McCaw, Pat O'Mealy.

## Dean Wilson, as ECPD Member, Inspects State U. of Ohio

Dean Curtis L. Wilson returned last week from Ohio where he was a member of a team of prominent engineering educators who inspected the engineering curricula at Ohio State University and University of Cincinnati. These inspections are done under the auspices of the Engineering Council for Professional Development which is the accepted accrediting agency for engineering curricula. Next month Dean Wilson will go to the University of California at Berkeley for a similar accreditation inspection.

Dr. D. S. Eppelsheimer, Professor of Metallurgical Engineer-

ing, will also do some ECPD inspecting. He will inspect the curricula at the University of Kentucky, Wayne State University at Detroit, University of Notre Dame, and the Illinois Institute of Technology at Chicago.

Professor E. W. Carlton, chairman of the Civil Engineering Department, recently served as a member of the inspecting teams for the University of Oklahoma and the University of Oklahoma City.

All of these inspections are for accreditation under the program of the Engineers Council for Professional Development.

### POINTS TO PONDER

From Reader's Digest

Clarence Day in ????:

The world of books is the most remarkable creation of man. Nothing else that he builds ever lasts. Monuments fall; nations perish; civilizations grow old and die out; and, after an era of darkness, new races build on others. But in the world of books are volumes that have seen this happen again and again, and yet live on, still young, still as fresh as the day they were written, still telling men's hearts of the hearts of men centuries dead. —Yale University Press

T. A. Boyd in *Professional Amateur, the Biography of Charles Franklin Kettering*:

Said "Boss" Kettering: "Research is a high-hat word that scares a lot of people. It needn't. It is nothing but a state of mind—a friendly, welcoming attitude toward change. It is the problem-solving mind as contrasted with the let-well-enough-alone mind. It is the composer mind instead of the fiddler mind. It is the tomorrow mind instead of the yesterday mind." —Dutton

### 1959 TENNIS SCHEDULE

Saturday, March 28, Washington U. at St. Louis.

Saturday, April 4, Springfield at Rolla.

Saturday, April 11, Drury at Rolla.

Friday, April 17, Concordia at St. Louis.

Saturday, April 18, Harris Teachers at Rolla.

Saturday, April 25, St. Louis at Rolla.

Wednesday, April 29, Westminster at Fulton.

Saturday, May 2, Cape Girardeau at Rolla.

Friday and Saturday, May 9 and 10, Outdoor Meet at Rolla.

### 1959 GOLF SCHEDULE

Saturday, April 4, Springfield at Springfield, A. M.

Saturday, April 11, Drury at Springfield, A. M.

Friday, April 17, Concordia at St. Louis, A. M.

\*Saturday, April 18, Washington University and Harris Teachers at Rolla.

Wednesday, April 29, Westminster at Fulton, P. M.

Saturday, May 2, St. Louis U. at Rolla, A. M.

Friday and Saturday, May 9 and 10, Outdoor Meet at Rolla.

Monday, May 4, Washington University at St. Louis.

### 1959 FOOTBALL SCHEDULE

Saturday, September 19, Lincoln University, Here, 2:30 p. m.

Saturday, September 26, Washington University, There, 2:00 p. m.

Saturday, October 3, Pittsburg

Friday, October 9, Warrensburg There, 8:00 p. m.

Saturday, October 17, Cape Girardeau, Here, 2:00 p. m.

Saturday, October 24, Kirksville, There, 2:00 p. m.

Saturday, October 31, Maryville, There, 2:00 p. m.

Saturday, November 7, Springfield, Here, 2:00 p. m.

\*Denotes triangular meet.

## Milwaukee Scene for Tool Engineers' Annual Meeting

The importance of planning will be spotlighted when manufacturing men from every area in the United States convene at Milwaukee's Hotel Schroeder to take part in the variety of functions scheduled for the 40,000-member American Society of Tool Engineers' Annual Meeting, April 18-22.

The theme for the convention is "Planning for Profit" and 13 technical sessions pursuing this theme are scheduled, including a two-day seminar devoted to the study of controlling manufacturing costs.

Saturday and Sunday, April 18-

meetings called "Leadership Conferences." These meetings will be attended by the newly elected Chairmen of ASTE's 155 Chapters, who will receive information and instructions that will help them to satisfactorily discharge their new responsibilities.

One of the high points of the five-day convention will be the Honor Awards Dinner and Third Annual Eli Whitney Memorial Lecture. Swan E. Bergstrom, President of the Cincinnati Milling Machine Company will deliver the lecture, having been chosen for this signal honor in recognition of "Demonstrated superiority in the quality of his achievements and caliber of his professional service to the tool engineering profession, to industry and to the American standard of living."

Other honors will be accorded to six men who have made outstanding contributions to the tool engineering profession in the fields of research, engineering, education, writing, leadership and manufacturing methods. A note of democracy will sound on Tuesday, April 21, when the American Society of Mechanical Engineers will join ASTE in presenting a two-hour technical session, with papers being presented by ASME members to an ASTE audience.

Eleven plant tours have been arranged for the benefit of visiting tool engineers who want to enjoy a sort of "bus-man's holiday," and a full slate of entertainment and activity for wives who accompany their tool engineer husbands to the convention has been arranged.

A Milwaukee Day luncheon saluting Milwaukee area industry will be held on Monday, April 20. William J. Grede, Milwaukee foundry owner, and community leader, will address the gathering.

prizes will be awarded by a panel of anonymous judges and will be distributed September 1st.

As contest chairman, Dr. Mysels is being assisted by an advisory committee composed of Professors P. H. Emmett, John Hopkins University; V. K. LaMer, Columbia University; and Marjorie Vold, University of Southern California.

## USC Sponsors Chem Contest

The opening of the 1959 contest in colloid and surface chemistry among college undergraduates is announced by the University of Southern California. The contest is sponsored by the Continental Oil Company of Houston, Texas, and Ponca City, Oklahoma, and is now in its third year.

Students of chemistry, biochemistry and chemical engineering at all accredited universities of the United States and Canada are eligible if they are regular undergraduates on April 1, 1959.

The contestants may enter either a report on a research project conducted by themselves or an essay on the subject, "The contribution of Irving Langmuir to colloid and surface chemistry." Langmuir, American Nobel Prize winner in chemistry, passed away less than two years ago. He was with the General Electric Co., Schenectady, New York. The best essay and the best report will receive each prizes of \$500 and the second best each \$200 under contest regulations. Honorable mention prizes of \$50 each are also provided.

The deadline for submitting entries is July 1st, 1959. Entry blanks may be obtained immediately by writing to Prof. K. J. Mysels, Chemistry Department, University of Southern California, Los Angeles 7, California. The 19 will be devoted to a series of



Obviously,  
he makes the grade

We don't mean just at exam time, either. The comfort-conscious guy can tell at a glance that these smart Arrow shirts make warm weather a breeze. The medium-spread collar and fresh patterns are just right, alone or with a casual jacket. Arrow sports shirts come in a variety of fine patterns, priced from \$4.00 up.

→ARROW→

first in fashion



## CAMPUS NEWS



SOUP STRAINER  
Dale Plukar, of Sigma Pi

### Pi KA Wins Third Place

As usual St. Pat's was wild and furious. Its fame has spread far and wide, for two beauties in the form of Elaine and Marlene were attracted from the distant points of New Jersey and Florida. It is indeed fortunate for us that Marlene could make it for now we know that "Tiger" Moeller is really only Marlenes "Love-Bubble."

The new word JOHNER has been coined to replace the old expression Bird-Dog, maybe it should be Plural, Johners.

Brother Fred "I'll Never" Berg reserved for himself last week a permanent place in the ring of the famous P. K. A. arena, when he did what he would never do.

The building of the St. Pat's Float is always undertaken with a great deal of enthusiasm by our float committee, this year was no exception. We are very proud of our third place trophy and congratulations are in order for Brother Herm Vacca and his committee, especially brother Piekarz, for their fine work.

More congratulations, to Brother Fred Berg who pinned Miss Phylliss Myrick on March 12.

Sig Ep Makes This Year's Queens Float

Despite the efforts of quite a few of the independents who seem to have a great desire for wall to wall shillelaghs the Sig Ep freshmen made it their business to do their part in upholding the tradition of the St. Patrick's celebration by driving the snakes from Rolla before the arrival of His Majesty. We of Sig Ep are proud to say that our freshmen had a constructive part in the effort to maintain the spirit and color of the St. Pat's celebration.

The many hours of planning and work which went into the Queen's Float were deemed worthwhile when eighteen of the loveliest girls ever to adorn St. Pat's court stepped aboard our float and rode through the fair city of Rolla. Even the old stripped '47 Chevy, radiator leaking, clutch smoldering, springs sagging, and tires bulging wouldn't complain about such a worthy cargo. Now we are looking forward to competing for the big trophy again next year (less than 52 weeks away).

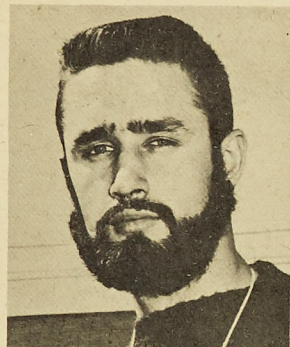
At the end of school Wednesday everyone at the Sig Ep house was off like a shot for the usual round of Parties (slightly extended due to the graciousness of the school) and with the help of a few alumni, such as Cullen, Harrison, Big Hawk, Anyan (Evad), Farf Alberter and a few we probably missed in the hustle, everyone was thoroughly pooped by Sunday.

Everyone that is except a few of the old die hards. Little Ole Ugly Hawk was scouting all over town trying to find someone to play golf early Sunday and finally went four holes with the Theta Kap's. The only other one who is in Hawk's class is Jim Nolfo and I can't say what he is doing because he isn't back yet.

### Tekes Capture Second Place

Well by now everyone should be recuperated from St. Pat's, but I'm sure nobody will be able to catch up on their homework. Although with all the partying going on, we were still able to build a float to win second place in the float contest. The theme of our float was "Snow White and the Seven Dwarfs."

Also over the weekend it seemed as though everyone had a date. For the few stags who got Dear John letters at the last minute, there appeared many stag girls looking for dates here at the TKE house. All in all, it was about the best party of the year.



SMITH BROTHERS  
Don Avery, Engineers Club

### Kappa Sigma Again Has St. Pat's Queen

Anticipation of St. Pat's arrival is no longer necessary at the Kappa Sig. house, as the old gent was present in all his glory. Heading the Friday afternoon festivities was our Trojan Horse, escorted quite appropriately by Trojan slaves. Saturday afternoon the music of Emmet Carter was available for everyone's listening or dancing pleasure. Then Saturday evening, for the third successive year, we were honored to have chosen as St. Pat's Queen, our own Miss Linda Fitzgerald. Congratulations, Linda.

Prior to St. Pat's, athletics were the center of conversation, as our wrestling and boxing teams obtained third and fourth places respectively. Leading the attack were Don Beuerlein and Reid Bohning. Don received a second place medal while Reid was awarded a first. Congratulations are also extended to coach K. Knobelock, T. Scott, K. Buck, T. Pezza, T. Mills, and M. Hardy for contributing to our success.

### Eta Kappa Nu Holds Smoker

The Gamma Theta Chapter of Eta Kappa Nu held its spring "smoker" Tuesday, March 10, 1959, in Room 107 Norwood Hall. The purpose of the "smoker" was to acquaint the prospective pledges with the members.

After welcoming the prospective pledges, President Jim Hahn outlined the aims and purposes of Eta Kappa Nu. The social part of the evening then got under way. This included the meeting of new pledges as well as enjoying refreshments.

Immediately after the "smoker" a business meeting was held and the following men were elected for pledgeship: Richard Brueggeman, Stephen T. Chuck, Charles L. Coats, James D. Coffman, Duane E. Cowan, John W. Crocker, Morrell C. Diebold, Vernon D. Dunn, Rex Fritts, Naomichi Ito, Robert G. Jones, Robert L. Kelley; Donald R. Killian, John R. Kuntz, N. G. Malek, Bill Marshall, Thomas Martens, William McGovern, Larry K. McNess, Emmitt Reynolds, Ben E. Roseberry, Joseph G. Sargent, Peter E. Simko, Larry L. Stevens, Arnold Studdman, Edward C. Wright, John Woodward. Also elected was E. F. Richards of the E. E. Department. Congratulations to these men.

The pledges will begin pledging Monday, March 23.

### Sig Tau Wins First Place in Float Contest

Talk about a party! What a St. Pat's! We doubt if LeRoy will ever be the same. Of course the highlight of the whole weekend was bringing home the silver punch bowl, representing first place in floats. Great credit must be given to Al Molenbeck who directed the building of our "whale". Thanks from all of us, Al. We were overjoyed to see "Steady Eddie" so happy during the toasting ceremony.

Friday night, after the costume ball, a "beatnick" party with all the trimmings was held. A record dance, after the formal, was held in the house Saturday night. And we mean it was a record. "Honey, would you please stop crying?" "We turned the furnace up."

From the "Things we would liked to have seen during St. Pat's" department: Al's date on roller skates Saturday night. Le Roy with his date over two minutes. R. O. D. with a date? Jer A-asleep. A place for misplaced dates. A glass of water. Cuddles-happy. Fish - without a beard. McGoo with a beard that would cover up his face.

So much for another St. Pat's. We hope next year's is as good as this one was. It's back to the old grind for everyone except graduating seniors.

### Beta Sig Has Some Trouble With a Jeep

Now that St. Pat's is over it seems that a lot of the Big Beta's aren't ready to accept it. "Tapering off" parties, movies, and bull sessions are the most common escape mechanisms. And who doesn't hate to see the end of such a glorious weekend? Little incidents like Stourton losing a truck, Casanova Shaffer on the scent, arguments over nothing, and fabulous parties all team together to make a weekend to remember. 'Tis a shame next year is so far away.

Even though our float won nothing the wolf thereon is now a symbol of our undying effort. But we can claim the title of experts in hte field of pushing a jeep with float. Sure didn't think that darn thing would boil over did you, guys?

Our candidate for knighting, Ron Mueller, didn't get knighted because the blarney stone tipped over and flowed away or some such rot. Ron, since you are so down-hearted perhaps we can whip up a similar ceremony to boost your spirits. Ah, the glories of graduating.

Well, off to the show, study, or sleep. Always decisions!

### SAE Banquet A Big Success

We're happy to report that the banquet was a big success. MSM won in total points with MSM placing first and third. And that was really a layout of food. If you didn't go, you don't know what you missed. But on the other hand I went and don't know what I ate. But it was all good.

The winning papers were thus: First place: Bill Moses, speaking on "Multi-Viscosity Oil as Applied to You the Typical Motorist." Second place: Richard Cooper, speaking on "Characteristics of the Fairey Rotodyne." Third place: Al Cawns, speaking on "Automation in the Machine Shop."

The other three papers were: Sid Green, MSM, speaking on "Methods of Determining Vibration with Strain Gages"; John Warden, Parks, on "Boundry Layer Control"; and Charles Kimball, Parks, on "Industrial Heat Sensing Methods."



VAN DYKE  
Jack Wake, Pi KA

### Glee Club Has a Full Spring Schedule

The MSM Glee Club, which is presently under the direction of Professor John M. Brewer, is an organization created for students who find fellowship in good songs. The Glee Club sings all types of selections from the more classical and religious vein down through the novelty numbers and negro spirituals.

The MSM Glee Club has not been a permanent organization over the years. The club was first formed in the fall of 1921, with about twenty-five members. This club gave various concerts during its duration including one for the benefit of Saint Patrick's celebration in the spring of 1922. The club became inactive about 1923 and didn't start up again until around 1930. This club, under the direction of James Cullison, professor of Geology, was very active by the time of the 1931-32 school term. Unfortunately this fine organization was not permanent, and, because of the depression and declining enrollment, the club disbanded. Other attempts were made before a more permanent Glee Club was formed in 1942. In the 1940's the Glee Club was under the sponsorship and direction of Professor and Mrs. C. H. Black. About 1950, Professor Brewer took over its direction and has directed it ever since with the exception of the years of 1952 and 1953. During this period, Professor A. C. Steinbach replaced Professor Brewer, who was working on graduate work.

The men in the Glee Club don't claim to be professionals, they just like to sing, and they get plenty of chances. During the fall the Glee Club made appearances at the Parents Day Banquet and at Lindenwood College. At Lindenwood a joint concert with the

Girls' Glee Club was given and then a dance afterwards climaxed the trip.

On the spring calendar for the Glee Club, trips are planned to Fort Leonard Wood on April 5th and to Station KOMU-TV at Columbia, Mo., on Friday, April 17. Other occasions at which the Glee Club will participate in yet this season are the honors convocation and commencement. Performances by the Glee Club can hardly be enjoyed more by the audiences than by the singers themselves. All students who like to sing and want to give others enjoyment through music are welcomed to this organization. It is one of the few music organizations existing on the campus. Practice sessions are held every Tuesday evening starting at 6:30 p. m. To join, contact Professor Brewer, director, or Bob Ganninger, president.

### AIEE IRE Holds Election of Officers

Election Results

Don Bardon—IRE Representative.

Joe Charlson—Chairman

Gilbert Hermann—Vice Chairman.

Jim Moses—IRE Secretary.

Dean Dunnigan—AIEE Secretary.

Chester Sturgeon—Treasurer.

Dr. Roger Nolte declined re-nomination at the meeting. Dr. Nolte explained that other obligations and duties and requirements of his time led him to this decision. The local IRE Branch has grown in membership to 8th place in the nation with Dr. Nolte at the helm. On behalf of all of us, Dr. Nolte, "Thanks a lot."

Don Bardon has attended the meetings with more regularity than almost any of the faculty (granted there are exceptions and no reflections are intended here at all). We (the members) recognized and appreciated this interest in our organization and consequently voted Bardon in unanimously. Not only this: you don't have to talk to Mr. Bardon very long before you realize that he sincerely has the students interest at heart. (I heard a rumor that after the meeting he had already challenged the AIEE Counselor. Jim Johnson to a duel of rubber bands and spit balls.)

Now is the time to join AIEE and IRE. AIEE is selling 1½ years membership for the price of one. Lots of fellows join both and with good reason too. Just as medical doctors have their medical associations the Electrical Engineers have the IRE and AIEE. It is not too soon for you sophomores to join either, because next fall you will be juniors and in E. E. up to your ears. Go into the E. E. office at the West End of Norwood Hall and give the pretty secretary your money and she will give you a form to fill out and you are in!



NOVELTY  
Larry Colonna, Theta Kappa Phi



## Pershing Rifles Came to MSM Campus in 1949

Pershing Rifles was founded at the University of Nebraska in 1894. The original company was known as Company A. The members of this company formed a fraternal organization which they called the "Varsity Rifles." They later changed the name to the Pershing Rifles in honor of Lieutenant John Pershing because of his inexhaustible work as PMS&T of the ROTC department on the Nebraska campus. When Lieutenant Pershing arrived at the University of Nebraska he found the morale of the ROTC in poor condition. In order to strengthen the morale he selected a company of cadets to form a crack drill team to enter in competition. Thus bringing honor and prestige to the ROTC at the University of Nebraska. Company A took first place at the maiden competition of the Omaha Competition in 1891.

In 1893 the men of Company A formed the Varsity Rifles. In 1894 they changed the name to Pershing Rifles. Their motto, propounded by Lieutenant Pershing, was "To foster a spirit of friendship and cooperation among men in the military department and to maintain a highly efficient drill company."

From 1900 to 1911 the Pershing Rifles was the most important feature in the military and social life at the University of Nebraska.

After 1911 the organization lost a great deal of its prestige. In 1917 the organization was disbanded and its records burned.

The Pershing Rifles were again formed in 1920 at Nebraska. The new members strove to fill the shoes of the old company. The new organization was made up of advanced ROTC cadets. By 1924 they again reached the heights of

their former prestige and honor. Crack drill teams from all over the United States sent bids in to be allowed to affiliate with the Pershing Rifles. A group at the University of Ohio requested admittance but were refused because they had basic cadets as members. This group threatened to establish a national organization of drill teams with basic cadets as members.

Finally the men at Nebraska revised their rules for membership to include basic cadets. The group at the University of Ohio were taken in as members. Energy was now concentrated to form a strong local chapter at the University of Nebraska and from that to establish the nucleus for a strong national organization. The company at Nebraska sent letters to other drill units on other college campuses. These other units realizing the value of the Pershing Rifles requested membership. In 1928 the national headquarters were established at the University of Nebraska.

At present there are 135 companies in the Pershing Rifles.

The company here at MSM was founded in 1949. The company's designation is Company K. A drill team was formed and have become active in competition. Last year members of the team attended the Cherry Blossom Festival in Washington D. C. The team has also attended the annual competition at the University of Missouri. Last year Jerry Butler won first place in the individual drill team competition. The company here at MSM have made great progress since its establishment and are looking forward to becoming one of the leading organizations on this campus.

### Off The Cuff

(Continued from Page 2)

handkerchief will repeat the theme set by the tie, in a border design. These handkerchiefs are planned to be folded square with a straight border showing about a half inch above the pocket. This ready-made coordination is pretty nifty—you can't help being well dressed.

As winter fades away, you'll start telling yourself that these scientists aren't so bad after all. The new lightweight shirts will come in real handy and you will develop more interest in them. We plan to give you a more complete run-down on these later. However, for the time being, keep a weather eye on the batiste oxfords, the sheer batiste broadcloths nicknamed Air Males, and the cooling colors of the Colorama series—mint green and ice blue.

Incidentally, good grooming plays a most important part in the style picture. We found a useful item the other day—a piece of furniture called a Valet. It has a built-in hanger for your jacket

and a press for your pants. You just hang your pants over the bar, close it, and the next morning you have a new press. It not only keeps a good crease in your pants, but cuts down on tailor bills. There is also a trap on top for keys, change, and other goodies you might have in your pocket. Quite a toy.

Irate gentleman to check-out clerk: "I know they're empty. I ate the stuff while I was waiting in line."—The Reader's Digest.



**RANDY'S SHOE STORE**

Opposite Postoffice  
Rolla, Mo.

A. E. Long, M.S.M., Ex '22, Lois S. Long, William S. Jenks, Jr.  
**LONG INSURANCE AGENCY**  
810 Pine St. ROLLA, MO. Phone EM 4-1414  
"Service Is Our Business"

LIQUOR, WINES, COLD BEER, MAGAZINES, TOBACCO  
**GALE'S PACKAGE STORE**  
703 Pine  
Parking Lot in Rear of Store for Customers

### Date of Easter (Continued from Page 3)

10	9	10	4	5	6	7	8
11	9	3	4	5	6	7	8
12	2	3	4	5	6	7	8
13	2	3	4	5	6	7	1
14	2	3	4	5	6	31*	1
15	2	3	4	5	30*	31	1
16	2	3	4	29*	30	31	1
17	2	3	28*	29	30	31	1
18	2	27*	28	29	30	31	1
19	26*	27	28	29	30	31	1
20	26	27	28	29	30	31	25*
21	26	27	28	29	30	24	25
22	26	27	28	29	23	24	25
23	26	27	28	22	23	24	25

April:

24	23	24	25	19	20	21	22
25	23	24	25	19	20	21	22
26	23	24	18	19	20	21	22
27	23	17	18	19	20	21	22
28	16	17	18	19	20	21	22
29	16	17	18	19	20	21	15

\* March, down to line "April"

Note that the dates are the same for epacts of 24 and 25. To avoid ambiguity in lunar cycles such as the present one, which contain epacts of both 24 and 25, an epact of 25 is called 26 in April.

The year 1959 has a Golden Number of 3, the Epact is 21,

## MSM Alums Are Heads of Firms, Companies

Missouri School of Mines Alumni are at the head of many firms, companies and industries. A few of the alumni that have been elevated to these top positions recently, and been called to our attention are: Fred C. Schneeberger, of the Class of 1925, has been elected to the presidency of Picker X-Ray, Mississippi Valley, Inc., with headquarters in St. Louis, Missouri. Fred has been in the X-Ray business since graduating from MSM.

Ralph C. Graham, of the Class of 1931, is the new president of the Tennessee Gas and Coal Company, a major operating division which handles the oil and gas exploration and production business of Tennessee Gas Transmission Company, of Houston, Texas.

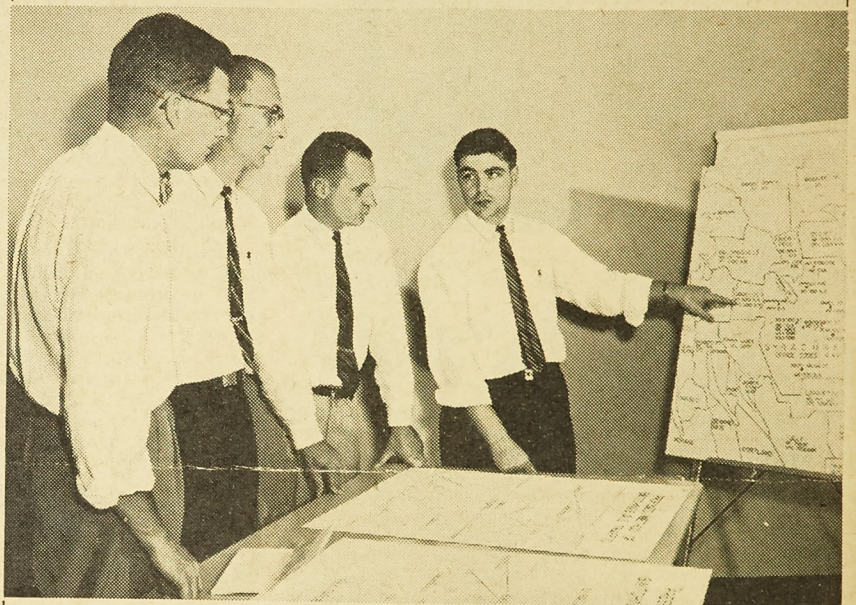
the Solar Cycle is 8, and the Dominical Letter is D. Easter is March 29.

Tennessee Gas is operator of one of the nation's largest pipeline systems. Mr. Graham joined Tennessee Gas Transmission Company in 1945 as their chief geologist.

James P. Gill, of the Class of 1918, has been chosen as Chairman of the Board of Directors and President of Vanadium-Alloys Steel Company, Latrobe, Pennsylvania. Mr. Gill is a widely known metallurgist and an authority on tool steels. He has written several books and more than 40 articles on the subject. He holds 10 patents on compositions and heat treatment of special steels. In 1946, the School of Mines awarded him an honorary Doctor of Engineering degree.

Mervin J. Kelly, of the Class of 1914, has been President of Bell Telephone Laboratories, now has been elected Chairman of the Board of the Laboratories. Mr. Kelly is one of the many illustrious alumni of MSM who has received national and international acclaim for his many contributions to the engineering profession. His accomplishments and the honors that have been bestowed upon him are legion.

### A Campus-to-Career Case History



Bill Burns (far right) reviews a plan for expanding Syracuse's toll-free calling area with some fellow supervisors.

### He wanted more than "just an engineering job"

William G. Burns majored in Civil Engineering at Union College. But he had his own ideas about his engineering future. "I wanted a job with a 'growth' company," he says, "where I could develop and move ahead as a member of management."

Bill found his 'growth' company—and his management opportunity. On graduating in June, 1954, he started work with the New York Telephone Company.

Six months of training and job assignments in Albany familiarized him with the Plant, Commercial, Accounting and Traffic functions of the telephone business. Then came 18 months as engineer in the Long Range Planning Group. In October, 1956, he was promoted to Supervising Engineer.

Bill was transferred to Syracuse in

August, 1958, as Supervising Engineer—Fundamental Plans, with a staff of four engineers and two clerks. In this job, he studies and forecasts the future telephone needs of customers in a 4800-square-mile area, planning from three to 20 years ahead. He then co-ordinates the development of plans to meet future needs with the various engineering groups involved. Bill calls it "management engineering."

Bill is married, has three youngsters and owns his own home. "A man has to build his own security," he says, "and finding the right place to do it can be mighty important. Choosing a Bell Telephone career was the best decision I ever made. I don't know where an ambitious young fellow can find more or better chances to move ahead in management."



**BELL TELEPHONE COMPANIES**

Many young men, with degrees in the sciences, arts, engineering or business, are finding interesting and rewarding careers with the Bell Telephone Companies. Look into career opportunities for you. Talk with the Bell interviewer when he visits your campus. And read the Bell Telephone booklet on file in your Placement Office.



# Mr. and Mrs. John H. Bowles Establish Scholarship for Deserving Students

Mr. and Mrs. John H. Bowles of Lake Spring, Missouri, have established a scholarship which will provide \$400 annually for a junior or senior student at the University of Missouri's School of Mines and Metallurgy here, it was announced today by Dean Curtis L. Wilson.

Mr. Bowles is an alumnus of the School of Mines and Metallurgy who has retired after an active and colorful career in the mining industry following his graduation here in 1908. He also holds a master's degree from the University that he received in 1921.

Dean Wilson said the fund will be known as the Blanche and John H. Bowles Scholarship Fund. It consists of a substantial gift of stocks in an industrial company, the income from which is to be used for the annual scholarship award.

If the yield from the principal should fail to amount to \$400 in a year, Mr. and Mrs. Bowles have asked the privilege of making up the difference in cash.

Dean Wilson said it was the expressed wish of Mr. and Mrs. Bowles that \$200 of each year's stipend be awarded as an outright gift to the recipient, and the other \$200 be considered in the nature of a loan to be repaid, without interest, one year after the student's graduation. This repay-



Mr. and Mrs. John H. Bowles

ment would be added to the principal to held assure perpetuation of the scholarship.

He said the Board of Curators and University President Elmer Ellis approved this provision and have made it a stipulation of the scholarship.

The scholarship will be awarded each year to a junior or senior to help him complete that year of school. The recipient is to be selected on recommendation of the dean of the School of Mines and Metallurgy, and selection will be on the basis of his personality, scholarship, and need.

Mr. Bowles has long held an

active interest in his alma mater. As a student here he had the unusual distinction of missing the first St. Patrick's Day celebration held at the School of Mines, although he was one of those interested in its establishment.

St. Patrick's Day had become firmly established at the College of Engineering of the University of Missouri on the Columbia campus, where the engineering students had "discovered" that St. Patrick was really an engineer and had inaugurated him their patron saint. In 1907 the students on the Rolla campus delegated John

(Continued on Page 8)

**Tucker's**

Quality  Checkd  
DAIRY PRODUCTS

## UPTOWN THEATRE MOVIES IN CINEMASCOPE

Thursday, Friday and Saturday,  
March 19-20-21

### 'Ride Lonesome'

Randolph Scott and Karen Steele

Sunday and Monday, Mar. 22-23

Sunday Continuous from 1 p.m.

### 'Onionhead'

Andy Griffith and Felicia Farr

Tuesday-Wednesday, Mar. 24-25

### 'Too Much Too Soon'

Dorothy Malone and Errol Flynn

## RITZ THEATRE MOVIES ON WIDE SCREEN

Friday and Saturday, Mar. 20-21

Saturday continuous from 1 p.m.

### 'Hell's Five Hours'

Stephen McNally, Colleen Gray

— PLUS —

### 'The Fiend Who Walked the West'

Hugh O'Brian and Robert Evans

Sunday, Monday and Tuesday,  
March 22-23-24

Sunday Continuous from 1 p.m.

### 'Senior Prom'

Jill Corey and Paul Hompton

— PLUS —

### 'A Time to Love'

John Gavin and Lilo Pulver

Wednesday-Thursday, Mar. 25-26

Adm. 15c and 35c

### 'China Doll'

Victor Mature and Li Li Hua

— PLUS —

### 'Gideon of Scotland Yard'

Jack Hawkins, Dianne Foster

They said it couldn't  
be done...  
They said nobody  
could do it...  
but —

L&M is  
**Low**  
in tar

with  
**MORE**  
taste to it



Don't settle for one without the other?



"L&M is kindest to your taste," says TV's George Gobel. "There are two mighty good reasons why I think you'll go for 'em. They're truly low in tar, with more exciting taste than you'll find in any other cigarette."

**LOW TAR:** L&M's patented filtering process adds extra filter fibers electrostatically, crosswise to the stream of smoke... makes L&M truly low in tar.

**MORE TASTE:** L&M's rich mixture of slow burning tobaccos brings you more exciting taste than any other cigarette.

**LIVE MODERN...CHANGE TO MODERN L&M**

© 1959 Liggett & Myers Tobacco Company



**BOWLES SCHOLARSHIP**

(Continued from Page 7)

Bowles to go to Columbia to ascertain the proper program for a St. Pat's celebration. While he was gone impatience overcame the Rolla campus and students held their first St. Pat's celebration without him. It is still an annual affair.

As a mining engineer, Mr. Bowles was connected for many years with the Potter Palmer Estate in Chicago, and his work took him to many parts of the world. Upon his retirement, he returned with his family to his boyhood home at Lake Spring in Dent County. A son, Joe Ed, remains with his parents, while a daughter, Ruth, is a senior in the School of Fine Arts at Washington University in St. Louis.

**SSCQT Applications**

(Continued from Page 1)

administers the College Qualification Test for the Selective Service System, it will be greatly to the student's advantage to file his application at once. The results will be reported to the student's Selective Service local board of jurisdiction for use in considering his deferment as a student.

**POLIO VACCINATION**

The number of inoculations for polio dropped off during December as was expected. The final order for vaccine under the federal program amounting to 2,176 vials was submitted late in December.

**All Heavy Smokers Face Certain Lung Cancer**

A world-famous chest surgeon makes a grim prediction in the March Reader's Digest. Says Dr. Alton Ochsner: "Every heavy smoker will develop lung cancer—unless heart disease or some other sickness claims him first." Of every 100 persons who develop the disease, only five will be alive five years later.

In an article condensed from a publication of the American Medical Association, Dr. Ochsner tells author J. D. Ratcliff that lung cancer's toll in the United States has leaped from 2500 in 1930 to an estimated 35,000 last year. Cigarette sales for the same period rose in almost identical proportion.

No self-respecting gambler would accept the odds that face lung-cancer victims. Of every hundred cases, 45 are so ravaged by the time they see a doctor that surgery is a waste of time. Another eleven die on the operating

table. Twelve more have their chests closed without further surgery after inspection shows them to be hopeless; they die within a few months.

The remaining 32 face one of the most massive operations in the usually delicate surgical domain. Days of pain follow these operations. Even worse, every patient must endure at least five years of agonized suspense before he can be considered cured. Only five of

the original 100 victims survive these five years.

The rapid growth of lung cancer makes early discovery imperative. Every heavy smoker over 40 owes himself the minimum protection of having a chest X-ray at least every six months, preferably every three months. With such precaution, Dr. Ochsner believes, lung cancer might

become 50 per cent curable, instead of 95 per cent fatal. The article, "The Growing Horror of Lung Cancer," is condensed from *Today's Health*.

Safe driving and a moderate rate of speed requires nothing but self-control and a good strong rear bumper.

**PIZZA**  
MEAL TICKETS AND SPECIAL RATES FOR MINERS  
**CAL-MO CAFE**  
11th and Highway 63 Open 7 Days a Week

EXPERT  
Watch Repair  
and  
Jewelry  
at  
Fuller  
Jewelry  
711 Pine St.

**AUTOMATIC LAUNDRY**  
FAST SERVICE—INDIVIDUAL WASHERS  
COMPLETE BACHELOR LAUNDRY SERVICE  
Freshman Friendship Coupons Redeemed  
**Laundry - Dry Cleaning - Shirts**  
Corner 7th and Rolla Sts. Open 7:30 to 6

# THINKLISH

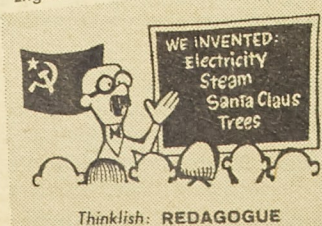
**English: LIARS' CLUB**

**Thinklish translation:** These guys know stories so tall they tell 'em with skywriting! Their imaginations are so wild they keep them in cages! The one thing they don't lie about—as you might have guessed—is the honest taste of a Lucky Strike. (Fine tobacco is fine with them!) In Thinklish, this bunch is a *bragggregation*! And that's no lie.

## MAKE \$25

Start talking our language—we've got hundreds of checks just itching to go! We're paying \$25 each for the Thinklish words judged best! Thinklish is easy: it's new words from two words—like those on this page. Send yours to Lucky Strike, Box 67A, Mt. Vernon, N. Y. Enclose your name, address, college and class.

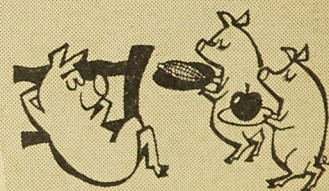
Get the genuine article  
**Get the honest taste**  
of a **LUCKY STRIKE**

**English: RUSSIAN SCHOOLTEACHER****Thinklish: REDAGOGUE**

RONALD GODDARD, KANSAS CITY JR. COLL.

**English: MARTINI RECIPE****Thinklish: GINFORMATION**

NORMAN FORTNER, WAYNE STATE U.

**English: HOG WITH TWO WIVES****Thinklish: PIGAMIST**

CHRISTINE JENSEN, MONTANA STATE U.

**English: MUDDY HIGHWAY****Thinklish: CHURNPIKE**

ELMER FROEWISS, SEATTLE U.



When you're  
ready for a  
beer...  
cold, flavorful,  
clear...  
**THIS IS THE ONE!**



**AMERICA'S  
PREMIUM QUALITY  
BEER**

FALSTAFF BREWING CORPORATION, ST. LOUIS, MO.

**MUELLER  
Distributing Co.**  
Rolla, Mo.