



14 Dec 1962

The Missouri Miner, December 14, 1962

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MSM Receives Stipend From United Student Fund

Dean Curtis L. Wilson, has announced that the School is the recipient of a \$1,000 contribution from the Alumni Association of the School. The contribution is made by the Association to the United Student Aid Fund which will provide loan funds up to twelve and one half times the amount of the contribution, available to students at the School through local banks and underwritten by the United Student Aid Fund.

The United Student Aid Fund is a private, non-profit service corporation which endorses low-cost, long term loans made by local banks to needy college students. The United Student Aid Funds serves as an intermediary between the student's public-spirited hometown bank (which makes the loan at cost or below) and the student's college (which underwrites the loan by depositing funds in the United Student Aid Funds reserve).

Clark, Martin, Named Blue Key Men For Month of November and December

For the month of November the members of Blue Key have selected Clint Clark as the Blue Key Man of the month. Clint "Bo" Clark, who hails from St. Louis, Mo., is a graduate of Christian Brothers College, and came to this campus in September of 1959. Since he has been on this campus he has been very active in extra-curricular activities as well as his school work, and has acquired many honors. Some of these include: President of the Student Council; President of Alpha Sigma Mu, Metallurgical Honor Society; President and Vice President of Kappa Sigma social fraternity; President and Secretary

of ASM; Vice President of Blue Key, national service fraternity; Vice President of Student Union Board; and Treasurer of AIME. He is a member of Tau Beta Pi, Phi Kappa Phi, Alpha Chi Sigma, and has been elected to Who's Who for two consecutive years. "Bo" has held a very distinguished grade point of well above 3.00 and has received the Kenecott & Alcoa Scholarships. Congratulations to a true leader and a deserving recipient of the (Continued on Page 4)

MSM Fraternities Attend National IFC Convention

Friday, November 30 and Saturday, December 1, 1962, was a time to be remembered by most Miners, that is, socially. But in the eyes of fraternity men, it should have a little more significance. Three members of the IFC, here at Missouri School of Mines, attended the four-day National Interfraternity Council Convention in Pittsburgh that weekend.

The representatives to the convention were: Bill Ligon (Triangle), President of the IFC; Doug Told, Acacia's senior member; and Lonnie Shalton, Sigma Nu's junior member. They returned with many helpful ideas, which were formed either in comparison or contrast to the operations of other fraternity systems all over the country.

Discussions covered such subjects as rushing and pledging, leadership, scholarship, and many other important aspects of fraternity life. The main emphasis at the convention was put on the change in the fraternity systems as compared with the great change (Continued on Page 6)

Presidents Go To Hear Dean

On Wednesday evening, November 19, the presidents of various campus organizations gathered in the Student Union for a banquet intended to become a regular occasion every semester. Those invited were the presidents of (Continued on Page 3)

The Missouri MINER

MISSOURI SCHOOL OF MINES AND METALLURGY

VOLUME 49

FRIDAY, DECEMBER 14, 1962

NUMBER 14

Mr. Kwame S. Adusei-Poku Featured at General Lecture

On Friday evening, December 7, a delegate to the U.N. from Ghana, Mr. Kwame S. Adusei-Poku gave one of the most informative and interesting lectures of the year. His talk was mainly on the political, economic, and cultural structures of the newly independent African nations and the part that these nations play in the U.N.

Mr. Adusei-Poku, a very gifted speaker, said that the position of the newly formed African countries is very delicate. There is always the fear that the colonial powers will step back in and take these nations, once more under their control. The unrest in South Africa where a few Europeans control many Africans seems to be a brewing timespot. It is feared that the Africans will take things into their own hands to

gain their independence like the Algerians did.

Economically speaking the new countries are presently very backward. It now takes about 65 per cent of all the people in Africa just to feed the population. Due to improved farming techniques this number is steadily decreasing but this resents another problem. More of the Africans leave the farms and go to the cities which are not equipped to handle the problems of larger populations. To treat these problems, the national government has to control

almost every phase of improvement. This is the main reason, Mr. Adusei-Poku said, that the complexity of most of the African countries is socialistic.

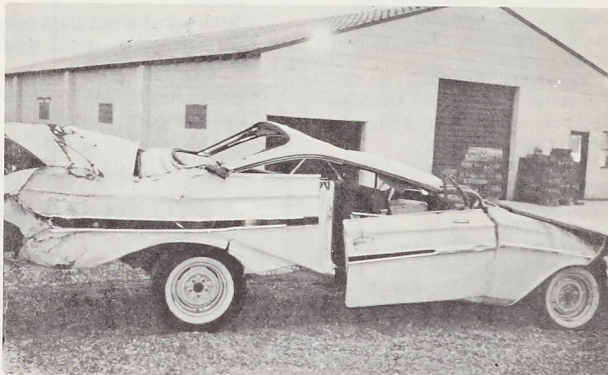
He said that the only way Africa can truly prosper is if all the small countries will join together. He used the United States as an example. If the colonies would not have become united, the United States would never be the country it is today. One of the big problems against their combining, however, is the mark- (Continued on Page 8)

Wreck Placed on Campus To Promote Safe Driving

Yesterday a wrecked 1961 Chevrolet was placed on campus to remind everyone to drive safely

ent Body Shop.

The Miner, together with the Beta Omicron Chapter of Alpha



Drive Safely During Christmas Vacation.

over the holidays. The car, which side swiped a tree and rolled over three times was donated by Mr. William Henry of the Independent

Phi Omega, would like to remind everyone to drive safely and would like to take this opportunity to wish everyone a merry Christmas.

Tau Beta Pi Association Performs Many Services

The Tau Beta Pi Association, the society's official name, is a national engineering honor society. It was established to mark in a fitting manner those who have conferred honor upon their Alma Mater by distinguished scholarship and exemplary character as undergraduates in engineering, and to foster a spirit of liberal culture in the engineering colleges of America.

Tau Beta Pi was founded at Lehigh University on June 15, 1885, by Dr. Edward Williams, Jr. Its beginning started when Dr. Williams tried to secure for Lehigh a chapter of Phi Beta Kappa but it was found that its

policies debarred from membership all technical students and also they accepted only graduating seniors.

What Dr. Williams wanted was an honorary fraternity which was based upon an honorary reward for high scholarship which would be open to every student in every department. When it became clear that this could not be accomplished through Phi Beta Kappa, Dr. Williams tried to furnish the students of technical schools with something of a similar nature. This was the very beginning of Tau Beta Pi. From this first chapter at Lehigh University in 1885, it has steadily grown to 109 undergraduate chapters throughout the United States.

The Missouri Beta chapter was established on the Missouri School of Mines campus on December 21, 1906. As of July 31, 1961 the Missouri Beta chapter has initiated 1600 members. It now averages forty to fifty new initiates each semester.

The Fellowship Program is the major tangible objective of Tau Beta Pi. It is a time-proven idea which has opened a splendid new field of opportunity for the honor society. From the first, the purpose has been to finance, for a select group of members chosen for merit and need, a year of graduate study at any college in any field of engineering, requiring only that the applicant shall have a definite purpose.

The Student Loan Fund is also a part of Tau Beta Pi. The resources of this fund are available at any time to student members who otherwise would be without sufficient money to remain in college until the current year or to complete their course.

Here at MSM the Tau Beta (Continued on Page 6)

District Chorus To Be Conducted By MSM Director

The Missouri School of Mines and Metallurgy's Director of Bands, David L. Oakley, will conduct the South Central Missouri Music Educators association all-district band on December 15th. The select 55 member group was chosen from students who competed for the honor from schools in the several county district.

Dr. Kenneth L. Dustman of the music department of the Southwest Missouri State College will conduct the South Central Missouri Music Educators Association all district chorus on December 15th.

The band and chorus will present a concert, open to the public at 7 p.m. on Saturday, December 15 at the Ballroom of the Student Union Building of the Missouri School of Mines and Metallurgy in Rolla.

The Science Advisory Committee Meets at MSM

Governor John M. Dalton's Science Advisory Committee met Saturday December 9th at the Student Union Building of the Missouri School of Mines and Metallurgy. The 16 member educator-industrialist committee was organized last January with these objectives before it as stated by the Governor:

1. To aid the progress of science in Missouri;
2. To promote the use of science in stimulating the State's economy;
3. To suggest areas of scientific effort that may help solve problems of industrial development in Missouri;
4. To apply science to the more effective use of the State's natural resources.

Following the committee meeting on the 9th of December, there was a luncheon at the School of Mines and Metallurgy Student

Union for the group at which some of the chairmen of the School's departments engaged in scientific and engineering research explained the scope of research now in effect at the School.

Members of the Committee are: Dean Curtis L. Wilson and Dr. D. S. Eppelsheimer of the Missouri School of Mines and Metallurgy; Dr. Raymond E. Peck and Dr. John F. Lasley of the University of Missouri; Dr. Leonard C. Jones and Dr. James F. McGee of St. Louis University; Dr. De Vere W. Ryckman and Dr. Robert Varney of Washington University; Vice President Barndt L. Kolker of Kansas City University; President William H. Schechter of Tarkio College; Dr. Albert E. Lombard, Jr. of McDonnell Aircraft Corporation; Dr. John I. Parcel of Sverdrup, Parcel and Associates; Dr. Nat C. (Continued on Page 6)

Miner Editorials

The Three Hour Lab Lecture

The three hour lab-lecture is unfortunate. No student can absorb material for three hours and expect to retain a reasonable percentage of it. Any professor who continually has to give such a lecture, even with a break, should have his course material reviewed by the school.

Many courses have to cover more material than the scheduled lecture time allows. These courses should have sufficient lecture hours added and their labs should not be violated the way they are. If these courses have to be expanded on a credit hour basis, they should be.

We have in the past advocated a five year school. This is just one if many faults that might be corrected by a five year program.

Keep Christ in Christmas

Christmas is near and already decorations are being put up to remind us of its coming.

The Miner would like to take this opportunity to wish everyone a Merry Christmas and ask that Christ be kept in Christmas.

The reason for Christmas is to commemorate the birth of Jesus Christ. It is therefore only right that his name be kept in Christmas.

The Miner would furthermore like to recommend that any attempt to take Christ out of Christmas be opposed and that stores displaying "Xmas" signs not be patronized.

Student Council Minutes

A letter was read from Prof. G. G. Skitek thanking the Council for help on Engineers' Day.

Publicity—W. Norfleet reported the Nativity scene would be put up by the Council.

A page in the Miner is to be devoted to the Student Council; activities, functions, etc.

Traffic—W. Norfleet stated the committee was in favor of a court setup in traffic regulations. He suggested having more members on the committee with a rotation of members.

Library—P. Kettler reported research had been done on other states' systems for granting schools money.

Presidents' Banquet—B. Farrell stated the banquet was a success and another was being planned for next semester.

Constitution—Wayne Benz reported work was being done to have organizations turn in new constitutions.

MIAA—The date for the convention is still undecided, as reported by Kelly Martin. He stated our main point at the convention would be to have all MIAA schools honor student activity cards.

Public Affairs—A discussion of registration efficiency was held. Larry Gilmartin mentioned greeting visitors and also the possibility of a general information booth for Engineers' Day, etc.

OLD BUSINESS

Prices for a Missouri State Flag are being looked into.

J. Kettler reported on the book of officers of MSM organizations.

NEW BUSINESS

The motion was made by Wayne

Benz and seconded by Jim Christen to have the Student Council request that each student organization furnish the constitution Committee of the Student Council with four (4) copies of its most recent revision of its constitution, by-laws, and amendments by February 26, 1962. Motion carried.

Kelly Martin moved the Council buy fifteen (15) letters for the cheerleaders' uniforms, these to be kept by the girls. Motion was seconded by Denny Meehan. Motion carried.

Ed Benn asked about trash cans for candy wrappers, paper cups, etc. for campus.

T. Wilson moved that the meeting be adjourned. Seconded by D. Meehan. Meeting adjourned.

Economic Interests Hold Back Peace Race

Jon Mastin

Not only individuals, but whole communities are caught up in the economic side of the arms race. When government indicates it wants to close down a military installation, does the chamber of commerce in the nearby community sponsor a festival to celebrate the freeing of the economy from the arms race? Or does it immediately send a delegation to Washington in a last-ditch effort to get the decision reversed?

What this boils down to is that secular economic interests are feeding the fires of the cold war so they can continue to stay on the defense contract gravy train. These industries wield tremendous influence in defense appropriations through lobbying, and other means. Defense spending is like pouring money down a bottomless pit because the products developed do not find their way into civilian channels of trade.

One tenth of this nations labor force is employed either directly by the military organization or under defense contracts. Due to the multiplier effect this pyramids into other industries so that it is estimated that one fourth of the nations labor force is indirectly associated with the arms race, or defense spending.

This represents a large number of voters and companies to be kept pacified by the politicians in office. Obviously these economic interests do not want disarmament to be accomplished. There would be a large number of topflight military men and administrative personnel in defense industries left temporarily without positions. These people will do most anything in their power

to maintain the status quo; after all, who wants to be a peon in the peace race, when you can be one of the top dogs in the arms race?

The fact that many people believe that disarmament could be disastrous has been demonstrated by many public polls. The average citizen thinks that disarmament would lead to economic chaos and depression. This is even reflected by the big money voices of our country in the way the stock market jumps every time a large appropriation for defense is passed in congress. It is also interesting to note that stock prices often lag in times when disarmament and peace seem possible.

Very few companies believe that the cold war will be terminated in the near future. Most of the companies which share in the defense gravy train haven't even made studies of what to do in case disarmament becomes a reality rather than a mere dream. Policy making decisions of defense industries are often over shadowed by retired military personnel working for the companies. One large company has twenty-six retired generals and admirals on their payroll.

Preparations and plans for peace should be made just as carefully as the plans for an all out war. Otherwise, disarmament could mean a time of economic catastrophe. Disarmament will not happen overnight, even after the agreements have been ratified by the nations. It will take time to develop the inspection and peace keeping machinery required for workable world disarmament.

Information to Blood Donors

If you receive Red Cross Blood it is free to you. Not all hospitals use Red Cross Blood, but if they do, you do not pay for it. You do pay the hospital for the administration of this blood to you. The Phelps County Hospital uses Red Cross Blood.

If you have been charged for Red Cross Blood, please bring your bill to the Red Cross Office in Rolla so that we can help straighten this matter out. Be sure it is the blood and not for the hospital fee for administering the blood.

Red Cross blood is a gift from one person to another. We need your help to carry on this life-saving program. We have visits of the Bloodmobile four times a year. The question is often asked "How often can I give blood?" We are informed that you may give up to five times a year. At each visit of the Bloodmobile doctors and nurses are present at all times, to make sure you are in physical condition to give.

Last year 742 pints were given in Phelps County. We try to get 200 pints at each visit, but sometimes we do not make it.

If you have questions regarding this Blood Program, please come to the Red Cross office and we will be glad to discuss this with you.

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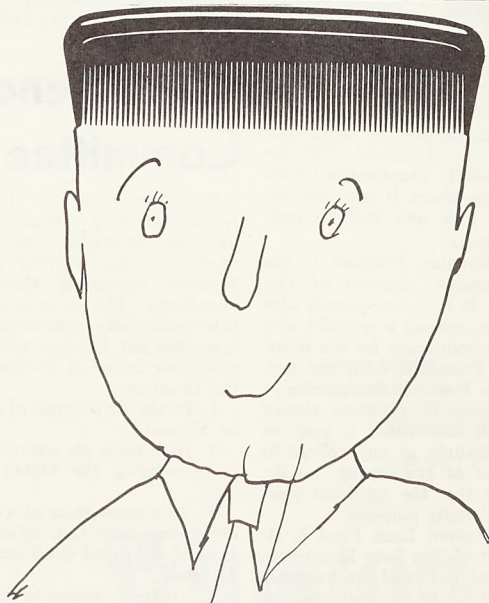
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THE MISSOURI MINER

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.

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Editor-in-Chief Hugh Murray
707 State St.—EM 4-2731
Business Manager John Gladysiewicz
500 W. 8th St.—EM 4-3787
Managing Editor D. F. John
Make Up Editor David Blume
Copy Editor Greg Junge
Features Editor Charles Becker
Advertising Manager Scott Carriere
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Ladd Plumley Discusses the Federal Economic Policies

(Editors Note: The following was a speech given by Ladd Plumley, President of the Chamber of Commerce of the United States, dealing with the economic policies of the Federal Government.)

I approach this meeting tonight with mingled feelings of pleasure, surprise and trepidation; pleasure because I am naturally gratified at this opportunity of speaking to Harvard Alumni organization here in my native New England; surprise that so many of you have been left behind on this outpost of the New Frontier; and trepidation at the thought of discussing before so knowledgeable a group a subject so complex as the business-government relationship.

But, as you might have guessed from the title of this speech, I am first of all inspired by Harvard's splendid motto—Veritas—and I am furthermore an incurable believer in such tested old maxims as "Fools Rush In," and "Faint Heart Never Won,"—so I am persuaded to "set sail and not lie till in the harbor," in accordance

with a recent admonition from the New Frontier.

Not long ago, a distinguished Harvard alumnus reminded us rather pointedly of another tried and true adage: we live in our own times and must never, never apply the solutions of the past to the problems of the present. Those lines were delivered to a Yale graduating class, but I suspect they were intended for some of us in the business community.

It was suggested at this New Haven exercise that the American businessman has fallen victim to a distracting mythology about the role of government in our society; that he is enthralled by stale cliches which hamper the monumental job of making this American system work. Well, a word to the wise is sufficient for me, so you find me here tonight casting a rather reluctant vote for disenchantment. I have come before you to disown some of my long loved cliches and to ask in turn that government cast out into the snow some of its own favorites

which have become too old and tired to meet today's realities.

You will understand that this is a hard task for one who learned at his grandfather's knee that you always repent at leisure for decisions made in haste. But, nothing ventured nothing gained and the area for cliché-trading is temptingly broad. Business might, for example give up that old, familiar saying, "Big Government is Always Bad" in exchange for "Federal Money is Free." The possibilities and the mutual benefit of cliché-trading are boundless.

Thus, partially burying the hatchet and putting our best foot forward (instead of into our mouths), let us proceed to examine some of the cliches that have grown old in service on both sides of this dialogue between government and business. With such a beginning, we may even avoid the bog of sterile acrimony and, perhaps, discover that our areas of disagreement are not as wide as had been thought. I say "perhaps," because it is a well known fact that you can't teach an old dog new tricks.

Let me say here that I find myself substantially in agreement with President Kennedy on the need for fresh winds of thought to sweep away many of the most cherished myths on both sides of this dialogue—myths which are hampering our search for solutions to our national problems. I agree that there is need for a better understanding by businessmen of the role of government in our society. I, too, want to get the country moving, but at the same time I want to make sure it is not merely moving in circles of doubt and indecision.

I, for one, do not believe that government is the natural sworn enemy of business, any more than I think that business is the enemy of government. But in the heat of debate, anger is a weapon that often comes to hand more readily than reason. Or, as the old maxim has it, we often cut off our noses to spite our faces. I hope we can avoid such extremes in the dialogue which the President has invited and, instead, concentrate our energies on the actual issues which appear to divide us.

I believe there is recognition on both sides that the public welfare, the stability of our government,

and the fulfillment of this nation's awesome commitments around the world depend primarily upon the health and vigor of America's free private enterprise system. I believe, too, that businessmen have a realistic awareness of the need for a government apparatus big enough to handle the enormous tasks that confront the American people today in domestic and foreign affairs. Anarchists do not make good businessmen, and businessmen do not make good anarchists.

Where we seem to fall out is over the extent and direction of government intervention in the workings of the free private enterprise system. On the government side, there would seem to be less than full recognition of the important fact that this system operates on the sum total of the daily decisions of many millions of people—industrialists, shopkeepers, builders, consumers all of us. The collective force of those decisions determines whether our economy is to stumble or move vigorously forward. The businessman who must risk his capital on long-term commitments is not

seeking an iron-clad guarantee of profit (although that might be attractive), but rather he wants reasonable assurance that the course of his government is sound and predictable, that the system under which he is operating will not be changed overnight by fiat or fiddling on high.

The business who finds himself engaged in this dialogue with his government has many questions which merit clear and dispassionate answers. He asks a clear exposition of the role which the President would assign to the federal budget, to deficit financing, and to tax policy in the influencing of our economy by government. How much or how little government control does the common welfare demand? How much of the camel's nose is really needed in the tent?

I have observed a mild note of exasperation but little solid information in the comments that emanate from Washington when these questions are raised. Perhaps we have not been hearing too well amid the crash of collapsing myths on the New Frontier. Or

(Continued on Page 4)

Joe Wooldridge Attacked And Robbed for 3 Dollars

On the night of December 9th, at about 6:00 p.m., an MSM student, Joe Wooldridge, was walking back from supper at the Student Union heading for his fraternity house when he was waylaid by two men between the Math and Old Cafeteria buildings.

One man approached Joe, asking for a light, and the moment the student reached into his pocket a second person came from behind and slugged him, knocking Joe unconscious. After apparently rummaging through his coat and wallet, they threw his coat, shoes, and wallet into a nearby window well, leaving him in the cold. All they got for their efforts was about three dollars.

An hour elapsed before Joe faintly remembered stumbling into the infirmary seeking help. It is not known whether he laid there in the passageway all that time, was dragged to another spot on campus, or whether he was wandering about not knowing where he was.

After being taken into the infirmary, his fraternity brothers at Kappa Alpha were notified and they promptly came over and took him to the hospital where he received emergency treatment for his injury. At this moment he is recovering and should return to school shortly.

It is hoped that such criminal actions are not going to happen here at this campus another time. It is not known who the assailants

were, since it was too dark and the one man's face was partially covered. But Joe did say that he was an older man, indicating no young person or student was responsible. At any rate, students and all citizens alike, hope that such hoodlums will be apprehended and a proper justice will be handed them for this cowardly and criminal attack.

Dean's Talk

(Continued From Page 1)

Student Council, Student Union, I. F. C., St. Pat's Board, Dorms, Eating Clubs, G. D. I., Board of Governors, I. C. C., Social Fraternities, Blue Key, A. P. O., Theta Tau, and the Editors of the Miner and Rollamo, plus Mayor Northern, Dean Wilson, Dean Ponder, Den Herskowitz, and Prof Lloyd.

The purpose of the banquet to establish friendly relations between the leaders of the different organizations on our campus.

The highlight of the banquet was a speech given by Dean Curtis L. Wilson on "Leadership on Campus."

In the future it is hoped to have various leaders from town and the faculty as guests so as to promote better relationship between the students and the school and among the students themselves.

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Ford Instrument Provides Cornell Grad Fellowship

The Hannibal C. Ford Fellowship for advanced study in the Graduate School at Cornell University has been established by the Ford Instrument Company to provide an annual fund to enable an outstanding graduate from an engineering college to pursue full-time study in mechanical engineering physics, or mechanics and materials to proceed toward a higher degree. The \$4,000 Fellowship will pay the university expenses for tuition, fees and similar cost and give the recipient a cash stipend of \$2,500. He will have

complete freedom of investigation into any branch of these fields of study in the Graduate School of Cornell. It is hoped by this Fellowship to encourage, in the first year of study at graduate level, talents and abilities in original scientific work so well exemplified by Hannibal C. Ford, Cornell, 1903, inventor, scientist, designer and electro-mechanical genius, one of the nation's pioneers in the development of ordnance and navigational controls and computers, and founder of the company which bears his name.

Information About the Hannibal C. Ford Fellowship

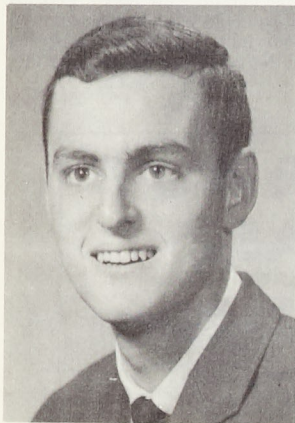
1. The Hannibal C. Ford Fellowship is a grant of \$4,000 made available to Cornell University for expense in connection with the Fellowship. It is open to students in their first year of graduate study, or to those who have completed no more than a limited amount of auxiliary study at graduate level. The recipient will receive a stipend of \$2,500 plus free tuition and fees.
2. The Hannibal C. Ford Fellowship is open to American citizens of sound character and of scholastic standing and initiative determined by the Cornell University Graduate School in accordance with its highest standards.
3. The Fellowship will allow study in the departments of Electrical, Engineering, Mechanical Engineering, Engineering Physics, and Mechanics and Materials. The work shall be toward a higher degree in one of these fields.
4. In no way does Ford Instrument Company require that the successful candidate go to work for the company previous to or following the completion of the study provided. However, the Ford Instrument Company will feel free to offer a position to the candidate for the summer before or immediately after the study at Cornell should the company so desire.
5. Applicants for the Hannibal C. Ford Fellowship should write to the Dean of the Graduate

(Continued on Page 5)

BLUE KEY MAN-OF-MONTH

(Continued From Page 1)

Blue Key Man of the Month award.



CLINT CLARK

As the "Man of the Month" for December the members of Blue Key have chosen Wade Martin. Wade is a graduate of Mexico High School in Mexico, Mo., and came to this campus in September of 1958.

Besides carrying a very re-



WADE MARTIN

spectable grade point, he has distinguished himself by his participation in many campus organizations. Some of his more outstanding accomplishments are: President of the Military Ball Board, Secretary of Blue Key, Treasurer of Theta Tau, Secretary and Vice President of Delta Sigma Phi, Secretary and Vice President of Society of American Military Engineers, Member of Pershing Rifles, Independents, Chi Epsilon, Tau Beta Pi, Phi Kappa Phi and Who's Who. He is also recipient of a curators award, the Red Foureagre, the Silver Key Award, and the Distinguished Military Student Award.

PLUMLEY SPEECH

(Continued From Page 3)

perhaps something is really missing from the dialogue. I am prepared to give up the cliches of my forebears if they are really standing in the way of progress, but I do not hold that all government cliches are self-evident. We are told, for instance, that the government isn't really as big as it looks and anyway the boy isn't growing as fast as he used to, so would everyone please stop worrying about him? But he goes right on outgrowing those expensive clothes and eating all the food in the house.

Another popular cliché that enjoys wide circulation today is that there is no need for concern over the federal debt because it has been expanding less rapidly than the economy as a whole. But when we examine this shop-worn myth, we look in vain for any valid relationship between the size of the national debt and the size of the Gross National Product; as a matter of financial logic perhaps they should vary in inverse ratio. I hope I may be forgiven for thinking that we just might operate as well with a zero national debt as with a debt of 300 billion dollars. But, as Grandfather would say, there's no use crying over spilt milk, and all that money won't buy happiness, but I would remind the old gentleman that what goes up does not always come down.

The growth of private debt, both business and personal, does have a relationship to the growth of our national economy, and it is also reasonable to expect that state and local governments must increase their borrowings to provide the schools, highways and other public facilities required by their rising populations. But this

is a long way from being relevant to the federal debt, since it is only in the event of a major crisis that there is need for sharp increases in the national government's spending without a concurrent rise in revenues. Or, as Grandfather would have said, "You can't compare apples and oranges."

The question of whether government is getting too big for its britches does not confine itself merely to the extent of overment spending and the size of the debt, or even to how many of our citizens are on the federal payroll. Big government makes itself felt throughout our society in many ways other than the spending of billions of dollars. Our multiple tax laws, the myriad of regulatory agencies which exercise control over various segments of our business community, our welfare programs—all these manifestations of big government influence and affect our daily lives and our daily decisions. I do not say that the actions of big government in these many areas is of itself bad, but rather that they merit our constant vigilance. One might here recall the adage about "the cloud no bigger than a man's hand" or the unwisdom of locking the barn door after the horse has been stolen.

One field of government endeavor that is swamped in mythology is the federal budget, but I must hasten to point out that the President has taken the initiative and invited advice from the Chamber of Commerce of the United States on how the budget presentation may be improved.

The federal budget, as you know, is an annual ritual performed on the banks of the Potomac that invariably winds up leaving everyone perfectly miserable except the printers. I am told that

Washington news correspondents, reputed to be the best in the world, have given up trying to understand it and now merely report its weight.

The gist of the discontent with this form of federal account-ship is that the figures always show (a) a deficit, which causes some people to mutter darkly about inflation; (b) a surplus, which causes others to worry about deflation, or (c) a state of perfect balance, which causes everyone to suspect the auditors. The White House budgeteers whose fate it is to prepare this unwieldy and unwelcome document complain that this is a poor yardstick of our federal government's fiscal integrity. There are many in and out of government who agree wholeheartedly and who feel that any change would be for the better. It has been hinted that the Administration might be happier with two budgets, one dealing with current operating expenses of our government, the other with capital expenditures which could be regarded as investments holding the prospect of future benefits.

(Continued on Page 5)

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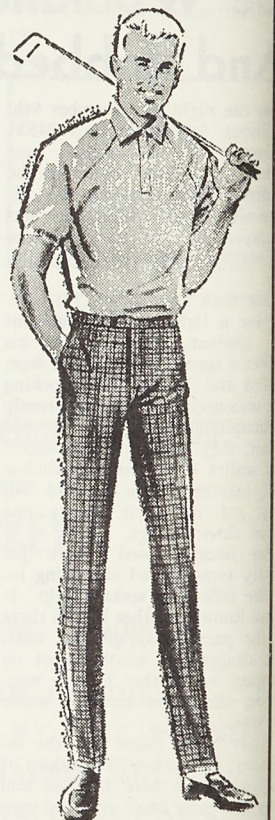


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FORD FELLOWSHIP

(Continued From Page 4)

School, Cornell University, Ithaca, New York, for application forms and full instructions as to what information the University requires concerning their qualifications.

6. The candidates for the first year's award will file their applications with the University prior to February 8, 1963. On or shortly after February 20, 1963, the recommendations of the Engineering Faculty will be sent to Ford Instrument Company with data concerning the men selected. Ford Instrument Company will make its suggestions and recommendations from this list to narrow the field to five candidates.

7. At the expense of the company, the five candidates will be brought to Ithaca, New York, the night of March 8th, to be interviewed by a board (selected by the University) on the 9th.

For information write: Public Relations Manager, Ford Instrument Company, 31-10 Thomson Avenue, Long Island City 1, New York.

PLUMLEY SPEECH

(Continued From Page 3)

An immediate benefit, it is hoped in some quarters, is that it might take the public eye off what's happening to our money. It could be called the public relations budget.

But, to quote Grandfather again, let's not leap before we look; we might find ourselves out of the frying pan into the fire. It is frequently argued that business employs the capital budget, as do a number of European countries and, if it works for them why not for our government? Unfortunately, all that glitters is not gold. Before we leap too swiftly to the arms of this new fiscal siren, we might note that the services of the United States government are not generally sold in the marketplace and there is no proven method of properly determining the capitalized or economic worth of Arlington Cemetery, Lincoln Memorial and other assets which would have to be recorded as investments. Unlike many European nations, our federal government is not in the business of running railroads and communications, or producing matches, coal and steel—although some of my business friends might challenge that statement. The capital budget may make sense for such European governments as operate on a quasi-commercial basis, but I fail to see how it will solve the difficult budgetary problems facing the President.

There are many myths surrounding our government's fiscal policies and not all of them are held by businessmen. One of them is that what we earn by our labors actually belongs to the federal government which benevolently lets us keep a portion of it for ourselves.

This myth turned up not long ago in, of all places, an article by the National Economics Editor of a celebrated New York newspaper not widely noted for its Socialistic leanings. This article said, and I quote, that "the Ad-

ministration gave business one and one half billion dollars last summer by liberalizing depreciation allowances." End of quote.

Grandfather might have concluded from that one that "When the chickens squawk, the fox is in the hen yard." I don't think I'd go that far, but there are grounds for concern that so fantastic a myth has gained acceptance not only by the general public but by one of our leading conservative economics editors.

It is entirely possible that the circulation of such myths, and others equally wild, have contributed to the lack of confidence among businessmen of which President Kennedy has complained. Business confidence does not rest on political assurances or promises of special treatment, but rather on continued belief in the inherent strength of our economy, in the stability of our institutions, and faith in our elected and appointed representatives.

I am confident that much of clouded air between business and government can and will be cleared away by the kind of frank discussion that is now under way around the country. We will not shrink from destroying the myths and exposing the cliches that emanate from the government side, and a few of our own will probably fall by the wayside in the process of democratic debate. If this dialogue upon which we are engaged succeeds in doing that, then perhaps we can say with Grandfather: "All's Well that Ends Well."

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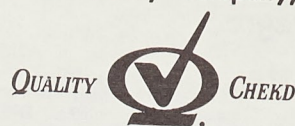
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On Campus with Max Shulman

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DECK THE HALLS

When you think of Christmas gifts you naturally think of Marlboro cigarettes, leading seller in flip-top box in all fifty states—and if we annex Wales, in all fifty-one—and if we annex Lapland—in all fifty-two. This talk about annexing Wales and Lapland is, incidentally, not just idle speculation. Great Britain wants to trade Wales to the United States for a desert. Great Britain needs a desert desperately on account of the tourist trade. Tourists are always coming up to the Prime Minister or the Lord Privy Seal or like that and saying, "I'm not knocking your country, mind you. It's very quaint and picturesque, etc. what with Buckingham Palace and Bovril and Scotland Yard, etc., but where's your desert?" (Before I forget, let me point out that Scotland Yard, Britain's plainclothes police branch, was named after Wally Scotland and Fred Yard who invented plain clothes. The American plainclothes force is called the FBI after Frank B. Incheliff, who invented fingerprints. Before Mr. Incheliff's invention, everybody's fingers were absolutely glassy smooth. This, as you may imagine, played hob with the identification of newborn babies in hospitals. From 1791 until 1904 no American parent



... Some of them well over eighty

ever brought home the right baby from the hospital. This later became known as the Black Tom Explosion.)

But I digress. England, I was saying, wants to trade Wales for a desert. Sweden wants to trade Lapland for Frank B. Incheliff. The reason is that Swedes to this day still don't have fingerprints. As a result, identification of babies in Swedish hospitals is so haphazard that Swedes flatly refuse to bring their babies home. There are, at present, nearly a half-billion unclaimed babies in Swedish hospitals—some of them well over eighty years old.

But I digress. We were speaking of Christmas gifts which naturally put us in mind of Marlboro cigarettes. What could be more welcome at Christmas time than Marlboro's flavor, Marlboro's soft pack, Marlboro's flip-top box? What indeed would be more welcome at any time of year—winter or summer, rain or shine, night or day? Any time, any season, when you light a Marlboro you can always be certain that you will get the same mild, flavorful, completely comfortable smoke.

There are, of course, other things you can give for Christmas besides Marlboro cigarettes. If, for example, you are looking for something to give a music lover, let me call to your attention a revolutionary new development in phonographs—the Low-fi phonograph. The Low-fi, product of years of patient research, has so little fidelity to the record you put on it that if, for instance, you put "Stardust" on the turntable, "Melancholy Baby" will come out. This is an especially welcome gift for people who have grown tired of "Stardust".

Merry Christmas to all and to all a good night.

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* * *

The makers of Marlboro cigarettes, who take pleasure in bringing you this column throughout the school year, wish to join old Max in extending greetings of the Season.



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DY'S
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Major Durham To Seek Degree Next Semester

Major William L. Durham, Associate Professor of Military Science, Missouri School of Mines and Metallurgy, will move to the Student Officer Detachment at MSM at the beginning of next semester. Colonel Glenn R. Taylor, Professor of Military Science, announced today.

Major Durham will be seeking a Master of Science Degree in Civil Engineering through the final semester educational program available to Army personnel who have the prerequisite and qualifications to complete the necessary graduate work for an advanced degree in one semester.

After graduating from The Citadel with a Bachelor of Science Degree in Civil Engineering in 1950, Major Durham chose the Army for a career and accepted a commission in the Regular Army. Since coming to MSM in the summer of 1960, he has continued his graduate study in addition to performing his normal duties in the Military Department.

SCIENCE ADVISORY COMMITTEE

(Continued From Page 1)

Robertson of Spencer Chemical Corporation; Mr. Erwin G. Somogyi of Monsanto Chemical Company; Dr. Rosmarie von Rumker of Chemagro Corporation; and Mr. J. Harold Yeager of the Mallinckrodt Chemical Works.

TAU BETA PI

(Continued From Page 1)

Pi Freshman Friends Fund provides one \$250 scholarship to an outstanding freshman ranking in the top ten. Additional awards are also given when the funds are available. This semester two \$100 awards were given.

Other activities at this school include campus directories and markers. Freshman Friends Merchants' Booklets, and bookmarks.

There is now only one "class" of members in Tau Beta Pi, the former classifications of Member of Distinction, Honorary Member, and Associate Member having been discontinued. Election to membership in the association is accomplished only by vote of an active chapter.

Candidates eligible for election to membership fall into four categories: undergraduate students meeting the scholastic requirements, alumni who met the scholastic requirements as undergraduates of the college whose chapter may consider them and of a college other than the one whose chapter may consider them, and engineers of high attainment in the profession regardless of scholastic record or educational background.

Undergraduate students to be eligible for consideration must stand in the top 12½ per cent of their class in their junior year or the top 20 per cent of their class in their senior year.

Elections and initiations by the undergraduate chapters are normally held twice a year, in the fall and spring terms. This semester's initiation was held December 9.

Membership in Tau Beta Pi is limited to men, although women are eligible under the same rules for award of the Women's Badge.

NATIONAL IFC

(Continued From Page 1)

taking place in the colleges of today.

In addition to the many discussions in which the students participated, special meetings were held involving the deans of all colleges. Dean McKay and Dean Cannole of Washington University reported that the primary concerns were: (1) the fraternities' obligation in scholarship — how to insure a program which will insure each man will achieve his academic potential; (2) the need to define the role of fraternities in relation to the changing universities and their student bodies; and (3) the need to reaffirm the principles upon which each fraternity is forwarded.

In a speech to the convention, Dr. Elvis J. Stahr, president of Indiana University, affirmed that "fraternities that adhere to the ideals of brotherhood and learning can become central forces on

today's campuses." An earlier speaker, Dr. Perry E. Gresham, president of Bethany University, reported that fraternities are "growing up" and that "in the era of rapid change, campus chapters are setting the pace."

If one has been here for a few years and has lived in a fraternity, he has probably noticed the drastic changes that have taken place in our fraternity system at Missouri School of Mines. He should also realize that this is to our advantage, because we are just keeping the pace which is being set by all fraternities systems combined.

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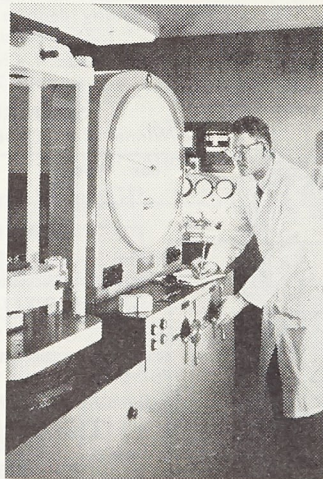
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caused by slurry weight variations; fewer squeeze jobs needed to repair these bad spots.

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Student Council Plans Many Campus Activities

To many students the Who's Who in American Colleges is merely a list of names. To others the pep rally before the Washington University game was nothing but a spontaneous gathering of Miner rooters.

But despite the seeming little consequences, there were scores of man hours, work and worry that were involved in these and all Student Council activities.

The Student Council has as its sole purpose service to the school and student body. And like most "service organizations" there exist vital committees and student groups who do nothing but aid the functioning of the organization, Constitution, Budget, Publicity, or Who's Who Committee.

Other committees that affect the students more directly are Pep Rally, General Lectures, and the Council's representatives to the St. Pat's, Miner, Rollamo, and Student Union Boards.

Under Clint "Beau" Clark, President of the Council, and the committee heads, this year's Council has provided the School of Mines with some interesting and productive projects.

Through the Council several thousand dollars worth of trees will soon grace the MSM campus; a sign advertising the school will be placed on U.S. 66; a crib scene is erected every year at Christmas; the possibility of an FM radio station has been looked into; and a special committee under Jerry Kettler is working to bring funds from the state legislature for a new school library.

Each successive year since its founding the Student Council has grown in power and prestige. Each year it undertakes more responsibility — all of this due to the increased interest of the organizations who choose their representatives and the attitude of the officers chosen by these representatives.



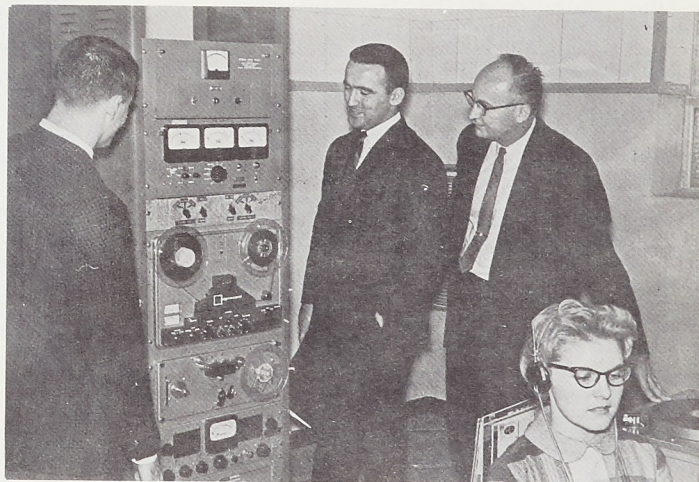
Christmas scene constructed by the Student Council.

The officers of the Student Council are, from left to right, Dennis Reeder, secretary; Dale Marshall, vice-president; Mike O'Brien, treasurer; and Clint Clark, president.

Beau Jung, Dale Marshall, and Prof. Skitek tour FM station at School of the Ozarks.



Part of the General Lecture Work — The Four Lads.



Pep Rally before Washington U. Game.

The Student Council Is Your Organization -- Support It!

IFC Officers' Mixer Gives Promise of Progress

This fall, the Inter-fraternity Council of Missouri School of Mines has taken a new step, and possibly a very rewarding step, in the right direction. A few weeks ago, a mixer was held in the Student Union, a common occurrence in itself, but then again not so common. This particular mixer was held for the presidents and vice-presidents of the fraternities represented here on campus. This was something new, and the I.F.C. was pleased to discover that from this very successful get-together, stems the opportunity for even better inter-fraternity relationships.

What was the reason for this mixer? The I.F.C. felt that if the officers of the various houses had a chance to get together in an informal situation and talk about their respective problems, ideas, and methods of administration, a tremendous start could be made in the process of the betterment of each fraternity as well as the overall system.

Stemming from this mixer, comes the organization of several

new committees in the I.F.C. Scholarship, Pledge Trainer, Social, and Treasurer committees have been set up, and these committees have started and will continue to organize meetings of the chairmen of committees similar to those mentioned above, which now exist within the various fraternities on campus. Already, meetings have been held between pledge trainers, scholarship chairmen, and social chairmen, and many more meetings are following soon. Another president's mixer is scheduled before the holidays, to discuss what progress has been made, and to make plans for the future.

The outcome of all this new activity won't be evident for awhile, but considering the progress that has been made in the short time that has passed, nothing but positive and worthy results can be conceived.

Greek News

KAPPA ALPHA

For the past two months Kappa Alpha Order has been very busy with many activities, parties, and sports.

On October 14th and 21st the first and second degrees of Kappa Alpha's initiation were held. Initiated at that time were James Newcombe, Porter Taylor, Douglas Fitts, Thomas Mack, and Larry Faust.

Following initiation, a week later, KA's celebrated Homecoming with their annual alumni meeting. This meeting was unusually bright due to the fact that Kappa Alpha's candidate, Miss Gail Loughbridge, was crowned Homecoming Queen.

On November 30, in the IFC Sing, the K. A. chorus and quartet won first place in both categories. Needless to say the whole chapter was elated. A further honor was bestowed on the quartet by being invited to go on tour with the MSM Dance Band. A proper

celebration was provided the next night with the Military Ball and the following K. A. party which was entertained by the "Rejects," a fine band from St. Louis.

At present the finishing decorations for Christmas are being put up, and a Christmas party for underprivileged children is being planned for December 12. Each member donated money with which gifts were purchased for the children. In addition to these gifts Santa Claus will be present to make it even more enjoyable. Needless to say, one of the brothers has more talent than just being an engineer. On the following night, Thursday, gifts will be exchanged among the members.

From K. A., best wishes for a Merry Christmas and a prosperous New Year.

SIGMA PI

The past Tuesday afternoon thirty-six of the underprivileged children of Rolla were the guests of Sigma Pi and Sigma Tau Gam-

ma fraternities, at their annual Bi-Sig Christmas Party, held at the First Baptist Church of Rolla. Bill Loth of Sigma Pi made a most authentic looking Santa Claus, which wasn't due to his snowy white beard.

PHI ALPHA

Saturday, Dec. 8, Phi Alpha sponsored a Christmas Party for a group of underprivileged children of Rolla. The children were treated by entertaining games, and later by cake and ice cream. Climaxing the party was the appearance of Santa Claus who distributed Christmas gifts which surrounded the Christmas tree.

Phi Alpha wishes all a Merry Christmas and a Happy New Year.

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ADUSEI-POKU

(Continued From Page 1)

ed language difference. In Ghana, for example, a country the size of Oregon, with 7 million inhabitants there are five major languages and fifteen different dialects. He ended his talk saying that time is the critical factor in Africa's development. They must go ahead quickly or they will be lost in this ever advancing world.

After the lecture, questions were asked by the audience. This proved to be one of the best parts of the program as Mr. Adusei-Poku answered them in a way that showed interest and enthusiasm.

When asked about Senator Ellender's statement that no African country could rule itself without the help of the white population,

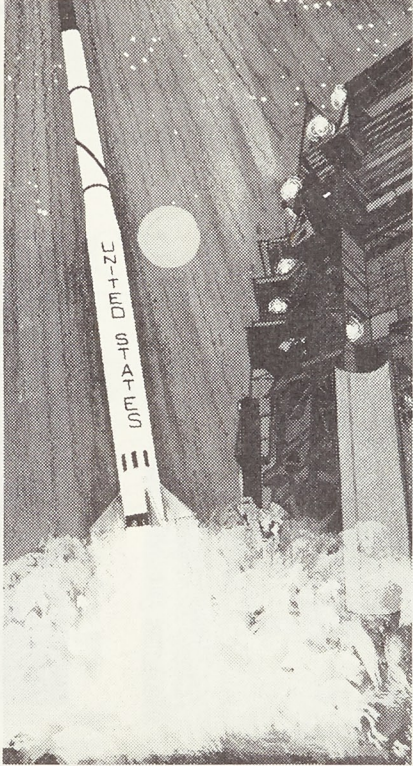


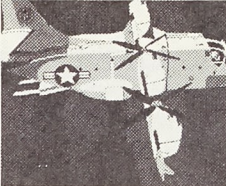
MR. KWAME ADUSEI-POKU

he said this was a complete fallacy. The colonial powers are not the ones who should decide when it is time for a nation to be granted independence; the people themselves should decide.

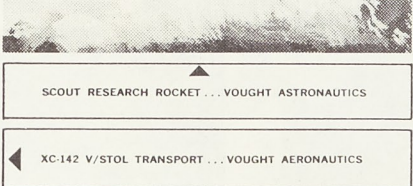
On the question of the Cuban Crisis, he said that it once again showed how the smaller nations have come to distrust the larger powers. The way Russia left Castro in the lurch was one example. The fact that Stevenson said that there would be no invasion of Cuba two weeks before the ill-fated invasion was another.

All in all the lecture was a very enlightening experience, and the Student Union Board should be commended for sponsoring such an excellent program.

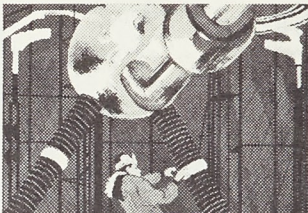




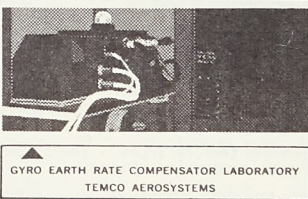
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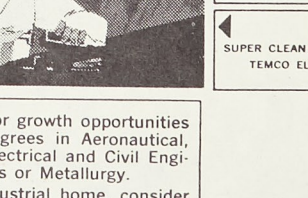
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FINAL EXAMINATION SCHEDULE

January 14, 1963, 8:00 a. m. through January 19, 1963, 5:00 p. m.
Final Exam Period
All Grades due 8:00 a. m. Monday, January 21, 1963

CERAMICS

Course No.	Time of Examination	Room
101	Monday, Jan. 14, 1:00 p. m.	211 Ful.
203	Tuesday, Jan. 15, 1:00 p. m.	103 Ful.
252	Wednesday, Jan. 16, 8:00 a. m.	103 Ful.
254	Friday, Jan. 18, 3:10 p. m.	103 Ful.
260	Wednesday, Jan. 16, 1:00 p. m.	103 Ful.
286	Thursday, Jan. 17, 1:00 p. m.	211 Ful.
401	Wednesday, Jan. 16, 8:00 a. m.	212 Ful.
403	Thursday, Jan. 17, 1:00 p. m.	103 Ful.
405	Monday, Jan. 14, 1:00 p. m.	103 Ful.

CHEMISTRY

1A&B	Monday, Jan. 14, 1:00 p. m.	G6, 207, 209, Ch. E.
1C&D	Wednesday, Jan. 16, 8:00 a. m.	G3, G6, 210 Ch. E.
1E&F	Friday, Jan. 18, 10:10 a. m.	G3, G6, 110, Ch. E.
1G&H	Monday, Jan. 14, 3:10 p. m.	G6 Ch. E.
3A	Friday, Jan. 18, 8:00 a. m.	G3, G6, Ch. E.
3B	Friday, Jan. 18, 1:00 p. m.	G6 Ch. E.
7A	Thursday, Jan. 17, 8:00 a. m.	G3 Ch. E.
7B	Thursday, Jan. 17, 3:10 p. m.	G3 Ch. E.
211	Friday, Jan. 18, 8:00 a. m.	211 Ch. E.
221	Wednesday, Jan. 16, 8:00 a. m.	204 Ch. E.
223	Thursday, Jan. 17, 1:00 p. m.	110 Ch. E.
241	Wednesday, Jan. 16, 10:10 a. m.	G6 Ch. E.
243	Monday, Jan. 14, 1:00 p. m.	204 Ch. E.
301	Monday, Jan. 14, 1:00 p. m.	G3 Ch. E.
321	Thursday, Jan. 17, 3:10 p. m.	204 Ch. E.
343	Wednesday, Jan. 16, 8:00 a. m.	310 Ch. E.
349	Tuesday, Jan. 15, 1:00 p. m.	204 Ch. E.
361	Friday, Jan. 18, 8:00 a. m.	202 Ch. E.
385	Wednesday, Jan. 16, 8:00 a. m.	110 Ch. E.
387	Tuesday, Jan. 15, 1:00 p. m.	202 Ch. E.
421	Thursday, Jan. 17, 8:00 a. m.	202 Ch. E.
483	Monday, Jan. 14, 1:00 p. m.	202 Ch. E.

CHEMICAL ENGINEERING

55A&B	Tuesday, Jan. 15, 1:00 p. m.	G3 Ch. E.
55C&D	Thursday, Jan. 17, 3:10 p. m.	G6 Ch. E.
169	Thursday, Jan. 17, 1:00 p. m.	G6 Ch. E.
195	Thursday, Jan. 17, 10:10 a. m.	G6 Ch. E.
258	Wednesday, Jan. 16, 1:00 p. m.	G6 Ch. E.
261	Monday, Jan. 14, 1:00 p. m.	104 Old Chem.
263A	Thursday, Jan. 17, 1:00 p. m.	202 Ch. E.
263B	Wednesday, Jan. 16, 1:00 p. m.	110 Ch. E.
265	Thursday, Jan. 17, 8:00 a. m.	204 Ch. E.
267	Wednesday, Jan. 16, 8:00 a. m.	211 Ch. E.
268	Wednesday, Jan. 16, 1:00 p. m.	G6 Ch. E.
271	Thursday, Jan. 17, 1:00 p. m.	204 Ch. E.
325	Monday, Jan. 14, 1:00 p. m.	211 Ch. E.
355	Friday, Jan. 18, 8:00 a. m.	310 Ch. E.
363	Friday, Jan. 18, 1:00 p. m.	110 Ch. E.
379	Thursday, Jan. 17, 8:00 a. m.	110 Ch. E.
383	Tuesday, Jan. 15, 1:00 p. m.	211 Ch. E.
453	Thursday, Jan. 17, 1:00 p. m.	211 Ch. E.

CIVIL ENGINEERING

1A	Saturday, Jan. 19, 8:00 a. m.	117 CE
1B	Wednesday, Jan. 16, 1:00 p. m.	117 CE
1C	Wednesday, Jan. 16, 3:10 p. m.	218 CE
1D	Thursday, Jan. 17, 3:10 p. m.	119 CE
8A	Monday, Jan. 14, 1:00 p. m.	117 CE
8B	Thursday, Jan. 17, 1:00 p. m.	117 CE
8C	Thursday, Jan. 17, 8:00 a. m.	119 CE
49A	Tuesday, Jan. 15, 1:00 p. m.	114 CE
49B	Wednesday, Jan. 16, 1:00 p. m.	114 CE
49C	Thursday, Jan. 17, 3:10 p. m.	114 CE
49D	Wednesday, Jan. 16, 10:10 a. m.	114 CE
61A	Tuesday, Jan. 15, 1:00 p. m.	117 CE
61B	Tuesday, Jan. 15, 10:10 a. m.	117 CE
61C	Tuesday, Jan. 15, 10:10 a. m.	117 CE
102A	Monday, Jan. 14, 1:00 p. m.	302 CE
102B	Wednesday, Jan. 16, 1:00 p. m.	302 CE
102C	Thursday, Jan. 17, 1:00 p. m.	218 CE
111A	Wednesday, Jan. 16, 8:00 a. m.	117 CE
111B	Wednesday, Jan. 16, 1:00 p. m.	217-218 CE
111C	Thursday, Jan. 17, 3:10 p. m.	117 CE
116A	Thursday, Jan. 17, 1:00 p. m.	301 CE
116B	Friday, Jan. 18, 8:00 a. m.	114 CE
116C	Thursday, Jan. 17, 8:00 a. m.	218 CE
121A	Wednesday, Jan. 16, 8:00 a. m.	218 CE
211B&C	Friday, Jan. 18, 3:10 p. m.	117 CE
125A	Tuesday, Jan. 15, 1:00 p. m.	313 CE
125B&C	Friday, Jan. 18, 8:00 a. m.	117 CE
131A	Monday, Jan. 14, 1:00 p. m.	114 CE
131B	Thursday, Jan. 17, 8:00 a. m.	117 CE
131C	Thursday, Jan. 17, 1:00 p. m.	114 CE
131D	Friday, Jan. 18, 8:00 a. m.	217-218 CE
215A	Monday, Jan. 14, 1:00 p. m.	218 CE
215B	Tuesday, Jan. 15, 1:00 p. m.	218 CE
221A	Thursday, Jan. 17, 8:00 a. m.	314 CE
221B	Friday, Jan. 18, 10:10 a. m.	218 CE
223A	Monday, Jan. 14, 1:00 p. m.	315 CE
223B	Thursday, Jan. 17, 8:00 a. m.	120 CE
229A	Thursday, Jan. 17, 1:00 p. m.	120 CE
229B	Tuesday, Jan. 15, 1:00 p. m.	302 CE
231A	Tuesday, Jan. 15, 1:00 p. m.	119 CE
231B	Monday, Jan. 14, 3:10 p. m.	217-218 CE
235A	Thursday, Jan. 17, 1:00 p. m.	118 CE
235B	Thursday, Jan. 17, 1:00 p. m.	302 CE
243	Thursday, Jan. 17, 10:10 a. m.	114 CE
325	Monday, Jan. 14, 1:00 p. m.	119 CE
362	Wednesday, Jan. 16, 8:00 a. m.	120 CE

MILITARY

10	Tuesday, Jan. 15, 3:10 p. m.	See Instructor
30	Tuesday, Jan. 15, 3:10 p. m.	See Instructor
105	Tuesday, Jan. 15, 3:10 p. m.	See Instructor
107	Tuesday, Jan. 15, 3:10 p. m.	See Instructor

MINING

100	Thursday, Jan. 17, 1:00 p. m.	111 Min.
102	Thursday, Jan. 17, 3:10 p. m.	111 Min.
131	Wednesday, Jan. 16, 8:00 a. m.	122 Min.
216	Thursday, Jan. 17, 3:10 p. m.	122 Min.
219	Tuesday, Jan. 15, 1:00 p. m.	111 Min.
225	Monday, Jan. 14, 1:00 p. m.	120 Min.
231	Thursday, Jan. 17, 8:00 a. m.	117 Min.
241	Thursday, Jan. 17, 1:00 p. m.	117 Min.
251	See Instructor	
261	Wednesday, Jan. 16, 8:00 a. m.	111 Min.

Course No. Time of Examination

270	Friday, Jan. 18, 8:00 a. m.	117 Min.
285	Thursday, Jan. 17, 8:00 a. m.	111 Min.
307	Thursday, Jan. 17, 8:00 a. m.	107 Min.
323	Saturday, Jan. 19, 8:00 a. m.	117 Min.
329	Monday, Jan. 14, 1:00 p. m.	111 Min.
335	Thursday, Jan. 17, 1:00 p. m.	122 Min.
340	Tuesday, Jan. 15, 1:00 p. m.	106 Min.
370	Friday, Jan. 18, 8:00 a. m.	122 Min.
385	Friday, Jan. 18, 8:00 a. m.	111 Min.

PHYSICS

21	Tuesday, Jan. 15, 8:00 a. m.	See Instructor
25	Tuesday, Jan. 15, 8:00 a. m.	See Instructor
251	Tuesday, Jan. 15, 8:00 a. m.	See Instructor
301	Wednesday, Jan. 16, 1:00 p. m.	102 Nor.
311	Thursday, Jan. 17, 8:00 a. m.	305 Nor.
331	Monday, Jan. 14, 1:00 p. m.	305 Nor.
345	Friday, Jan. 18, 8:00 a. m.	107 Nor.
351	Wednesday, Jan. 16, 8:00 a. m.	102 Nor.
361	Wednesday, Jan. 16, 8:00 a. m.	305 Nor.
400	See Instructor	
401	Thursday, Jan. 17, 1:00 p. m.	102 Nor.
423	Thursday, Jan. 17, 1:00 p. m.	212 Ful.
453	Thursday, Jan. 17, 8:00 a. m.	122 Min.
461	Wednesday, Jan. 16, 1:00 p. m.	103 Nor.
481	Tuesday, Jan. 15, 1:00 p. m.	212 Ful.

ELECTRICAL ENGINEERING

31	Thursday, Jan. 17, 10:10 a. m.	105 EE
41A	Monday, Jan. 14, 1:00 p. m.	G10, G11 EE
41B	Thursday, Jan. 17, 10:10 a. m.	G10 EE
41C	Wednesday, Jan. 16, 3:10 p. m.	G10 EE
41D	Thursday, Jan. 17, 10:10 a. m.	G10 EE
55	Wednesday, Jan. 16, 1:00 p. m.	105 EE
133A	Thursday, Jan. 17, 8:00 a. m.	G10 EE
133B	Tuesday, Jan. 15, 1:00 p. m.	G10 EE
133C	Friday, Jan. 18, 10:10 a. m.	G10 EE
135A	Monday, Jan. 14, 1:00 p. m.	220 EE
135B	Thursday, Jan. 17, 8:00 a. m.	101 EE
135C	Thursday, Jan. 17, 1:00 p. m.	101 EE
141A	Monday, Jan. 14, 1:00 p. m.	105 EE
141B	Thursday, Jan. 17, 1:00 p. m.	105 EE
141C	Wednesday, Jan. 16, 1:00 p. m.	102 EE
171	Tuesday, Jan. 15, 10:10 a. m.	G10, G11, 105, 220 EE
173A	Monday, Jan. 14, 1:00 p. m.	101, 102 EE
173B	Friday, Jan. 18, 8:00 a. m.	G10, G11 EE
173C	Friday, Jan. 18, 10:10 a. m.	102 EE
175A	Wednesday, Jan. 16, 8:00 a. m.	102 EE
175B	Tuesday, Jan. 15, 1:00 p. m.	102 EE
175C	Thursday, Jan. 17, 1:00 p. m.	102 EE
177A	Friday, Jan. 18, 10:10 a. m.	G11, 220 EE
177B	Thursday, Jan. 17, 1:00 p. m.	G10 EE
241A	Thursday, Jan. 17, 1:00 p. m.	G11 EE
241B	Wednesday, Jan. 16, 1:00 p. m.	G10 EE
241C	Friday, Jan. 18, 8:00 a. m.	220 EE
251A	Thursday, Jan. 17, 8:00 a. m.	G11 EE
251B	Tuesday, Jan. 15, 1:00 p. m.	G11 EE
251C	Friday, Jan. 18, 8:00 a. m.	105 EE
259A	Wednesday, Jan. 16, 8:00 a. m.	103 EE
259B	Tuesday, Jan. 15, 1:00 p. m.	104 EE
261	Thursday, Jan. 17, 10:10 a. m.	102 Old Cafe
263A	Thursday, Jan. 17, 8:00 a. m.	103 EE
263B	Thursday, Jan. 17, 1:00 p. m.	104 EE
275A	Monday, Jan. 14, 1:00 p. m.	103, 104 EE
275B	Wednesday, Jan. 16, 8:00 a. m.	G10, G11 EE
275C	Friday, Jan. 18, 8:00 a. m.	102 EE
277A	Monday, Jan. 14, 1:00 p. m.	106, 213 EE
277B	Thursday, Jan. 17, 1:00 p. m.	220 EE
317	Saturday, Jan. 19, 8:00 a. m.	G10, G11, EE
365	Thursday, Jan. 17, 10:10 a. m.	101, 220 EE
375	Thursday, Jan. 17, 1:00 p. m.	106 EE
377A	Wednesday, Jan. 16, 1:00 p. m.	G11 EE
377B	Friday, Jan. 18, 8:00 a. m.	101 EE

GEOLOGY

50	Saturday, Jan. 19, 1:00 p. m.	206, 305 Nor
51	Monday, Jan. 14, 1:00 p. m.	206 Nor.
113	Tuesday, Jan. 15, 1:00 p. m.	209 Nor.
130	Friday, Jan. 18, 3:10 p. m.	103 Nor.
223	Wednesday, Jan. 16, 8:00 a. m.	103 Nor.
227	Thursday, Jan. 17, 1:00 p. m.	103 Nor.
241	Thursday, Jan. 17, 8:00 a. m.	103 Nor.
254	Thursday, Jan. 17, 8:00 a. m.	209 Nor.
292	Thursday, Jan. 17, 1:00 p. m.	107 Nor.
370	Monday, Jan. 14, 1:00 p. m.	311 Nor.
381	Wednesday, Jan. 16, 8:00 a. m.	211 Nor.
384	Wednesday, Jan. 16, 8:00 a. m.	207 Nor.
423	Friday, Jan. 18, 8:00 a. m.	103 Nor.
432	Monday, Jan. 14, 1:00 p. m.	211 Nor.
433	See Instructor	
440	See Instructor	
443	See Instructor	
475	Thursday, Jan. 17, 1:00 p. m.	209 Nor.

ENGLISH

1	Tuesday, Jan. 15, 10:10 a. m.	See Instructor
2A	Thursday, Jan. 17, 1:00 p. m.	Rolla Building
2B	Friday, Jan. 18, 8:00 a. m.	Rolla Building
51A	Thursday, Jan. 17, 8:00 a. m.	Rolla Building
75A	Thursday, Jan. 17, 8:00 a. m.	Rolla Building
75B	Friday, Jan. 18, 10:10 a. m.	Rolla Building
105A	Monday, Jan. 14, 1:00 p. m.	Rolla Building
105B	Tuesday, Jan. 15, 1:00 p. m.	Rolla Building
105C	Wednesday, Jan. 16, 1:00 p. m.	Rolla Building
105D	Friday, Jan. 18, 10:10 a. m.	Rolla Building
105E	Wednesday, Jan. 16, 3:10 p. m.	Rolla Building
110A	Friday, Jan. 18, 8:00 a. m.	Rolla Building
110B	Wednesday, Jan. 16, 3:10 p. m.	Rolla Building
125	Wednesday, Jan. 16, 8:00 a. m.	Rolla Building
150	Tuesday, Jan. 15, 1:00 p. m.	Rolla Building
170A	Tuesday, Jan. 15, 1:00 p. m.	Rolla Building
170B	Friday, Jan. 18, 10:10 a. m.	Rolla Building
170C	Friday, Jan. 18, 3:10 p. m.	Rolla Building

GERMAN

1A	Thursday, Jan. 17, 1:00 p. m.	Rolla Building
1B	Friday, Jan. 18, 10:10 a. m.	Rolla Building
2	Tuesday, Jan. 15, 1:00 p. m.	Rolla Building
3	Friday, Jan. 18, 8:00 a. m.	Rolla Building
4	Monday, Jan. 14, 1:00 p. m.	Rolla Building

SPANISH

1	Friday, Jan. 18, 8:00 a. m.	Rolla Building
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Course No. Time of Examination

2	Tuesday, Jan. 15, 1:00 p. m.	Rolla Building
3	Wednesday, Jan. 16, 8:00 a. m.	Rolla Building
4	Wednesday, Jan. 16, 1:00 p. m.	Rolla Building

ECONOMICS

100A	Monday, Jan. 14, 1:00 p. m.	Rolla Building
100B	Thursday, Jan. 17, 8:00 a. m.	Rolla Building
100C	Wednesday, Jan. 16, 8:00 a. m.	Rolla Building
100D	Tuesday, Jan. 15, 1:00 p. m.	Rolla Building
100E	Thursday, Jan. 17, 1:00 p. m.	Rolla Building
100F	Friday, Jan. 18, 3:10 p. m.	Rolla Building
100G	Wednesday, Jan. 16, 3:10 p. m.	Rolla Building
130	Wednesday, Jan. 16, 8:00 a. m.	Rolla Building
201A	Thursday, Jan. 17, 8:00 a. m.	Rolla Building
201B	Wednesday, Jan. 16, 8:00 a. m.	Rolla Building
201C	Friday, Jan. 18, 8:00 a. m.	Rolla Building
201D	Wednesday, Jan. 16, 3:10 p. m.	Rolla Building
314	Monday, Jan. 14, 1:00 p. m.	Rolla Building
315	Thursday, Jan. 17, 1:00 p. m.	Rolla Building
356	Wednesday, Jan. 16, 1:00 p. m.	Rolla Building

HISTORY

160A	Monday, Jan. 14, 1:00 p. m.	Rolla Building
160B	Thursday, Jan. 17, 8:00 a. m.	Rolla Building
160C	Wednesday, Jan. 16, 8:00 a. m.	Rolla Building
160D	Thursday, Jan. 17, 1:00 p. m.	Rolla Building
160E	Friday, Jan. 18, 10:10 a. m.	Rolla Building
160F	Friday, Jan. 18, 3:10 p. m.	Rolla Building

PSYCHOLOGY

151	Friday, Jan. 18, 10:10 a. m.	Rolla Building
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RELIGION

103	Friday, Jan. 18, 8:00 a. m.	Baptist Center
105	Friday, Jan. 18, 10:10 a. m.	Baptist Center
107	Saturday, Jan. 19, 8:00 a. m.	St. Patrick's School
108	Saturday, Jan. 19, 8:00 a. m.	St. Patrick's School
109	Friday, Jan. 18, 1:00 p. m.	St. Patrick's School
113	Thursday, Jan. 17, 3:10 p. m.	Methodist Church

SOCIOLOGY

181	Tuesday, Jan. 15, 1:00 p. m.	Rolla Building
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MATHEMATICS

3	Monday, Jan. 14, 8:00 a. m.	Harris Hall
5	Monday, Jan. 14, 8:00 a. m.	See Instructor
8	Monday, Jan. 14, 8:00 a. m.	See Instructor
21	Monday, Jan. 14, 10:10 a. m.	See Instructor
22	Monday, Jan. 14, 10:10 a. m.	See Instructor
73	Wednesday, Jan. 16, 10:10 a. m.	Harris Hall
110	Wednesday, Jan. 16, 8:00 a. m.	Harris Hall
201	Monday, Jan. 14, 3:10 p. m.	See Instructor
210	Wednesday, Jan. 16, 3:10 p. m.	Harris Hall
302	Friday, Jan. 18, 1:00 p. m.	Harris Hall
310	Wednesday, Jan. 16, 8:00 a. m.	Harris Hall
318	Monday, Jan. 14, 310 p. m.	See Instructor
322	Tuesday, Jan. 15, 1:00 p. m.	Harris Hall
325A	Wednesday, Jan. 16, 8:00 a. m.	Harris Hall
325B	Friday, Jan. 18, 10:10 a. m.	Harris Hall
331	Friday, Jan. 18, 3:10 p. m.	Harris Hall
336	Thursday, Jan. 17, 1:00 p. m.	Harris Hall
343	Friday, Jan. 18, 8:00 a. m.	Harris Hall
346	Monday, Jan. 14, 1:00 p. m.	Harris Hall
350	See Instructor	See Instructor
351	Friday, Jan. 18, 10:10 a. m.	Harris Hall
357	Thursday, Jan. 17, 1:00 p. m.	Harris Hall
400	See Instructor	See Instructor
401	See Instructor	See Instructor
405	Tuesday, Jan. 15, 1:00 p. m.	Harris Hall
408	Saturday, Jan. 19, 8:00 a. m.	Harris Hall

MEN OF SCIENCE

Nicolas Copernicus: a Scientist Extraordinary

Nicolas Copernicus was born on February 14, 1473, in the town of Thorn in Poland. His father, a merchant in the town died when the boy was only ten years old. An uncle took over the care of him and in 1491 sent him to the University of Cracow. At the university Copernicus spent some time studying under the astronomer Wojciech Brotzewski.

Copernicus's maternal uncle, Lucas Waczenrode, bishop of Enderland, had a canonry of Frauenburg reserved for Copernicus and in 1497 he sent him to Natio Germinorum at Bologna to complete his education. During his three and one half year stay at Bologna, Copernicus studied among other things, Greek, the writings of Plato, and astronomy under Domenico Novarra of Ferrara.

During his stay at Bologna, on March 9, 1497, Copernicus made his first astronomical observation, the occultation of the star Aldebaran. He went to Rome during the great Jubilee of 1500 to lecture publicly on mathematics. And in the following year he went to the University of Padua in Italy to study law and medicine.

On May 31, 1503 Copernicus was made Doctor of Canon Law at Ferrara and in that year he returned to Poland as an expert on mathematics, astronomy, medicine and theology. During the following years, he was an advisor to his uncle, the Bishop of Ermeland. During this time he remained at Frauenburg where he used his medical skill to ease the suffering of the poor.

Copernicus soon became famous for his knowledge of astronomy and in 1514 he was invited to give his opinions on the reformation of the calendar which was at that time being preformed by the Lateran Council. He refused however saying the movements of the heavenly bodies were not clearly enough understood at the present time.

During the period of 1497 to 1529 Copernicus made and published the data of 27 astronomical observations. All during this period he worked on his greatest writings *De Revolutionibus Orbium Coelestium*, in which he concludes that the earth revolves about the sun rather than vice versa.

In 1530 he published *Commentariolus* which contained essentially the same statements as *De Revolutionibus Orbium Coelestium* but omitted all diagrams and calculations. After becoming fam-

iliar with *Commentariolus*, Pope Clement VII made a formal demand for its publication and the publication of Copernicus's other works.

In 1541 Rhatirus, a student of Copernicus, took over the assembly and publication of Copernicus's thesis. He met with a good deal of opposition from Copernicus's enemies led by Martin Luther in

Nurmberg so he took the manuscripts to Leipzig to be published.

De Revolutionibus Orbium Coelestium is composed of six sections or books. The first proved that the earth is spherical and moving about the sun. This book also contained a catalog of stars. The second book discussed the ecliptic. The third book discussed precession and apparent motion of the sun. The fourth book discussed the moon and the fifth and sixth books, the planets.

Copernicus placed the planet Mercury closest to the sun, then Venus, Earth, Mars, Jupiter, and Saturn. Outside all of them he

placed the sphere of stars.

The first printed copy of his completed thesis was brought to him while he was on his deathbed in 1543. He died on May 24, 1543.

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to
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ASCE to Elect Officers Jan. 2

The American Society of Civil Engineers will elect its officers for the spring semester of 1963 on Jan. 2, 1963. As of the present the nominees are:

President, Bob Markland; Vice President, Everett Adams; Treasurer, Mike Hardy; Recording Secretary, Charles Riney; Corresponding Secretary, Wayne Huckabee and Stuart Ferrell.

All members are asked to be present for the election. A film, *The Diary of the Mechanical Straits*, will be shown and refreshments will be served.

FACULTY FEATURE

MSM Alumnus, Professional Engineer, Popular Prof -- Charles R. Remington

Professor Charles R. Remington is one of the few professors on campus who spent his student days at MSM. Professor Remington received his B.S. in 1949 and his M.S. in 1950, both from MSM. Immediately after acquiring his B.S., he accepted a teaching position in the Mechanical Engineering Department and has remained here ever since.



PROF. CHARLES R. REMINGTON

Professor Remington teaches courses in Thermodynamics, Applied Thermodynamics, Heat Transfer, Power Plant, Internal Combustion, Engineering Analysis and Synthesis and the lab associated with this course, and Interpretation of Data.

Confident in MSM Students

Professor Remington loves to teach and to be in the midst of young men who know where they are going and what they want out of life. He feels that MSM has just such young men. He does not say that MSM is the best school in the United States but he does contend that he doesn't know of any better. The demand for the graduates of a school is his yardstick for the ranking of schools and he feels that the demand for MSM graduates is tremendous as witnessed by the number of companies which come each year to interview seniors.

Director of NSF

Along with being a member of two of the most active committees on campus, the Scholarship and Conduct Committee and the Loan Fund Committee, Professor Remington is one of the professors who visits high schools trying to encourage high school seniors to attend MSM. He has visited high schools in the Kansas City area, Southwestern Missouri, and more recently, the St. Louis area. He is also the Director of the National Science Foundation Program for High Ability High School Juniors

which is held on the campus every summer for a period of seven weeks. Professor Remington has held this position for the last four summers and enjoys the job very much.

Organization Man

A strong believer in student participation in professional organizations, Professor Remington belongs to the American Society of Mechanical Engineers, the Society of Automotive Engineers of which he is membership Chairman of the St. Louis section, and the American Society of Engineering Educators. He is a registered professional engineer in the State of Missouri and a member of the Mechanical Engineering honor fraternity, Pi Tau Sigma. While a student here, he was a member of Lambda Chi Alpha social fraternity and upon first teaching at

MSM, served as faculty advisor to Lambda Chi.

Business and Military Experience

Professor Remington's industrial experience includes two summers with the United States Geological Survey in Rolla and one summer as a Consultant at McDonnell Aircraft Corp.

After first coming to MSM in the fall of 1942, Professor Remington was drafted by the Army. He served two years as a personnel records and payroll clerk in the battalion headquarters in Hawaii.

While stationed in Hawaii, he met his wife with whom he now lives at 649 Salem Avenue in Rolla. He has two sons, one of which is now in the Army and the other of which is attending Southwestern Missouri State in Springfield. Professor Remington's

main interest in the field of Mechanical Engineering lies in the broad area of energy conversion heat and power. He is also interested in the lasting qualities

and good performance of automobiles. Rather than trying to see how fast he can make a car go, he tries to see how long he can make it run.

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Miner Cagers Upset Harris; Schuchman Leads Conference

A jam packed Jackling gym last Friday night saw our Missouri Miners battle to a hard fought victory over Harris Teachers College of St. Louis.

On the opening tip, off the Miners got control of the ball and jumped away to a 10-1 lead, against the springy Harris five. The rough and tumble play made for most of the fouls called. Several were called on the tall teachers for goal tending. Consequently, the succeeding fouling got to be pretty rough on both sides. With the first half drawing to a close, the MSM boys held a slim 6 point lead, 46-40.

The second half started and another blistering pace was set by both clubs. The same line-ups began the second half that started the first. Good, who got in trouble in the first half, fouled out with 12:26 left in the game; and at that point it looked as if the Miners were going to have to battle it right down to the wire, if a victory was to be had.

Time was called several times during the second half as the referees were frequently trying to get organized with the time keeper. This of course raised quite a dither on each coaches part.

With about 12:04 minutes left the Miners tried to play keep-away, to eat up the clock and were somewhat successful, until with about 4:00 minutes left Harris was only 4 points behind. Fouls again took a toll, but this time it resulted in 3 of Harris's first stringers to hit the showers.

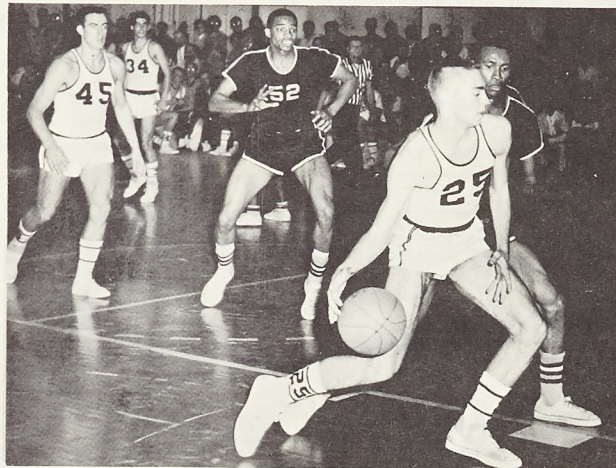
Schuchman, who was contain-

ed very well the first half, opened up for three straight buckets, and a few more free throws and the Miners were out in front again 86-76, with just 3:30 left.

Harris, trying in desperation to overcome the Miners lead pulled to within 5 points, on two quick jumpers by McAlliser of Harris, but the Miners defense barred the door and handed the teachers an elbow swinging, 95-87 defeat.

Schuchman came on strong the

ers with 16, ended up with 21 points which is the exact point total he has had in each of the two preceding contests. Good, in foul trouble all the way, was held to 7 points. Both Wampler and Farber, who played a great defensive game, had 11 and 12 markers respectfully. Wampler was also perfect from the free throw line with 7 for 7. Cooper added 2, and Wolf chucked in with 3 scores while Reichert had



Miners' Howard Has Control.

second half after only scoring 9 points the first half, to lead the scorers with 35 points. He is now the leading scorer in the conference with a 29 point average. Howard, who lead the first half scor-

1 point to round out the Miner scoring.

The big guns for Harris were McAlliser with 25 points, and Jackson who tallied 21.

Miner	Box Score	FG	FT	Pts.
Schuchman	12	11	35	
Farber	5	2	12	
Wampler	2	7	11	
Good	2	3	7	
Howard	9	3	21	
Cooper	1	0	2	
Reichert	0	1	1	
Wolf	1	1	3	
Wallace	0	1	1	

Eight Lettermen Return To MSM Swimming Team

The Missouri Miners swimming team this year is returning to the ranks some 8 lettermen from last year. Kent Horner, who was the second leading scorer on the team last year, will be heading up the squad with his specialties, the butterfly and free style. Accompanying him will be Bob Kadwell, breast stroke; Bob Kulhan, free style; Bill Lamars, diving; Tom Meitz, back stroke; Tom Miller, sprinting; Carl Rydberg, individual medley and free style; and Charles Seger, free style.

Having lost many of the key men on last years team, this year is going to be a process of rebuilding for the future. Much is expected from the new swimmers this year, who are Roger Buecher, diving; Richard Jones, Rich Garret, John Schiefer, Blain Rhodes, Reg Short, and Evan Thomas; all who will be competing for the free style honors.

Everyone is expected to support the team, whose first meet will be with Hendrix College of Arkansas, this Saturday.

The complete schedule for the coming season is as follows:

December 8—Hendrix, Here at 4:00 p.m.

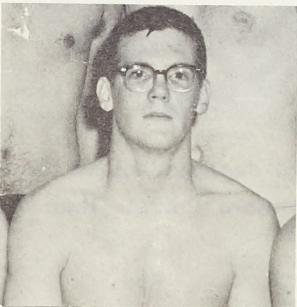
December 14 — Westminster

College, There at 4:00 p.m.

January 11—Washington University, There at 7:30 p.m.

January 12—St. Louis University, There at 7:30 p.m.

February 2—Principia College, Here at 2:00 p.m.



KENT HORNER

February 5—Westminster College, Here at 2:00 p.m.

February 9 — Pittsburg State, There at 2:00 p.m.

February 12—Central Missouri State College, There at 4:00 p.m.

February 15 — Indiana State College, Here at 4:00 p.m.

February 16 — Louisville University, Here at 2:00 p.m.

February 20 — Principia College, There at 4:00 p.m.

March 8-9 — Interstate Meet at Warrensburg.

MSM Lose Swim Meet to Hendrix

By Don Sobczak

On December 8, 1962, our Miners were the host to Hendrix College from Conway, Arkansas.

The swim meet started out with the Miners losing the 400 yard medley relay, holding the lead until the last man. Things really seemed to be looking dim when the score, after the 200 yard freestyle, was 12-4 in favor of Hendrix. We proceeded to lose the 50 yard freestyle and the 160 yard individual medley and the score was now 25 for Hendrix and 9 for our Miners.

However, the tide began to change when Lamers and Buecher for the Miners, took first and second respectively in the diving competition. Following the diving came Horner with a first place in the 200 yard butterfly event. The Miners now had closed the gap to within 8 points of Hendrix College. By taking a second and third in the 100 yard freestyle, our team kept pace with the opposition; and then,

Westminster Surges by Miners For 63-57 Win

A fairly large crowd was host to the Miner basketball team last Tuesday night as they met the cagers from Westminster College.

To set the evening off on the right foot, the Miner junior varsity came from behind, in the last few minutes of their game, to defeat the jay-vees of Westminster by a score of 63-57.

The highlights of the evening came next as the Miners varsity pitted their skills against the cagers from Westminster.

As the game progressed, all was looking well. The Miners got off to a good lead, and were able to keep the score at half-time, in the Miners favor by 7 points. The earlier part of the second half passed with an equal advantage to the Miners, except for the fouls, that had some of the players in trouble. They held their lead all through the third quarter and into the fourth. Then, with only 2:38 seconds left in the game Schuchman and Farber, both fouled out. This was all that Westminster needed. The leading scorer for Westminster, Doza, then turned on his lightning fast scoring ability, and led Westminster to a 63-57 victory, and a disheartening Miner defeat.

All through the contests, free

throws were repeatedly missed by the Miners, which undoubtedly helped attribute to their defeat. Just the reverse was the story in last week's game, where free throws were seldom missed. Good of the Miners, grabbed a season's high of 20 rebounds, while Howard led all scorers with 21 points. Schuchman and Good each had 16, and 17 points respectively. Farber tallied 5 points. Wampler added 6, while Cooper and Wolf each added 1 point.

BOX SCORES

Miners

	FG	FTA	FT
Cooper	0	1	1
Farber	2	2	1
Schuchman	7	5	2
Good	7	6	3
Howard	10	2	1
Wampler	3	0	0
Wolf	0	2	1

Westminster

	FG	FTA	FT
Doza	10	9	6
Howell	4	5	3
Vogeding	2	3	2
Sander	5	4	3
Greech	3	6	3
Vingerer	1	0	0
Franke	2	0	0

1962-1963 MSM Basketball Schedule

Friday, November 30	.....Evangel College	.....Rolla
Tuesday, December 4	.....Westminster College	.....Fulton
Friday, December 7	.....Harris Teachers College	.....Rolla
Tuesday, December 11	.....Washington University	.....St. Louis
Thursday, December 13	.....John Brown University	.....Rolla
Saturday, December 15	.....Arkansas State College	.....State Col. Ark.
Tuesday, December 18	.....Arkansas A & M	.....Rolla
Thursday, December 20	.....William Penn College	.....Rolla
December 27, 28, 29	.....Conference Tournament	.....Maryville
Friday, January 4	.....Harris Teachers College	.....St. Louis
Monday, January 7	.....Central Missouri State	.....Rolla
Saturday, January 12	.....Southeast Missouri State	.....Rolla
Monday, January 21	.....Northeast Missouri State	.....Rolla
Saturday, January 26	.....Southwest Missouri State	.....Springfield
Monday, January 28	.....Central Missouri State	.....Warrensburg
Monday, February 4	.....Southwest Missouri State	.....Rolla
Friday, February 8	.....Northwest Missouri State	.....Rolla
Saturday, February 16	.....Northwest Missouri State	.....Maryville
Monday, February 18	.....Northeast Missouri State	.....Kirksville
Saturday, February 23	.....Southeast Missouri State	.....Cape Girardeau

Meitz came up with a first place in the 200 yard backstroke to put us within 6 points of Hendrix.

The next event finally showed the spirit and drive of our team when Schiefer followed by Kilhan brought our Miners in the lead, point-wise, for the first time. With their first and second places, we had high hopes, at this point, of grabbing the total point honors with only two events left. We kept place with the other team through the breast stroke, but

simply lost the meet by falling behind in the last event. Again the Miners saw a big win go down the drain when the 400 yard freestyle relay was lost, by a Hendrix man taking up the slack and overtaking our anchor man to give them a victory 51 to 44.

Here we see that John Schiefer was high point man for the Miners with seven points.

Over all, we do expect a winning season for our team as they loom very promising to date.

