

# China's army could incite or prevent civil war

**EDITOR'S NOTE:** Wesley Fishel, professor of political science, and Baljit Singh, associate professor of political science, analyze the current social and political situation in Red China, as the first of two parts on the perplexing turmoil in the world's most populous nation.

By RODERICK McILQUHAM

The current power struggle between Chinese Communist Party Chairman Mao Tse-tung and his opponents, reportedly

has China on the brink of civil war.

The loyalty of the army, restrained from entering the conflict until recently, could determine the outcome of the struggle.

MSU specialists in Asian affairs, Wesley R. Fishel, professor of political science, and Baljit Singh, associate professor of political science, believe that the Chinese Communist Party split is complex and that contending factions have had good reason to keep the army out of the struggle.

Both professors expressed their views on China's current crisis in recent interviews.

Questioned on the nature of the party split, Fishel said:

"While we on the outside consider Communist China a monolith, actually it is like any structure, the closer you come to it the more evident are the cracks in the facade and in this case many are really deep fissures reaching into the heart of the party, indicating very basic differences among the Chinese Communist Party leadership."

"What evidence we have is very confusing, but indications are that there are several groups in opposition to Mao which have tried to coalesce to keep him from successfully implementing his ideas and

..... Our analysts .....



SINGH

FISHEL

to prevent themselves from being eliminated," Fishel said.

Fishel emphasized that none of the leaders of the various factions in contention is either anti-communist or non-communist. "Each considers himself a true believer," he said.

The Red Guards, the youth group that has taken Mao's ideological struggle into the streets of China's major cities, Fishel said, are a boldly conceived device created by Mao as a means of developing in short order, very quickly, an instrument of mass power or pressure to enable him to deal effectively and even

ruthlessly with dissident groups within the party.

Before the army's recent entry into the struggle, Fishel said that the situation was not yet a no-holds-barred dispute, but rather a contention for leadership within the party and government.

The divisions within the party leadership, he said, seem to be duplicated within the army. But the leadership realized that it was one thing for civilians to race through the streets shouting slogans and a totally different proposition for the military to enter with their weapons, he said.

(please turn to page 7)

MICHIGAN  
STATE  
UNIVERSITY



## Tuesday STATE NEWS

East Lansing, Michigan

January 31, 1967

10c

## Vacation's over for real, all classes to meet today

By BEV TWITCHELL  
State News Staff Writer

The University will be back to normal academically, at least.

Provost Howard R. Neville said that all classes, day and evening, will be held, and all students and faculty members are expected to attend.

University Secretary Jack Breslin said that all non-academic personnel are also expected to return to work today.

Campus traffic, however, will still be restricted, with only three campus entrances open. These entrances are at Shaw Lane and Harrison Road, Farm Lane and Mt. Hope Road, and Kalamazoo and Harrison Roads. All cars will be screened at the entrances by University Police. Only faculty, staff, students, and emergency and service vehicles will be allowed on campus.

All traffic allowed on campus will be directed to parking lots. Buses are to be used for all campus transportation.

Capt. A. John Zutaut, police commander of the Dept. of Public Safety, said that Parking Lot L at Kalamazoo and Harrison Roads, Lot Y, the commuter lot, and a field east of Lot Y and the old poultry science farm area will be open to anyone. Lot I at the Men's Intramural Building may be used for faculty and staff parking only.

He said they hope to open other lots as soon as they are cleared, possibly late tonight.

Bus service will continue to be free to all students, faculty and staff. Fifteen buses were used Monday, running at five-minute intervals.

Henry W. Jolman, general foreman of the campus bus system, said that 20 buses will be used today, and the only route change will be made to avoid the check-

point at Kalamazoo Road. Buses will now go from Harrison Road to Birch St. to Kalamazoo, and should run at three-minute intervals.

Jolman did not have figures available, but said that more people were riding the buses Monday than could be handled at the five-minute intervals.

He said the free bus service is being run on a day-to-day basis, and did not know how long it would continue.

Burt D. Ferris, superintendent of grounds maintenance, said the grounds crew is working 24 hours a day to remove the snow. Additional equipment has been rented to complete the process.

Roads are being cleared first, for fire

and police protection, Ferris said, and to supply the residence halls with food. Key parking lots are next on the list. Snow is being dumped at Farm Lane north of the railroad tracks.

Philip J. May, University treasurer and vice president for business and finance, said he won't know how much the storm cost the University until the bills for overtime pay and rented bulldozers and front-loaders are in.

"All we've done so far," May said, "is say to do what you can to get the institution going again. When a University with 35,000 students is paralyzed, the important thing, naturally, is getting them back to their classes as quickly as possible."

## Higher ceiling asked on national debt limit

WASHINGTON (AP) -- President Johnson's administration told Congress Monday that unless the debt limit is raised, the Treasury may be paying only half the nation's bills in March.

Secretary of the Treasury Henry H. Fowler asked for a \$7-billion increase in the temporary \$330-billion limit on the amount that may be borrowed to cover Treasury deficits.

Republicans seized the opportunity of debt hearings to open up on government fiscal policies, charging the administration is knocking loopholes in the debt limitation and keeping the public in the dark about mounting deficits.

They hit particularly at what they have

called a budget gimmick, the sale of participation interests in pools of government owned loans.

Treasury payments to more than 25 million people, including Social Security, veterans pension and retirement pay will be in jeopardy after March 1 unless the Treasury gets more borrowing power, Fowler told the House Ways and Means Committee.

Other payments that could be effected, he said, include tax refunds, federal salaries, payments to farmers and to government contractors.

## Summer draft up for doctors

WASHINGTON (AP) -- The Pentagon Monday called for the drafting of 2,229 doctors, including a first-time induction of osteopaths, beginning in July.

The request, placed with the Selective Service, is "necessary to provide the health services required by our armed forces," the Defense Dept. announcement said.

This summer, the armed forces will begin losing several hundred doctors drafted in mid-1965 at the start of the Vietnam buildup.

Seeking to encourage what the committee calls "frank discussion of Vietnam policy," the letter picked at "apparent inadequacies in the rationale for that policy."

Rusk said the country is following a "middle course" in the war and that the country is seeking peaceful negotiations.

The student leaders want to know what this "middle course" is, how it is to be pursued and what its goals are. Presumably, they say, anything between nuclear war and unilateral disarmament could fit such a label.

"We suspect that confusion and uncertainty is being generated by this term," the letter says. It is essential, it says, that the government demonstrate the good faith of its desire to negotiate a settlement.

The letter says any moves towards peace must be "tangible and unequivocal if they are to ease doubts of those here and abroad, who have come to question the sincerity of the U.S. desire to reach a settlement."

Graham emphasized for the committee that they represent a more moderate protest group than the ones normally publicized.

"We offer a more quiet type of dissent -- a type that rarely gets much notice in the press," he said. "But we believe it is a type of opposition getting more and more prevalent on all types of college campuses today."

## Student leaders reassert opposition to Viet war

By KYLE C. KERBAWY  
State News Editor-in-Chief

WASHINGTON -- Stating that the administration is facing the possibility of a "great erosion of confidence among college students" towards U.S. policy in Vietnam, 18 student leaders Monday reasserted their doubts about and dissatisfaction with that policy.

ASMSU Chairman Jim Graham is a member of this "steering" committee, selected from 230 student leaders meeting this week at Dunbarton College. Their criticisms were voiced in a letter to Sec. of State Dean Rusk, the second such letter in a month, released at the National Press Club.

The letter is in response to Rusk's

## Draft violators OK'd for service

WASHINGTON (AP) -- President Johnson signed an executive order Monday providing new regulations to permit men convicted of violating the Selective Service law to be paroled for active duty in the Armed Forces or assignment to civilian work.

The White House noted that similar regulations were in effect during World War II.

Any person convicted of Selective Service law violations may apply, under the new procedure, to the attorney general for parole to serve on combat, noncombatant duty or for assignment to appropriate civilian work.

## KENNAN ON RED SPLIT

## New policies only way out of war



Kennan: "We stand at the parting of the ways . . ."

WASHINGTON (AP) -- Former Ambassador George Kennan cautioned Monday that if U.S. policymakers ignore basic shifts in the Communist world they may miss the only chance to "spare ourselves or our children" from nuclear war.

"We stand today at the parting of the ways with respect to our approach to the Communist world," the one-time envoy to Moscow told the Senate Foreign Relations Committee.

Kennan, credited with being the author of the cold-war containment policy for hemming in the Soviet Union, said the unity of the Communist bloc is a matter of the past, and it will not be restored.

"This Humpty Dumpty will not and cannot be reassembled," he said.

Kennan said also that nuclear war before the end of this century is more probable than possible unless arrangements are worked out to bar the spread of nuclear weapons.

In dealing with Communist powers, he said, the United States should stand firm in the great, crucial matters, but seek accommodations on other topics. In that regard, he urged swift approval of the proposed consular convention with the Soviet Union.

"I see no appreciable dangers involved in it," he said.

"There is a great deal of opposition to it," said Sen. John Sparkman, D-Ala.

"This is a reflection either of great misunderstanding of the nature of Communist power," Kennan said, "or of an entirely unwarranted timidity."

In the Communist world, Kennan added, there are forces willing to contribute to development of peace as well as forces "less inclined" to move toward peace.

"We have it in our power, by the manner in which we frame our policies, to encourage or to discourage either of these conflicting forces," he said.

Roger B. Chaffee left in the same Air Force jet.

Although there was no official confirmation from the board of National Aeronautics and Space Administration, all signs today indicated that a flaw somewhere in Apollo 1's electrical system sparked the fatal flash fire that turned the moonship into a deadly furnace.

There was also reason to believe that the investigators do not know exactly where or how that flaw occurred.

With a military escort, the coffins were carried in civilian hearses from a medical dispensary to the Cape Kennedy airfield, located less than four miles from the launch pad where the spacemen died Friday.

Grieved friends stood solemnly at plane-side, as an Air Force band played Chopin's funeral march, an Air Force hymn, and "Abide With Me" and "Faith of Our Fathers."

Present was a fellow Apollo astronaut, Air Force Col. Frank Borman, a member of the board of inquiry.

## Lansing area may get more snow

The Lansing area may receive an extra dosage of precipitation today as mostly cloudy, warmer weather is predicted with rain or snow and possible snow mixed with freezing rain.

Today's high temperature will be 32 degrees.

This weekend's 24-inch snowfall pushed January's snow accumulation figure to 29.8 inches, compared to January's normal 11.2 inches.

The winter season's snow accumulation so far is 56.7 inches, more than double the normal accumulation for the entire winter season of 25.5 inches.

# STATE NEWS



Tuesday Morning, January 31, 1967

## EDITORIALS

### The spark of death



"The conquest of space is worth the risk of life." -- Astronaut Lt. Col. Virgil I. (Gus) Grissom.

It was a risk accepted and unquestioned by all the men in a daring profession, one where danger was a common place condition and death lurked in the shadows of every new venture.

Gus Grissom--the colorful veteran spaceman from the days of Mercury and Gemini. Ed White--the first American to walk in space, a graduate of the University of Michigan. Roger Chaffee--the handsome and brilliant rookie astronaut from Grand Rapids.

These men had captured the imagination of America, in the sixties, as Lindbergh had in the twenties. They were to lead the way in this final U.S. drive towards the moon, Project Apollo. Friday they perished in one blazing instant, when a swift flash of flame swept through their space capsule, as it sat high atop a Cape Kennedy launch pad.

The shock, the tragedy, and the irony of their death make it something all the more difficult for us to accept. The three fliers died just 218 feet above the ground, trapped in a capsule they were "routinely" checking out for a February

--The Editors

flight. Yet they died as helpless and isolated as if the craft had been hundreds of miles out in space.

There are those now who will question the wisdom of the entire U.S. space program. And while the nation awaits some explanation of Friday's tragedy, the \$23 billion Apollo mission will be forced to pause and answer the inevitable charges of "haste".

But Gus Grissom, speaking on behalf of the trio, best summed up what SHOULD and MUST be, concerning the astronauts themselves and the ultimate direction of our space program:

"If we die, we want people to accept it. We are in a risky business and if anything happens to us, we hope it will not delay the program."

The astronauts themselves were perhaps more prepared for their fate than a generation of youthful Americans, not yet hardened to the task of writing off its heroes.

--The Editors

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### ASMSU word 'game' masks real meaning

The ASMSU Student Board has devised a sugar-coated term to mask a bitter pill.

Last Tuesday the board began a new practice. Before every regular meeting, it will hold an "informal" meeting to discuss new motions. Later, at the formal meeting, these motions will be brought up again and possibly voted on.

#### By invitation

Though ASMSU dubs these little get-togethers "informal," it appears that attendance at them is strictly by invitation. Neither the press nor the general public may attend. The "informal" meeting should be recognized for what it really is--a closed meeting.

The board claims that by first hashing over the motions at the closed meetings, it can shorten the formal meetings. Obviously it thinks that the presence of the press would hamper this hashing out.

#### Reasons untold

In other words, the board members quite likely may take a stance on an issue for reasons they do not want

the student body to hear.

Each board member is entitled to his private opinion, but when he is acting in his capacity as representative of the students, carrying out student government business, his statements should be made available.

#### Communication

To do otherwise would be to break down communication between the board and its constituents. Students would not know the real reason why board members voted for or against certain programs.

We won't buy the closed meeting idea, no matter how sugar-coated the semantics. Closed meetings have no place in student government.

--The Editors

#### Outlook



Bobby Baker, one-time congressional aide convicted of tax evasion, larceny and conspiracy, reports no plans to cut a record.

Entropy is falling.

## OUR READERS' MINDS

### Free enterprise and the multiversity

To the Editor:

As a former student of Wayne State University, with first-hand knowledge of Detroit's inadequate transit system, I have a genuine and abiding sympathy with our dorm-commuting students. A daily exposure to jostling and suffocating bus rides is an unnerving and disagreeable experience.

Therefore, I was astonished to learn (State News editorial, Jan. 20) that the present, ungody Spartan bus system is self-financing and that, according to Mr. Jolman, general foreman of the operation, that introduction of advertising on MSU busses would conflict with the University's policy of supporting the free-enterprise system.

Two points need to be made in this regard. First, there is no mass transit system in the country that can operate without some kind of government or public subsidy. Since the University saw fit to build the dorm complex out on the tundra, common sense (admittedly, a rare commodity these days), would suggest that it also provides a cheap, efficient and reliable means of transporting the student from abode to classroom and back. Responsibility, I think, should accompany noble ambition.

Second, there can be no question but that all of us must strive to help the University maintain and perpetuate the pristine beauty of free enterprise. But if this laudable goal is to be more than a handy smokescreen used to justify University policies that adversely affect the students (as, for example, participating in the bookstore cartel with private merchants across Grand River Avenue.), I would suggest the University apply the

tenets of free enterprise across-the-board and in a non-discriminatory manner. Thus, I should like to offer a modest program. It might include: (1) a faculty salary system based on direct payments made by attending students--for instance, a coin-operate turnstile could be set up outside each lecture hall; such an approach could encourage interesting, well-organized and oft-revised lectures; (2) abolition of tenure, i.e., no guaranteed employment; this could generate the competitive spirit among the faculty and perhaps result in higher quality teaching and publication records; (3) abolishment of

all athletic and academic scholarships or, alternatively, wage payments based on the going market rate for these special skills; the effect may be to avoid the need (or the temptation) to supplement the income of certain bright but indigent or highly talented individuals with under-the-table sugar plums; (4) direct student representation on the board of directors (or whatever) commensurate with their investment in the University; this would be consistent with the existing American corporate system whereby each share of stock entitles the holders to a vote on the composition of the ruling

body. Finally, perhaps a true test of its cherished beliefs, the University could refuse to accept any federal assistance financial or otherwise.

This modest program by no means ex-

#### Powell is no hero

To the Editor:

In response to the letter of Barry D. Amis I would comment, "How white him."

It is hardly complimentary to any group to set up a man like Adam Clayton Powell as embodying a "new spirit" representing their group. For Negroes have so many truly fine people of Negro descent to emulate and admire. People who have maintained their dignity and sense of worth as a human being while still being "outspoken, courageous and flamboyant." They are, in fact, worthy of admiration by all fellow human beings.

Adam Clayton Powell uses his partial "blackness" for his own purposes. He gets him elected and keeps him in office. (He will probably succeed himself once again.) He is using it now to keep him from prosecution, not the persecution he claims.

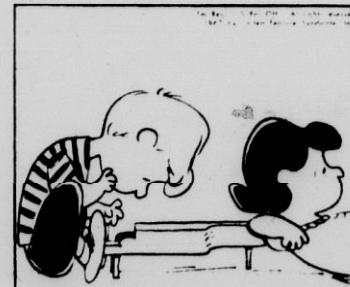
During his college days Powell didn't feel his "blackness" was such an asset. He passed for white and nearly joined a white fraternity. Except for Hazel Scott, his wives and girlfriends are white. He's never been poor and is hardly in a position to really identify with his ghettoized electorate. His constituents are useful and support his self-indulgences. In return, he puts on a great show. He is what I term a Professional Negro.

The law suit that started all this was instituted by a Negro woman against whom he was convicted of libel. It would appear that in this case he thumbed his nose at the wrong time and therefore started the crumbling of his own empire.

Powell is a handsome rascal. He has style, is an articulate spell binder, and a great lover. But, Baby, hardly a hero to cause anyone to lose his cool over.

Shirley Lacy, faculty wife

HOW DID BEETHOVEN FEEL ABOUT COLD CEREAL?



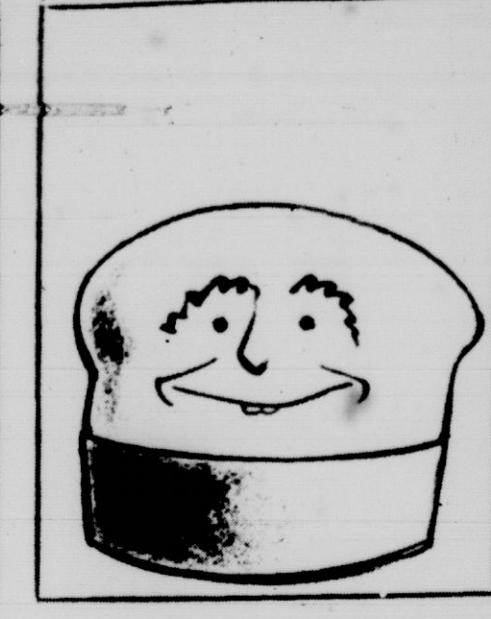
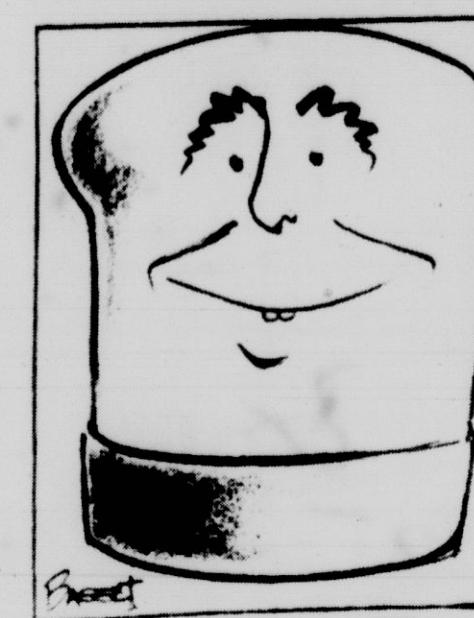
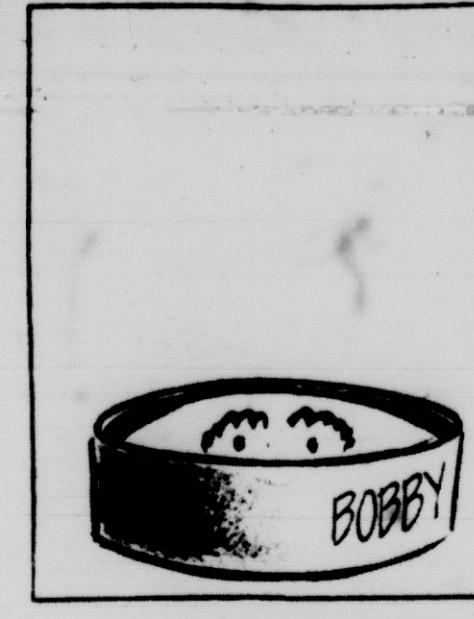
His column concerning bootlegging in Alabama, although largely factual, contained some very misleading statements.

Although the production of alcohol in Alabama is indeed illegal, the consumption of same is legal. However, various cities and counties have made alcoholic beverages unlawful according to local option. All alcohol, excepting beer, is sold by the state government through the Alcoholic Beverage Control Commission stores.

State liquor taxes are relatively heavy, but the ABC board obtains substantial discounts and as a result retail prices for liquor in Alabama are comparative to those in Michigan. Alabama beer is also taxed by the state, but one need not pay more than 30 cents a can by the carton or case wherever such purchase is legal.

Naturally if a retailer sells alcohol in a dry county or to a minor he would be expected to charge more. If Mr. Phillips paid 50 cents a can for beer, his case appears to be one in which the shrewd Yankee got shafted by the ignorant hillbilly. It may be of interest to observe that all of the income to the state through the sale of alcoholic beverages is earmarked for the state's schools and mental institutions.

Noted with interest were Mr. Phillips's observations on the racial situation in Alabama. Having spent a year and a half



Baker's disaster

#### TED MILBY

### Graham's trip, mission or junket?

This week Jim Graham, chairman of ASMSU, is in Washington to speak with Sec. of State Dean Rusk and to help draft a letter to President Johnson concerning U.S. policy in Vietnam.

At first impression, this seems an admirable undertaking, a student leader speaking with the nation's leaders about his constituent's feelings on a national problem. What could be more democratic, more American?

But it is not so simple as that. For one thing, Graham does not know how the student body feels and it does not know how Graham feels except in a general and second hand way.

To further complicate matters, ASMSU donated \$50 to Graham to help defray the costs of the trip.

This was an interesting appropriation. Theoretically Graham is going not as chairman of ASMSU, but as a private individual.

If this is the case then ASMSU is spend-

ing student tax money on a private junket, and, to be perfectly fair, should give an equal amount to any student requesting money to take advantage of a "tremendous opportunity" (Graham's term).

But of course this is not the case. Graham would not be making the trip were he not the chairman of ASMSU nor would he get the money.

Furthermore, whatever Graham says will not be taken as the opinions of Jim Graham, private student, but Jim Graham, chairman of ASMSU, and whatever he says will be taken as representative of the feelings of MSU students.

#### Question of accuracy

This raises the question of the accuracy of Graham's representation of the MSU student's views on Vietnam.

In a letter to the State News last week Graham stated he has never publicly stated his views on Vietnam. But his views are no tightly guarded secret. In the debate over spending the \$50 on the trip one of the arguments against the appropriations was that spending the money would appear to be an endorsement of Graham's opposition to the war. This objection was raised by Graham's fellow board members who undoubtedly have discussed the matter with him in private and know his general position.

#### On the contrary

This position is directly contrary to the only known gauge of MSU student opinion (except those reflecting the views of only a few students). This was the petition supporting President Johnson's position in Vietnam which circulated last fall and which collected over 15,000 signatures. Of course this petition cannot be taken as an accurate view of the student body's views either. The wording on the petition was vague and, since the time it was circulated, opinions on campus seem to have changed considerably due to increased commitment, the growing casualty rate and the opening of the "credibility gap."

The fact remains, however, that this is the only available gauge of student opinion, and until something concrete supersedes it, it should be respected. The situation boils down to this: if Graham is not representing MSU students and ASMSU, then ASMSU donated \$50 to him for a joy ride; if Graham is representing MSU, a more likely state of affairs, then Graham is purporting to represent student views with no indication of the views of the students he is purporting to represent.

David A. Penz  
Tuscaloosa, Ala., sophomore

#### Nostalgic

To the Editor:

Richard Phillips's nostalgic series on his trip to Alabama sounded like the nostalgic croakings of Aryan visitors to Nazi Germany, but then they weren't Jewish, either.

Corrine Jennings  
Providence, R.I.  
graduate student



## World News at a Glance

### Czech-American faces secret trial

PRAGUE, Czechoslovakia (AP) -- A court decided today to hold the espionage trial of Vladimir Kazan-Komarek, a Czech-born American, behind closed doors to protect state secrets, but admitted two U.S. Embassy representatives to the closed sessions.

Kazan-Komarek, 42, is charged with organizing activities against the Communist regime almost two decades ago.

### Refugee says USSR aids China rebels

ISTANBUL, Turkey (AP) -- A Soviet-based Turkistan refugee army has been making guerrilla raids inside Communist China's rebellious Sinkiang province, a Moslem refugee official said Monday.

The assertion was made by Isa Yusuf Alptekin, president of the Eastern Turkistan's Refugees Association. Eastern Turkistan is the Turkish name for Sinkiang.

### 'Fascist' emigrants blamed for blasts

BELGRADE, Yugoslavia (AP) -- Yugoslav papers said Sunday explosions at Yugoslav diplomatic missions in the United States and Canada were the result of U.S. and Canadian tolerance of "Fascist" Yugoslav emigrants.

One paper, the government's Politika, said the blasts represented "retaliation" by "American and Canadian official circles, or perhaps only one of them," to the Yugoslav attitude against the war in Vietnam.

Alptekin said in an interview the Soviet Union established a secret military school for the Turkistan refugees, concentrating on guerrilla warfare, commando tactics, and public administration. Location of the school has been kept secret, he added.

Alptekin's allegations could not be confirmed.

### Refugee says USSR aids China rebels

# Labor strikes, violence follow arrests in Spain

MADRID (AP) - Spanish student and worker protests over police arrests snowballed Monday into a violence-studded problem for the government of Gen. Francisco Franco.

Many students were detained at Madrid University, where students and security forces clashed in a pitched battle of stone and clubs. At least three foreign newsmen observing the clashes were beaten by police.

Witnesses estimated that 50 students and police were injured, some seriously, as the police barred a student attempt to march to the rector's office to demand release of classmates seized

after a similar struggle Friday.

At the same time, more than 7,000 miners in the Asturias coal fields 280 miles north of Madrid began a strike, demanding freedom for 10 leftist-oriented union representatives arrested for what the civil governor said was instigation of a Communist-inspired, 24-hour work stoppage.

There were other strikes in Madrid and Barcelona as authorities sought to end the snowballing movement of students and workers.

At Barcelona, more than 5,000 textile workers left their posts, demanding the release of work-

ers detained Friday during attempts of opposition groups to swing a massive protest demonstration across the nation.

Almost 15,000 Madrid employ-

ees of the American-controlled Standard Electric Co. began a similar work stoppage for the same reason. But they returned to their jobs within half an hour.

At about 12:45 p.m., the ex-

change announced that volume change soared Monday to the so far this month had topped the highest monthly level in history. Old record of 191,524,000 shares traded in 23 trading days in March

in the first 20 trading days of 1966.

January reflected a resurgence of confidence that exploded at the beginning of the new year.

## Ex-Nazi on trial for Dutch deaths

MUNICH, Germany (AP) - A photograph of a smiling girl with large intelligent eyes was held up today before a former SS - Elite Guard - major on trial on charges of aiding in the murder of 55,582 Dutch Jews.

"Do you know this child?" lawyer Robert M. Kempner asked the defendant, Wilhelm Zoepf, 58.

Zoepf: "Yes, That's Anne Frank."

Kempner: "This girl was reported under your responsibility."

Zoepf: "Yes, I know that."

Kempner: "What do you think of this now?"

Zoepf: "I had never seen her before. But one is horrified because she is a child."

Kempner: "I charge you that, in individual transports, 48 per cent were women and 22 per cent children."

Zoepf: "We wanted to keep the families together."

Kempner, a former U.S. Deputy prosecutor at the Nuremberg war crimes trials, is representing Otto Frank, Anne's father, in the case against Zoepf.

After her death in the Bergen-Belsen concentration camp in 1945, Anne's diary became world famous. It describes the Frank family's two years in hiding in an Amsterdam attic.

Zoepf, who once headed the Nazi Jewish Affairs Office in the Netherlands, is on trial with his former superior, ex-Maj. Gen. Wilhelm Harster, and his former secretary, Gertrud Slotte.

## LBJ hits air pollution

WASHINGTON (AP) - President Johnson Monday called for an all-out assault on air pollution.

"The economic loss from pollution amounts to several billions each year," Johnson said in a special message to Congress.

Johnson's first recommendation was for an air quality law to control mission levels for industries.

He also proposed the establishment of regional commission to enforce pollution control measures in "air sheds" which cross state and local boundaries.

## 'U' to ask med school funds

A supplemental budget request for MSU's recently approved four-year medical school will be sent to Governor Romney's office in the very near future, Jack Breslin, university secretary, reported Monday.

The supplemental request must first be approved by the MSU Board of Trustees.

A formal presentation of the MSU's budget request will be

made by various administrators sometime in February.

The State Board of Education approved the expansion of MSU's medical school from two to four years Jan. 25.

Romney said in a press con-

ference Thursday that the recom-

mendation came too late for his

current budget proposals.

"It will not be dealt with in

my budget message which I had

put to rest before the board's

action was taken," he said.

MSU currently has a \$10-million capital outlay request for

the first Life Science building

and \$875,000 for operations of

the present two-year school.

The supplemental budget will

request additional funds to begin

development of the full medical

school, but Breslin had no def-

inite figures as yet.

Current plans would have the

full medical school in operation

by 1969.

### Tutors needed

MSU's English Language Center is looking for volunteer tutors for foreign students studying English. Interested parties may call the center at 353-0800.

## NOTICE TO ALL STUDENTS

### Academic Advising, Enrollment, and Registration For 1967 Spring Term

#### GENERAL INSTRUCTIONS FROM THE REGISTRAR

During the period February 1-3, obtain a 1967 Spring term Time Schedule For Courses and a Student Schedule Card . . . (available to dormitory residents in their residence hall on Wednesday, February 1; and to other students in the first-floor concourse of the Union Building, and the Center for International Programs, on Thursday-Friday, February 2-3, during the hours 8 a.m.-5 p.m.).

A summary of what to do -- where, when . . . concerning the enrollment and registration procedure for Spring term is outlined in the 1967 Spring term Time Schedule For Courses.

If your Student Academic Progress Plan (or similar planning form that may be used in your college) needs updating,

see your academic adviser according to the arrangement in your college (and possibly department) as outlined below:

#### COLLEGE OF ARTS AND LETTERS

All Students in the College of Arts and Letters, except Art Majors, should see their academic advisers during their office hours on Monday, Tuesday, and Wednesday, February 13, 14 and 15. Advisers will be in their offices at least one hour each afternoon and morning of these three days. Check with department offices for the hours of individual advisers. Make an appointment to minimize waiting in line or if you cannot come at the hours scheduled. You may also see your adviser before these dates during his regular office hours or by appointment.

Bring with you a trial program!

Art majors and minors should see their art advisers on Monday, February 13. All art classes will be dismissed on that day and advisers will be in their offices from 8-12 and 1-4.

#### COLLEGE OF BUSINESS

All students, including graduate students, should see their advisers during regular office hours. Academic advising is a continuing process in which a student and a faculty member discuss possible options in a student's potential career, total education program, and chosen major. Enrollment is a student responsibility in selecting courses for term schedule from a student's academic plan previously developed but continually reviewed with the adviser. Electives should be reviewed and approved periodically by the adviser. General electives taken during the Junior and Senior years should be primarily at the 300-400 level. The required upper level Economics electives are often used as a supplement to the student's major requirements and should be selected in consultation with the adviser or from an approved departmental list in the major department. All students in the College of Business are responsible for studying and knowing University, College, and Departmental requirements as stated in the MSU Catalog.

Juniors and Seniors should conform to catalog requirements and to the additional College policies carried in a statement mailed to all upper level students just prior to the opening of Fall term. (A copy of this statement is available in 313 Berkey Hall). Upper level students in the College of Business (1) should not repeat "D" grades, (2) should not exceed the 12 credit repeat limit, (3) should not schedule excess credits, (4) should not take graduate courses, (5) should not request permission to drop courses after the official mid-term date except for catastrophic reasons, and normally should not request permission to drop courses after the free drop period provided at the beginning of the term. The Office of Assistant Dean is responsible for enforcing such policies and may enforce them by the use of Dean's Drops, withdrawal of College registrations, specific request refusals, and other means not popular with students who do not conform to clearly stated College of Business policies.

Seniors, starting their senior year, should submit an adviser-approved student academic progress plan for the Assistant Dean's file. This plan should clearly show how the student plans to meet his graduation target with all course requirements met. Seniors may leave their senior year academic progress plans with their advisers for transmission to the Assistant Dean's Office or bring them to the Office personally. First term seniors are encouraged to make appointments during the forthcoming term with Mr. Mier or Mr. Morris in 313 Berkey Hall (5-7605-Assistant Dean's Office) to discuss their senior year academic progress plans and their graduation requirements. A senior is certified for graduation by his major adviser and by the Office of Assistant Dean. While the student is responsible for knowing and meeting all graduation requirements Mr. Mier or Mr. Morris are available to help, in addition to the student's adviser, in interpreting requirements and handling senior year scheduling problems. If no plan is submitted it is assumed that the student will graduate at an indefinite future date when all requirements are met.

#### COLLEGE OF AGRICULTURE

Agricultural Business, Feb. 6-7-8, By Appointment.  
Agricultural Communications, Feb. 8-9 - 8:00-5:00.  
Agricultural Economics, Feb. 14 - 8:00-5:00.  
Agricultural Education, Freshmen - Feb. 7 - 9:00-3:00; Sophomore - Feb. 8 - 9:00-4:00, Feb. 9 - 9:00-3:00; Junior - Feb. 6 - 8:00-3:00, Feb. 13 - 1:00-5:00; Senior - Feb. 3 - 4:00-5:00, Feb. 8 - 8:00-5:00.  
Agricultural Engineering, Feb. 6 Through 10.  
Animal Husbandry, Feb. 8 Through 16 - By Appointment.  
Biochemistry, Feb. 1 Through 16.  
Crop Science, Feb. 9 - 10.  
Dairy, Feb. 15 - 8:00-4:00, Feb. 16 - 8:00-5:00.  
Extension Personnel Development, Feb. 13-14-15 - 8:00-5:00.  
Fisheries And Wildlife, Feb. 7 Through 10, By Appointment with Adviser.  
Food Science (New Building-Room 234B), Feb. 7-8-9 - 8:00-5:00.  
Forest Products, Feb. 7 Through 10.  
Forestry, Feb. 8 - 8:00-5:00 & 7:00-10:00 P.M., Feb. 9 - 8:00-5:00.  
Horticulture, Feb. 9-10.  
Packaging, Freshmen & Sophomores - Feb. 10; Juniors - Feb. 8 & 9; Seniors - Feb. 6 & 7; Graduates - Feb. 13.  
Poultry Science, Feb. 1 Through 16.  
Resource Development, Feb. 13 - 8:00-12:00, Feb. 14 - 1:00-5:00, Feb. 15 - 8:00-12:00.  
Soil Science, Feb. 6 Through 9.

#### COLLEGE OF VETERINARY MEDICINE

##### Preveterinary

All students enrolled in the regular and upper level special preveterinary programs should check with their academic adviser and, if necessary, schedule an appointment.

##### Veterinary

(1) Students enrolling in Terms 1 or 3 (new curriculum) should make an appointment with their academic adviser (Room 178 Giltner Hall).  
(2) Students enrolling in Terms 5, 7, or 9 (new curriculum) will be "mass-enrolled" by the Dean's Office. Students not wishing to be included in "mass-enrollment" must notify the Dean's Office by February 6.  
(3) Seniors (old curriculum) will not be "mass-enrolled."

##### Medical Technology

All student come to Room 179 Giltner Hall to schedule appointment with adviser.

##### Graduate

Meet with major professor.

#### COLLEGE OF SOCIAL SCIENCE

Labor & Industrial Relations - All majors should see their advisers Friday, Feb. 17, between 9:00 and 5:00.

Social Science - Office hours of the advisers are posted in 245 Fee Hall.

Anthropology-No special instructions.

Geography - Students will be notified. If you do not receive a letter, please call the Department, 5-450.

Political Science - Feb. 15 or 16 any major who wishes to see his adviser should call the Department Office, 355-6591, to make an appointment.

Psychology-Office hours of the advisers will be posted on the bulletin boards across from 109 Olds Hall.

Sociology-Students will be notified by mail. If you wish to see your adviser for early enrollment, their hours are as follows:

Dr. Conner - Feb. 13, 14, & 15, 10:00-12:00 and 3:00-5:00.

Dr. Hoffer - Feb. 13, 14, & 15, 10:00-11:30 and 3:00-4:30.

Dr. Hurley - Feb. 13 & 14, 9:00-12:00 and Feb. 15, 1:00-4:00.

Dr. Trout - Feb. 13, 14, & 15, 1:30-4:30.

Police Administration and Public Safety-Students who have not had their programs planned for the Spring term should report to Room 412 Olds Hall on Feb. 13, 14, or 15.

Social Work-Students will be notified. If you do not receive a letter, please call the School, 5-7517.

Urban Planning - Students should see their advisers as follows:

Mr. Barr - Feb. 16, 9:00-12:00 & 1:30-5:00; Feb. 17, 2:00-5:00.

Mr. Farness - Feb. 16 & 17, 1:00-5:00.

## Benington's subs fill the cage bill

Some of the greatest athletes in the world were, for many years, either ignored or undiscovered.

Eddie LeBaron, Maury Wills and Bob Cousy, were all told they lacked the stuff necessary to be a professional, and each one of them came off the bench and proved the experts wrong.

In last Saturday's basketball game against Wisconsin, Spartan Basketball Coach John Benington called on his bench, as he indicated he would before the game, and the reserves did not let him down.

Benington started John Holms in place of Art Baylor at forward, and Holms, while he was in the game, did such a good job guarding high scoring Badger forward Chuck Nagle, that Nagle could manage only three field goals.

Jerry Giesler also saw action and did a commendable job on Wisconsin's seven-foot center Eino Hendrickson.

And then Benington made the biggest move of the day. He put Shannon Reading in the game and Reading responded with seven field goals and 15 points. Reading played in Baylor's forward spot for much of the second half.

"I felt we might have to go with (Steve) Rymal or Reading at forward to give us a little more scoring punch," Benington said. "It's an option I'll use depending on the team we play."

Benington said he always knew Reading was a good shooter, but was surprised at how well Reading took to the forward position.

The MSU coach also expressed surprise at Wisconsin Coach John Erickson's decision to start Hendrickson in place of Jim Johnson, who had started the previous two games.

Benington said he expects to start Holms again Wednesday against Notre Dame. This, he said, will allow more maneuverability of Baylor, at forward and center.

"I'm liable to start anybody at South Bend," he said. "I may start Richie Jordan at one of the guard spots."



Above the crowd

Bjorn Wirkola, world champion ski jumper from Norway, turned on his championship form Sunday at the Blackhawk Ski Club's ski jumping contest in Middleton, Wis., to better the meet record by six feet. Wirkola's record jump measured 206 feet. UPI Telephoto

## SPORTS

### STARTS IN APRIL

## Backed by millionaires, pro soccer comes to U.S.

By DENNIS CHASE  
Associate Sports Editor

Those sport enthusiasts who for some reason are not getting enough action can settle back in their seats, grab hold of an all-day sucker, and relax. Starting in April and extending through September, soccer will be added to the already crowded U.S. sports scene.

Players and coaches from all over the world will participate in a television-produced, money-backed extravaganza designed to satisfy even the most skeptical follower.

This is big business, and the fellows who are backing the venture aren't kidding. Soccer is coming to this country after playing to 150,000-plus crowds all over the world.

Two leagues are involved. The National Professional Soccer League has ten teams and will begin a 32-game schedule in April. The league has not been sanctioned by the International Soccer Federation because it refuses to pay television royalties to the Federation, and because it has declared itself a "free market" for signing players, disregarding the Federation's restrictions.

The North American Soccer League has twelve teams and is sanctioned. It will not begin play until May, 1968. Backers for this league include William Clay Ford and Edwin J. Anderson of the Detroit franchise, Judge Roy Hofheinz, owner of the Houston Astros Baseball Club and Astrodome Stadium, of the Houston franchise, and Lamar Hunt, owner of the Kansas City Chiefs football team and son of H. L. Hunt, the richest man in the United States, of the Dallas franchise.

These guys aren't accustomed to losing money. Both leagues are television creations. CBS will subsidize the National Professional League to the tune of \$1 million, in hopes of expanding the relatively small number of hard core fans into something approximating the football and baseball turnouts.

It is a gamble. The Ford-Anderson group is betting that an estimated 20,000 Detroit enthusiasts will increase enough to make up for the early deficits. "Soccer has never reached the status of a truly major league sport in North America because of many factors, most important being proper financing," says the North American League brochure.

"The North American Soccer League has the financial stability to make this long cherished dream a reality.

"Our program . . . will sell soccer to the sports public and create an eager interest in our league opening."

The backers intend to use every advertising and promotional gimmick available, and they have the money to do it.

But there are a number of problems.

Foreign players, in some cases whole teams, are being imported on the theory that if the public were forced to watch a bunch of duffers kick each other in the shins, interest would quickly disappear.

"We have the best athletes and facilities in the world," says Nick Krat, former MSU All-American and last fall's assistant soccer coach. "Unlike other countries we have all nationalities represented and eager to play."

Krat has signed with the Chicago Spurs of the National Professional League.

Although foreign players will dominate the game at first, Spartan soccer coach Gene Kenney estimates it will be five years before the sport is "Americanized" and a system of minor leagues is started.

Soccer's advantage over other beginning sports is that it will have skilled players competing at the onset. Training North Americans will be the major task, rather than learning the game anew.

Soccer is a fast game, with long shooting, much body contact, tight defenses and low scores.

"There is no danger of having too much pro soccer," a spokesman for the National Professional League said. "The future of the game is secure in this country. The day may come when our ball parks aren't big enough for soccer."



By TONY FERRANTE

Rose Lake station, informs me that rabbits are at an all-time high in this area.

This probably holds true statewide since Rose Lake is a pretty good barometer of general conditions.

In some zones, bobcat, woodchuck, and badgers are also fair game. Of course, certain so-called "trash" animals—coyote, fox, red squirrel, crow—can be taken any time; there's no closed season.

Winter? So what's up? Now really. Use that woods sense you brag about so much to a duffer while dressing-out your white tail. Just look around, there's outdoor sport a-plenty.

Ice fishing is going full blast on frozen Michigan waters. Shanks are up, toes are cold, and fish are being caught.

Tip #1. Try late afternoon or on overcast days. It may be colder, but the ones who regularly fill their creels swear by it.

As for hunting, a quick glance at the small game digest tells the story. There's a number of species to be had. Cottontail and snowshoes can be taken throughout the state until March 1, and Gordon Zorb, game biologist at the Conservation Department,

notes that there's very light hunting pressure on fox in that area, and a number of animals are "available."

The boring, indoor winter months need not be so. Why let that double gather dust on the rack? Your '66 small game license is still good, but the game is out in the woods, not down in the grill.

Furthermore, eating last fall's buck all winter can be monotonous. Try a change now-and-then by filling yourself with a freshly killed hasenpfeffer.

### BYO--Towels

Those participating in activities at the Men's I.M. are asked to bring their own towels through this week. There is a towel shortage due to the storm.

### SUMMER JOBS IN THE ROCKIES

Over 2,000 job opportunities with resorts, dude ranches, summer camps, national parks, construction companies, oil fields, airlines, etc. shown in 1967 Rocky Mountain Summer Employment Guide. Also: how to get FREE transportation to these jobs and special information on summer stewardess jobs (U.S. and overseas). Only \$3 money back if not completely satisfied. Beat the rush, apply now!

Serving students since 1963.

UNIVERSITY PUBLICATIONS Dept. 36, Box 20133, Denver, Colorado 80220

Please rush my copy of the Summer Employment Guide. Payment of \$3 is enclosed.

Name . . . . .

Address . . . . .

## How to Succeed in Banking\*

### Check these:

- ✓ Resources have grown from \$57 million in 1940 to \$950 million in 1965
- ✓ FORTUNE magazine listed Michigan National first in earnings on capital among the top 50 U.S. Banks in 1963, 1964 and 1965
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- ✓ 45th largest bank in U.S.
- ✓ 144th largest bank in the world

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Majors in Accounting, Banking, Business Administration, Finance, Economics, Marketing and the Liberal Arts.

### Banking that is Building Michigan . . . and Careers

#### Interviews

William Ewing,

Personnel Director

Campus Interviews

February 2, 1967



**MICHIGAN NATIONAL BANK**

416 Michigan National Tower  
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See July 15, 1966 issue of FORTUNE Magazine

647



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Over 10, 15¢ per word, per day.

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CHEVROLET'S, 57's to 60's. The sharpest in town. JOHN'S AUTO SALES, Exclusively Chevrolets, 816 R. G. Curtis, two blocks north of Miller and Washington. C-2/2

**Problem:**  
People don't believe our used VW's are used.

This must be because we recondition our used Volkswagens to the highest standard we can achieve. Then we guarantee them for 100% for thirty days or a thousand miles.

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1963 Fiat 1200 Roadster Convertible. Radio. Like new inside. \$795. 1962 Valiant. 2 Door Hardtop. Automatic Economy 6. Bucket Seats, 36,000 Actual Miles. Like new red interior. Ready \$695.

1966 BMW 1800. 4 Door Sedan. White with black interior. Yours for Only \$2295.

**PHIL GORDON VW**  
USED CARS  
E. GRAND RIVER AT HOWARD  
484-1341

The State News does not permit racial or religious discrimination in its advertising columns. The State News will not accept advertising which discriminates against religion, race, color or national origin.

**Automotive**

CORVETTE STINGRAY Convertible, 1965, 327, V-8, 4 speed, AM-FM radio, power antenna, mint condition. Must sell. \$300.00 and take over payments. 627-5949 after 6 p.m. 3-1/31

ENGLISH FORD Cortina - 1962-3. Two door, five passenger. Good condition. Good mileage. \$495. Call 351-5101. 3-1/31

FORD 1956. Runs. \$30. Studebaker 1956 Hawk. Good snow tires. \$75. THE CHECK POINT. 332-4916. C-2/2

FORD Galaxie, 1964. Hardtop, V-8. Must sell, any reasonable offer. 355-0865. 5-1/31

OLDSMOBILE 1966 Deluxe F-85, 330 cubic inch, 4-speed. Excellent condition. Still under warranty. Take over payments. 627-5949 after 6 p.m. 3-1/31

OLDSMOBILE 1959, SS convertible. \$100. Good mechanical condition, new rubber. 332-3617. 5-2/2

TRIUMPH 1964 convertible, excellent condition. Take over payments. Phone IV 9-6792. 3-1/31

VOLKSWAGEN 1958. Extras. Needs valve job. \$125.00 or best offer. 355-1198. 3-1/31

**Auto Service & Parts**

NEW BATTERIES, Exchange price from \$7.95. New sealed beams, 99¢. Salvage cars, large stock used parts. ABC AUTO PARTS, 613 E. South Street, IV 5-1921. C

ACCIDENT PROBLEM? Call KALAMAZOO STREET BODY SHOP. Small dents to large wrecks, American and foreign cars. Guaranteed work. 482-1286, 2628 E. Kalamazoo. C

MEL'S AUTO SERVICE: Large or small, we do them all, 1108 E. Grand River. 332-3255. C

CAR WASH: 75¢. Wash, wax, vacuum. U-DO-IT, 430 S. Clipper. Back of KOKO BAR. C-2/2

**Totally Unique**

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Reserve your apartment now for  
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**332-4432**

102 HIGH STREET, GRAND BLANC,  
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**Automotive**

MASON BODY Shop, 812 East Kalamazoo Street - since 1940. Complete auto painting and collision service. American and foreign cars. IV 5-0256. C

SNOW TIRES for imported cars. PIRELLI Invernos. The world's best. \$14.10 up. THE CHECK POINT, authorized Pierelli dealer. Phone 332-4916. C-2/2

**Aviation**

FRANCIS AVIATION will finance your flight training. Trial lesson, \$5.00. Single and multi-engines. 484-1324. C

**Employment**

HOUSEBOY WANTED at the ZBT house, 332-3218. Ask for Andy or Rose. 3-1/2/

BUS BOYS NEEDED. Excellent meals. Sigma Kappa, New kitchen. ED 2-3355. 4-2/3

GREAT LAKES EMPLOYMENT for permanent positions for men and women in office, sales, technical. IV 2-1543. C-2/2

EMPLOYERS OVERLOAD COMPANY, Temporary assignments for experienced office girls. No fee, top pay. Phone 487-6071. C-2/2

EARNINGS ARE unlimited as an AVON representative. Turn your free time into \$\$. For an appointment in your home, write Mrs. Alona Huckins, 5664 School Street, Haslett, Michigan or call 2-6893. C-2/2

TV RENTALS for students. Economical rates by the term or month. UNIVERSITY TV RENTALS. 484-9263. C

**Apartments**

ONE GIRL wanted for four girl apartment. Spring term. \$55.00. 351-7638. 3-2/2

63 NEW LUXURY sound proof units  
**UNIVERSITY VILLA**  
A PARTMENTS  
- 635 ABBOTT ROAD  
- WALK TO CAMPUS  
- COMPLETELY FURNISHED STUDENTS 2-BEDROOM FLEXIBLE UNITS  
- LET US HELP YOU FIND A ROOMMATE  
3 Man Units

65.00 each per month  
2-Man Units available  
Furnished Model Open Days & evenings: See Manager or call 332-0091 or 332-5833

ONE GIRL needed for University Terrace apartment. Call 351-7643. 5-2/6

SPECIOUS TWO-bedroom. New. All modern appliances, air conditioning, \$150.00. 882-7691. 5-2/6

ONE MAN for two man luxury apartment immediately. Contact Dick, 351-9567, 144 Standard. Apartment 19. 3-1/31

1318 EAST OAKLAND Street. Graduate student or professional. 489-4839. 5-1/31

THREE GIRLS; house for six. \$10.00 week plus utilities. 337-7116. 3-1/31

ROOM SUPERVISED. Block from Berkey. Carpeting, cooking. \$11. Don, 351-6807. 3-2/2

MEN: SUPERVISED, 1/2 double \$9.00, cooking, parking. Two blocks from Berkey. 332-4978. 5-1/31

MEN: Single, close, quiet, parking. \$12.00 weekly. 332-0939. 5-2/6

**Rooms**

WASHING MACHINE, ring type. Clean, excellent running condition. \$40.00. 372-1233. 3-2/2

20 GALLON aquarium. Slate bottom, stainless hood, light, filter. 337-0581. 2-2/1

SEAL POINT Siamese kittens for sale. Call 351-7535 or ED 2-6947. 5-2/6

**Mobile Homes**

DETROITER, 10 x 50. Two bedrooms. Leaving state. Immediate possession, balance on contract. 372-2512. 3-2/2

**Lost & Found**

LOST KEY ring Thursday night between McDonnell and Olin. 353-1102. 3-2/2

LOST: GOLD wedding band with three diamonds, star-shaped insets. Reward. 353-6527. 3-2/2

**Personal**

THE CIGAR BAND -- The guaranteed sound known throughout the State. 337-7086. 4-2/3

THE LOOSE ENDS - The sound you can feel. Organ, guitar, base, drums. Call Tom, 485-0761. C-2/2

GET ON THE TRAIL of big values in all sorts of things. Check "Miscellaneous" in Classified now.

FREE!!! A Thrilling hour of beauty. For appointment call 484-4519. MERLE NORMAN COSMETICS STUDIO, 1600 E. Michigan. C-2/2

LAUNDRY, CLEANERS, Pay less for the best. Wash - 20¢, Dry - 10¢. Suits cleaned, pressed - \$1.50. Slacks, sweaters, Sport coats - 75¢. WENDROW'S 3006 Vine Street, one block west of Sears. Hours 7 a.m. - 11 p.m. C-2/2

NO BETTER TIME than now to find the home you want in the Classified Ads.

TV RENTALS for students, \$9.00 month. Free service and delivery. Call NEJAC. 337-1300. We guarantee same day service. C

THE SOUNDS: THE SONDETTEES: Present the Motown sound on campus. 351-9155. C

**For Rent**

FURNISHED, DELUXE, near post office. Short term rental. Garage. ED 7-9566. 5-2/2

Graduate and Married Students

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APARTMENTS  
1127 N. HAGADORN

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Model open 2-7 p.m. Daily and Sunday.

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Mrs. Lauch Res. 482-3379

ONE MONTH FREE rent. One girl. Waters Edge apartments. 351-5499. 3-1/31

NEED ONE, two, or three men now to take over lease ending June 15th. Luxury apartment in Waters Edge. Call 351-6894. 3-1/31

BICYCLE SALES, rentals and services. Also used. EAST LANSING CYCLE, 1215 E. Grand River. Call 332-8303. C

KENMORE CANISTER vacuum cleaner with all the cleaning attachments, six months old. \$20.00. OX 4-6031. C-2/2

BIRTHDAY CAKES: 7" - \$3.34, 8" - \$3.86, 9" - \$4.38 delivered. Also sheet cakes. Kwast bakeries, IV 4-1317. C-2/2

SKIN DIVING equipment for sale. OR 6-5660. 3-1/31

STUDY DESKS, small chests, roll-a-ways & bunkbeds. New and used mattresses--all sizes. Study lamps, typewriters, tape recorders, metal wardrobes, portable TV sets, large selection new & used electric fans. Everything for the home. WILCOX SECOND HAND STORE, 509 E. Michigan, Lansing, Phone IV 5-4391, 8-5:30 p.m. C

UNIVERSITY TERRACE apartment needs fourth girl for winter, spring, summer. \$55.00. 351-9307. 7-2/2

HOUSES

ACROSS FROM Kellogg Center. Two girls to share home. Furnished. \$51.00. Phone 351-7798. 5-1/31

TYPEWRITER - UNDERWOOD "Golden Touch" Excellent condition. \$75. Call ED 7-2057. 3-1/31

DIAPIER SERVICE, Lansing's finest. Your choice of three types. Containers furnished, no deposit. Baby clothes washed free. Try our Velasoft process. 25 years in Lansing. BY-LO DIAPIER SERVICE, 1010 E. Michigan IV 2-0421. C

STEREO SPEAKERS: H.H. Scott, save \$60.00 a pair. MAIN ELECTRONICS, 5558 South Pennsylvania, Lansing, 882-5055. C

STEREO SPEAKERS: H.H. Scott, save \$60.00 a pair. MAIN ELECTRONICS, 5558 South Pennsylvania, Lansing, 882-5055. C

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STereo SPEAKERS: H.H. Scott, save \$60.00 a pair. MAIN ELECTRONICS, 5558 South Pennsylvania, Lansing, 882-5055. C

PROFESSIONAL CARTOGRAPHER: experienced in the production of maps, References, St. John's, 224-4379. 10-1/27

PAULA ANN HAUGHEY, Typist IBM Selectric and Executive. Multilith Offset Printing. Professional theses typing. Near campus. 337-1527. C

# Age, retirement topics of seminar

By RON ROAT  
State News Staff Writer

What does a man do when he reaches 65?

Does retirement mean the end of a man's benefit to his society?

Michigan State and the Oliver Wendell Holmes Assn. have teamed up to attempt to provide some answers to these questions in a course entitled "Alternatives for 20th Century Man."

The MSU Evening College, under a grant from the Holmes Assn., has invited men from universities and the major professions to a two-week seminar. All those invited have either retired recently or will do so in the next five to ten years.

"The Oliver Wendell Holmes Association is interested in helping universities provide conferences and courses for the retired or for men that will soon retire," said Robert E. Sharer, director of MSU Evening College.

Sharer said that this seminar is an experiment by the Association. Other similar courses have been attempted in the past, but nothing like the MSU course has ever been offered.

"Universities across the coun-

try are watching us," Sharer said. "The interest in this sort of thing is growing and success here would be a boost for other universities."

MSU is bringing some of the top people in the country to speak at the seminar, Sharer said.

Kirtley F. Mather, professor emeritus in geology, Harvard University, and present president of the Holmes Assn., will give the keynote lecture entitled "Four Billion Years of Pre-History." He will also speak the second day of the conference on "Man and His Environment."

J.T.F. Iyalla, an ambassador to the United Nations from Nigeria, will speak on "One World?" the third day of the seminar.

Evening College is also inviting 13 MSU faculty to lecture at the seminar.

LeRoy Augenstein, chairman of the Biophysics Dept., will speak on "Genetic Dilemmas." Robert L. Green, Dept. of Counseling and Personnel Services, will talk on "Separate and Unequal." Werner A. Bohnstedt, professor emeritus, Dept. of Humanities, will give a talk entitled "Anomie, Anonymity, Alienation."

## Placement Bureau

Students must register in person at the Placement Bureau at least two days prior to the date of interview.

Monday, Feb. 6:

American Oil Co.: chemical engineering (B,M,D) and civil and mechanical engineering (B,M).

American Oil Co. and AMOCO Chemicals Corp.: chemical engineering (B,M,D) and chemistry (M,D).

Anaheim Union High School District: mathematics, science, art, English, music (vocal and instrumental) and special education (B,M).

Battle Creek Public Schools: early and later elementary education, art (special teacher), camp teachers (men-Clear Lake Camp), Special education, mentally retarded and nursery, physically handicapped, English, English/social studies and business education (shorthand and vocational stenography) (B,M).

Claremont Unified School District: elementary and secondary education (with academic majors) and special education (B,M).

Cutter-Hammer, Inc.: electrical and mechanical engineering (B).

Dow Corning Corp.: chemistry and chemical engineering (B,M,D), physics, chemical, mechanical and electrical engineering, accounting, marketing and economics (B,M).

Green Giant Corp.: accounting, economics, management, marketing and transportation administration and all majors of the colleges of Arts and Letters, Business, Communication Arts and Social Science (B,M).

Long Beach Unified School District: early and later elementary, outdoor education, mentally retarded, deaf and hard of hearing, educationally handicapped, emotionally disturbed, speech correction, industrial arts, mathematics and girl's physical education and reading (B,M).

Midland Public Schools: early and later elementary education, art, physical education, music (vocal), English/social studies, English, mathematics, science, French Spanish, German, history, government, economics, business education, industrial arts, mentally retarded, emotionally disturbed and visiting teacher (B,M).

Rowland School District: early and later elementary education, industrial arts, home economics, mathematics, mathematics/science, language arts, social science and art, music (vocal), language arts or social science (any two in combination, educable mentally retarded, educationally

handicapped, reading specialist, and nursing (RN) (B,M).

U.S. Civil Service Commission: all majors all colleges.

The Upjohn Co.: biology, zoology, physiology, pre-medical, pre-dental and chemistry (B,M).

Abbott Laboratories: chemistry and chemical engineering (B,M), pharmacology (D) and microbiology (B,M).

Eli Lilly and Co.: biochemistry and chemistry (analytical) (B,M,D), chemistry (organic) (B,M), microbiology (B,M,D), mechanical and electrical engineering (B), chemical engineering (B,M), marketing (M), pharmacology (M,D), plant pathology/physiology (B,M,D), accounting and financial administration (with accounting background), mathematics (B,M), entomologist, agricultural economics, animal husbandry, crop science, poultry science, soil science, horticulture (B,M,D).

Civil Service Commission of Canada: anthropology, geography, agriculture, human medicine, natural science and veterinary medicine (B,M,D) and all majors of the College of Engineering (M,D).

Swift and Co.: hotel, restaurant and institutional management (B,M), electrical, mechanical, civil and chemical engineering, chemistry, and mathematics (B), agricultural economics (B,M), animal science, agronomy, poultry science, dairy manufacturing and all majors of the colleges of Business, Arts and Letters, Communication Arts and Social Science (B) and economics (M).

Touche, Ross, Bailey and Smart: accounting, mathematics, and all majors of the College of Engineering and Science (B,M,D).

SUMMER EMPLOYMENT

Monday-Tuesday, Feb. 6-7:

Eli Lilly and Co.: juniors and above in biochemistry, chemistry, microbiology, mechanical, electrical and chemical engineering, marketing, pharmacology, plant pathology/physiology, accounting, financial administration, mathematics, entomologist, agricultural economics, animal husbandry, crop science, poultry science, soil science and horticulture.

Faculty Men's Club will meet at noon today in the Union, second floor, to make new plans for pensions. Don S. Willard will speak. Faculty wives are invited.

THE OUTING CLUB

Monday-Tuesday, Feb. 6-7:

Eli Lilly and Co.: juniors and above in biochemistry, chemistry, microbiology, mechanical, electrical and chemical engineering, marketing, pharmacology, plant pathology/physiology, accounting, financial administration, mathematics, entomologist, agricultural economics, animal husbandry, crop science, poultry science, soil science and horticulture.

Greek Week committee rush

will be held 7-9:30 tonight in Parlor A of the Union. For additional information contact Brad Miller, Delta Chi or Dianne Swartz, Kappa Delta.

Raimar Richers, an associate professor from the Sao Paulo Business School and currently a visiting professor of marketing, will speak on "Brazil: Social and Economic Contrasts of a

STATE NEWS CLASSIFIED ads may not chase winter chills or cure winter colds . . . . .

BUT, if you need something, or have something you don't need and would like to turn it into quick cash; then this mid-winter special is for you.



**When there's no man around . . .**

. . . at least the lady had a snow shovel she could use to rescue her car from a city parking lot on Albert Street.

State News photo by Larry Fritzlan

### Draft test given here

Selective Service College Qualification Tests will be given again this year at Michigan State during March and April.

The tests will be given on March 11 and April 8.

Eligible students who intend to take this test should obtain an application card and a bulletin of information for the test at 207 Student Services Building.

According to the Educational Testing Service, which prepares and administers the College Qualification Tests for the Selective Service System, it will be greatly to the student's advantage to file his application as soon as possible. By registering early, he stands a better chance of getting his first choice of a test site and date.

Scores will be sent directly to the registrant's local board and will be taken into account on his classification.

Outsiders viewing lower income families may draw an erroneous conclusion about them.

**it's what's happening**

Announcements must be received before 11 a.m. the day before publication.

The Baptist Student Fellowship will meet at 7:30 tonight in the Baptist Student Center, 332 Oak Hill Ave. Herbert Jackson will speak on "Religious Symbolism in Asia."

The Outing Club will meet at 7 tonight in 140 Natural Science. Robert Fleming, graduate student in zoology, will speak on hiking in the Himalayas.

Campus 4-H will present a panel discussion on "Youth Creed of Michigan" at 7:30 tonight in 117 Agriculture Hall. Panel members will be representatives of the Youth Advisory Council.

Faculty Men's Club will meet at noon today in the Union, second floor, to make new plans for pensions. Don S. Willard will speak. Faculty wives are invited.

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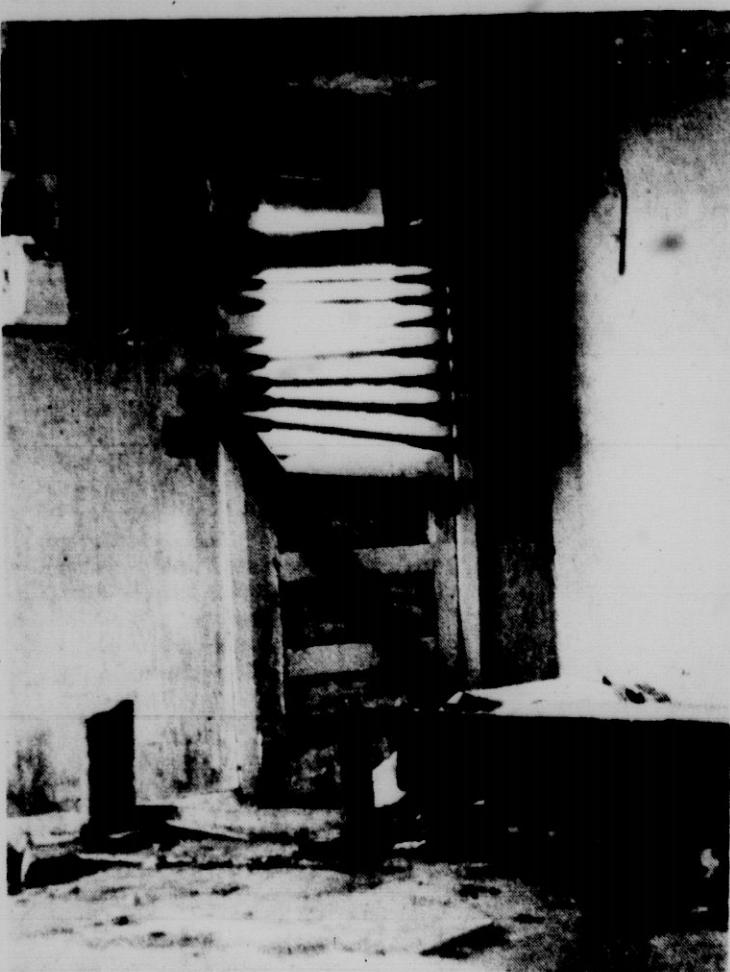
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**STATE NEWS**



### Renovations on the way

Left and above are two of the five houses in Lansing that MSU fraternity men and sorority women will work on in their annual community service project in May. The houses are located near I-96 highway. State News photos by Paul Schleif

## FINANCIAL, POLITICAL EFFECTS

### Econ prof., Staebler debate war

By KURT HAHN

Neil Staebler, Democratic national committeeman, and Walter Adams, MSU professor of economics, gave some answers to the question "What is the war doing to us in the domestic socio-economic world?" Sunday evening.

Staebler said that money spent on foreign aid in the past might have prevented the Vietnamese war and money spent now might prevent future problems of a similar nature.

Adams presented the argument that the funds being poured into Vietnam might be better spent in this country.

The men spoke at the fourth session of the Interfaith Convocation on War and Peace at St. John's Student Center.

Staebler began his talk by giving figures designed to give an idea of just what the war is costing. He said:

--The current yearly cost of the war is \$25 billion.

--The current total defense budget is \$73 billion.

--The Gross National Product is \$785 billion.

--Federal education spending is \$3 billion yearly.

"We are spending nearly 10 per cent of our GNP for defense and over three per cent of the GNP on Vietnam alone," Staebler said.

"It's easy to see that we spend whatever is necessary on defense but are more reluctant to spend for domestic improvements."

We have spent an amount almost as large as the dollar value of the entire country on defense since 1946. By spending much less on welfare and education, we have reduced poverty by nearly 75 per cent since 1930, he continued.

We might do better to help underdeveloped nations develop capital for improvement through increased foreign aid, than to continue our increasingly ex-

pensive defense costs, Staebler stated.

"Lack of foresight is what makes these huge defense costs necessary. If we increase aid and solve problems before they lead to conflict, we will be far better off," Staebler said.

Adams, as the respondent, approached the problem from the pragmatic point of view of the economist.

"I am not a pacifist; I am not

a moralist; I am an economist; and as such I will present to you the cost of the war and what that represents in terms of alternative accomplishments," he began.

Economics is the study of scarcity. It shows what alternatives exist, not what choices should be made, he explained.

We cannot have both the war on poverty and the shooting war in Vietnam without either a tax increase or inflation, Adams said.

With the money we are spending in Vietnam we could give every teacher in this country a 10 per cent raise; we could give \$10 million to 200 small colleges and universities; or we could revamp our medical education program, which is producing fewer doctors each year, Adams said.

"There is a high price we pay for being a garrison state," Adams pointed out.

The longer the war lasts, the stronger will be the growth of right wing extremists, he said.

### Classroom changes

Tuesday classes whose meeting places have changes due to Farmers' Week activities are, with their meeting times and new locations:

AGRICULTURE

ANS 525-901 11:30 TUE P

FSC 405-1 10:20 136 EBB

SLS 56-1 & SLS 331-1 11:30 110 BH

Dairy 00e 1-4 1:50 223 NR

ARTS & LETTERS

ENG 380-901 10:20 Fairchild Theater

ENG 816-1 10:20 108 EH

HST 101 1-15 9:10 AUD MB

HST 121 1-30 9:10 Fairchild Theater

HST 122 16-30 11:30 137 AKR

HST 334-1 10:20 137 AKR NATURAL SCIENCES

ROM 351-1 10:20 29 HUB GLG 201 1-5 11:30 102 CB

BUSINESS MTH 215-5 11:30 219 BH

AFA 301-1 12:40 122 BH MTH 341-1 11:30 212 CC

EC 200-1 1:50 100 VC STT 121-901 11:30 100 VC

EC 200-2 11:30 AUD CRD SOCIAL SCIENCES

PLS 201 1-301 11:30 101 NKH

PLS 260 1-6 10:20 128 NS

EC 200-3 9:10 111 OH SOC 241-2 9:10 137 FEE

EC 201-1 10:20 AUD MB SOC 351-2 11:30 105 HLM

EC 305-2 12:40 226 EH PSY 200-2 12:40 AUD

EC 320-1 10:20 19 FB WIL

MTA 300-90 12:40 Fairchild Theater COMMUNICATIONS

JRN 430-1 10:20 216 GH UNIVERSITY COLLEGE

ATL 111-16 12:40 115 EBH

ATL 112-2 11:30 226 EH

ED 312-2 10:20 132 EH SS 232-27 10:20 102 MCD

ED 327-901 1:50 114 EBH SS 232-48 1:50 102 CEB

### LISTEN TO THIS!

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I can save up to 50%  
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Join Those Who Expect More . . . And Save

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### Greeks plan community aid

Planning begins tonight in the Union for this year's community project for Greek Week.

Open rush will be held for the May event for the more than 5,000 Greeks at MSU. At least 800 volunteers are needed for the project by the Martin de Porres Housing Committee, a non-profit Lansing corporation.

Greeks will be able to petition tonight to work on the Bumfie, Wyandotte junior; Dave McGraw, Bloomfield Hills junior; and Al

Rose, Rochester, N.Y., sophomore.

Already planned is the painting of five houses presently leased by the committee. Most of the dwellings house two families each and one houses a family of 14 children.

Volunteers last year converted unused nurses' quarters at the Howell State Hospital for the Mentally Retarded into a day-care center for children.

About 250 Greeks representing 37 houses participated in the

project. Rotating groups went to the hospital located 40 miles southeast of Lansing to provide a playroom for the 374 mentally disturbed children.

### City resumes mail service after snowfall

East Lansing continued to recover from the weekend's 24-inch snowfall Monday with some new problems cropping up.

"Our biggest problem now is sightseers driving around and congesting the streets," reported John Patriarche, East Lansing city manager.

He added that many cars are still abandoned in the snow and cars that were rescued and are now parked along the main streets also cause problems for the snow removal crews.

"We haven't started ticketing yet but we may have to," said Patriarche.

Mall delivery ran up to five hours late Monday with East Complex receiving its usual 9:30-10 a.m. mail at 2:30 p.m. Men from Brody complex met the mail truck at noon and brought the 4-hour late letters in themselves. All other dormitory groups got mail about an hour off schedule.

"We're making every effort to deliver the mail as soon as possible," said A. Ray Krider, East Lansing postmaster. "When the roads are all clear, we should be back to normal."

Krider added that only a few trucks were in use and most of downtown East Lansing's mail was delivered by foot carriers.

**GRANDMA'S Famous Recipe Fried Chicken TAKE - HOME Chicken . Shrimp . Fish OPEN 7 DAYS A WEEK 1900 E. Kalamazoo Phone: 484-4471**

### Let's talk eyeball to eyeball

you us

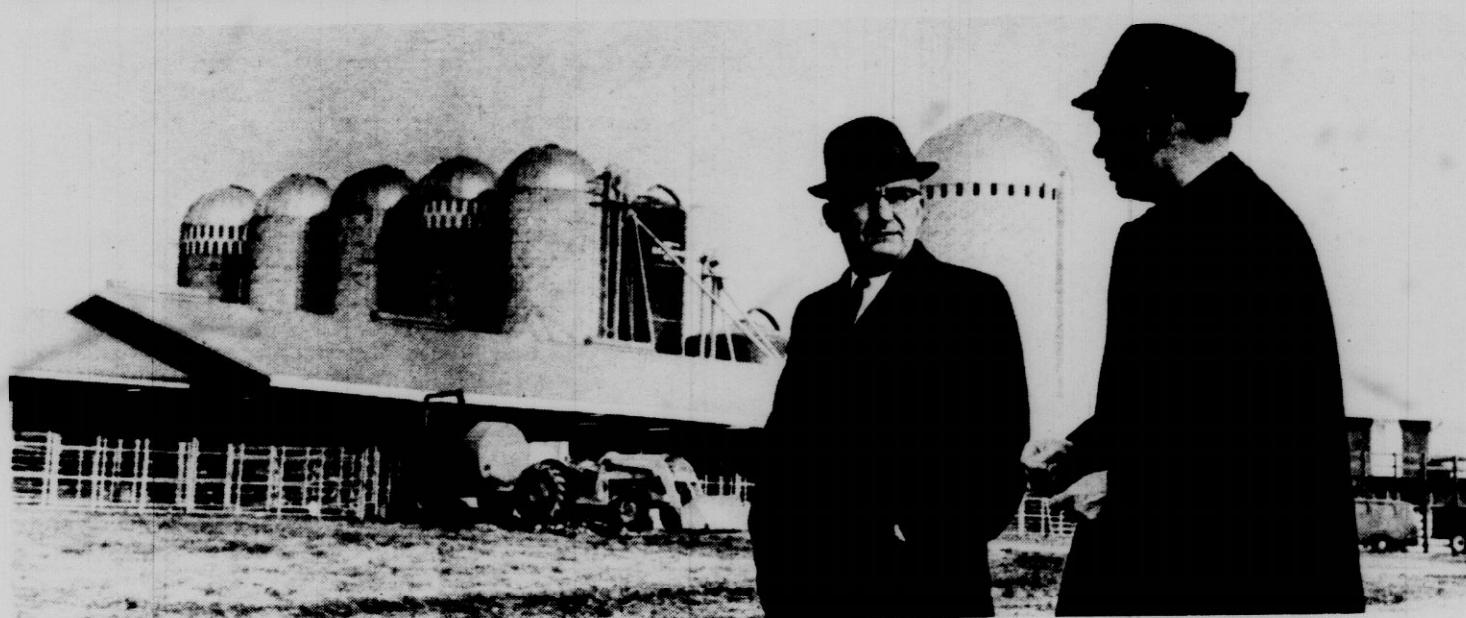
Eyeball to eyeball is the only way to talk about the career you want and the opportunities we can offer in mechanical, chemical, electrical and industrial engineering; also in chemistry and food technology. Make a date now to see the Standard Brands representative. Campus Interviews:

February 3,



STANDARD BRANDS INCORPORATED

# Farmers' Week 1967



## Principals in programs

The two leading figures in the 52nd Annual Farmers' Week are shown checking one of the principal locations for programs this week, the Beef Cattle Research Center at Bennett and Beau-

mont roads. They are Thomas K. Cowden, dean of the College of Agriculture and Natural Resources, and Byron Good, professor of animal husbandry and Farmers' Week chairman. Photo by Dave Laura

## TIMELY THEME

# 'Food for a Hungry World'

Farmer's Week helps emphasize the increasing need to realize the world food problem and the need for a concrete plan to solve this problem, which is rapidly approaching crisis proportions.

This year's theme, "Food for a Hungry World," is an indication of growing concern over the production of sufficient food to supply the rapidly growing world population.

"The world population is at present growing at a rate of 65 million people annually. This means that a number almost equal to the population of the entire United States is added each third year," said Georg Borgstrom, professor of food science at MSU in his book, "The Hungry Planet."

"Furthermore, the battle against death has been advanced victoriously in all areas of the world, including the underdeveloped part," he said.

Borgstrom said that the world is actually split into two camps, one with a billion people who lack very little in the realm of foodstuffs and the other composed of two billion people who are undernourished.

"The protein intake, be it plant or animal, remains the most reliable way of measuring nutritional standard," he said.

"The proteins are the key compounds. It is more than coincidence that during recent decades, protein deficiency diseases have come to prevail in most continents and must be regarded as the chief nutritional deficiency of the world," says Borgstrom.

He said that the United States alone disposes as much primary protein (plant protein) as a number of poor countries like India, China, Indonesia and Ceylon, taken together, have to be satisfied with.

Borgstrom said that the food shortage problem must be put

in context with the population explosion.

He said, "There is now growing evidence of better understanding of the need for universal birth control."

"Planned parenthood on a global scale that really reaches billions is a formidable challenge to public education and mass media," he said.

Some chemists claim their research in synthetic food production will ultimately free humanity from the scourge of hunger.

Borgstrom in disagreeing said, "It is certainly not sufficient to be able to synthesize certain essential substances. They must also be given the special molecular structure which allows them to function in the complicated metabolism of the body."

Contrasting with Borgstrom's pessimistic view point are various scientific programs desperately seeking a solution to the

problem of world food production.

The areas of research and planning include the study of fertilizers, soil, and plant food for future application.

"Of the various technical factors, increased use of fertilizer offers the best possibilities for a quick increase in agricultural production," said Raymond Ewell, vice president for research at the State University of New York at Buffalo.

After an experiment including 9,500 demonstrations in 14 countries Ewell said, "There can be no manner of doubt that when farmers in developing countries use fertilizers, even without other improved farming methods the results will be good. The average response to the best, most economic, treatments for all countries, crops, and seasons was a 74 per cent increase in yield."

MSU has also done substantial work in the area of food production research. New food products are "quick" blue cheese, "instant" pea and bean soup, improved meats, and new varieties of fruit.

The soups, made from powdered peas and beans become substantial foods by merely adding water. They offer possibilities as low cost additions to the diets of several underdeveloped countries.

Another area of MSU research is the problem of pests and pesticides. MSU has created a Pesticide Research Center for such research.

There are many other programs in addition to these mentioned. All are working toward solution to the crisis which faces the world in decades to follow.

MSU plays a prominent role in today's agriculture—in planning for the national and world needs of the present and the future.

## 'U' Farmers' Week boasts long, colorful background

This year's Farmers' Week, the 52nd, extends a colorful and rapid development.

The week's foundation was laid out in 1873-76 with the new Michigan Livestock Breeders and Feeders Assn. and with the Michigan Agricultural College's (MAC) Farmers' Institutes.

Farmers' Institutes were held by MAC in 1876 in a few selected Michigan counties to discuss agricultural problems. In 1895-96 over 70 institutes were held around the state with 96,000 farmers and wives attending.

MAC played host to a Farmers' Institute Roundup, in 1898 at the college with persons from 47 counties attending. Gov. Pin-

gree, state officials, Robert Gibbons, editor of the Michigan Farmer, and outstanding farmers gave more than 40 talks on farm and home topics.

In 1906 the Michigan Livestock Breeders and Feeders Assn. held its annual meeting at MAC.

In 1914 the Farmers' Institute Roundup and the Michigan Livestock Breeders and Feeders Assn. combined their annual meetings to form the first Farmers' Week.

Participants attended lectures in soils, crops, dairying, livestock husbandry, horticulture, poultry raising, farm mechanics, domestic science and domestic art.

The first Farmers' Week meetings were held in the auditorium of Agriculture Hall. In the 1920's Demonstration Hall was used for improvement displays and exhibits. Since then Farmers' Week activities have moved to every area of the campus.

The methods of presentation of agricultural information at Farmers' Week have changed considerably since 1914. There were movies in 1917, TV in 1952 and electronic computers in 1963.

The topics of Farmers' Week programs have changed also. The latest include atomic energy, automation, computer use and international forums.

**Every day  
busy one  
for visitors**

Everyday is busy for Michigan farmers attending MSU Farmers' Week. The farmers and agribusiness leaders of Michigan will base discussion of their problems and challenges on the theme of "Food For A Hungry World."

Programs are scheduled for all types of farming and special youth and women's events are also planned, all under the direction of General Chairman Byron Good.

Monday, Traditional Dairy Day, will open the week with breed association meetings and a dairy banquet. "Dairy Research in Action" will be shown at the research and teaching dairy center.

Tuesday will feature a luncheon in connection with sugar beet day at the Kellogg Center where distinguished service to agriculture awards will be presented to Frank Heim, Jackson dairyman; O.E. Herkner, Traverse City fruit grower; and R.W. Peterson, Lakeview dairyman and potato grower.

Morning and afternoon sessions will be held by all major departments including homemakers' and youth programs; engineering for modern agriculture; beef cattle breed association; sugar beet day; fresh market vegetable production; Christmas tree growing; egg producers' session; open, covered or warm dairy housing; estate planning and retirement and insect problems. There will be a Michigan tree growers banquet in the evening.

Wednesday the public is invited to attend John Furbay's special evening lecture concert, "The Sky's the Limit." During the day there will be more sessions by all the major departments including growing quality fruit; water use and supply; group action in milk marketing; top yields of soybeans and small grain; shooting pressure management; lookout for labor; profit with sheep; growing top yields of corn silage and mushroom production.

Michigan professional dairy farmers, Michigan milk farmers and the state 4-H Council will hold luncheons. Banquets will be held for short course alumni; agricultural engineering, mushroom industry and Michigan Allied Poultry Industry, Inc.

Thursday, The Farm Management Banquet at Kellogg Center will feature special guest speaker Paul Miller, former director of the MSU Extension Service, president of West Virginia University and now assistant secretary of Health, Education and Welfare in Washington D.C.

The day's events will include a flower show; tour of the Packaging School; dollars and sense in dairy nutrition; the swine enterprise; field bean day; po-

(continued on page 8)

# New Poultry Center set for visits

Progress is the watchword at the new 11-building Poultry Science Research and Teaching Center on the MSU campus. Opened last June, the \$400,000 research center is perhaps the finest facility for poultry research and teaching in the country.

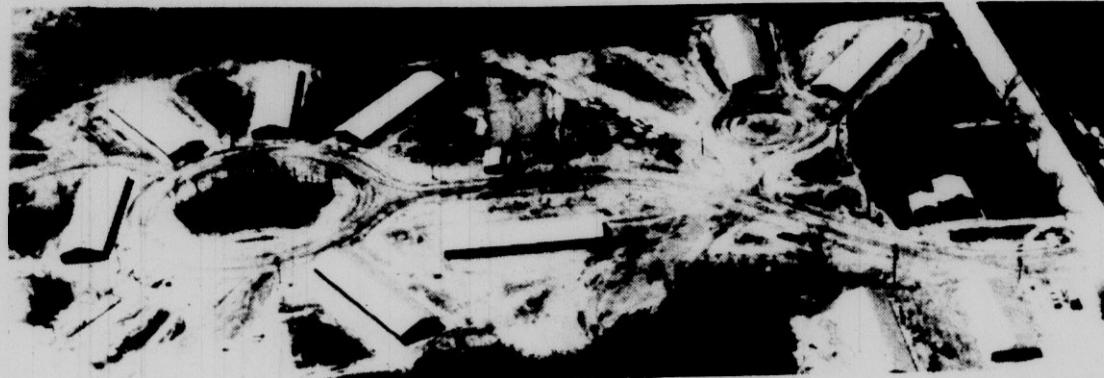
The new center will be the site for all poultry educational programs in connection with Farmers' Week. The topic of discussion in the classes will range from present research programs to methods of lowering costs. Also, some insight to the future of the Michigan poultry industry will be given.

The buildings are designed for versatility and economy. They are usable for research with ducks, mink, quail, turkeys and laying hens while being a poultryman's guide to low-cost housing. Research control requirements call for a few extras in construction but the farmer could get by with less.

All of the over 10,000 birds at the research center will spend their entire lives indoors. This will eliminate theft, disease spread and unevenness in test birds. Also the insulated and ventilated buildings pay in increased production.

The center is researching many areas of poultry problems. In the area of nutrition food-stuffs, amino acids and drugs are being tested to increase production. Experiments in physiology are concerned with fertility, high blood pressure and housing and management. Here it was found turkey meat production increases if turkeys are raised in cages.

Experimentation in genetics is bringing breakthroughs in decreasing egg spots, increasing egg production, increasing the size of the eggs, lengthening poultry life span and increasing meat production. The Japanese quail on the farm are par-



## New attraction

An attraction involved in Farmers' Week activities for the first time this week is the new \$400,000 Poultry Research and Teaching Center. The complex of nine windowless buildings was dedicated in June.

ticularly useful in genetic studies. These birds have a short regeneration period, reproducing only 60 days after birth.

Experiments in insecticides are also in process at the re-

search center. At present, the major project is the investigation of the fatty liver syndrome in turkeys. Fat infiltrates the liver causing it to rupture. As a result the bird dies from internal bleeding. Research in the fatty liver syn-

drome has a dual importance in that it is a human problem too.

A breakthrough of great significance at the research center has to do with the controlling of aortic rupture in turkeys. This condition due to high blood pressure is solved by the use of tranquilizer treated feed. Discoveries in housing and nutrition have shown that ventilation pays in increased production and have shown the zinc and manganese requirements of the birds.

The future looks very bright for the Michigan poultry industry. Today the state produces only 50 per cent of the eggs, half the turkeys and only one per cent of the broilers it consumes. By 1980 it is expected Michigan will produce 75 per cent of the eggs it consumes plus increased percentages in the other fields.

## Two additions underway on plant lab

Two new additions to the \$2.7 million Plant Science Laboratory, which houses the Atomic Energy Commission and the Plant Research Laboratory, are underway.

An addition to the Plant Research Laboratory will contain research facilities to enable studies to be carried on from basic plant research to applied phases of plant pathology, according to Donald J. De Zeeuw, assistant chairman of the Botany and Plant Pathology Dept. The wing will be under construction in the near future.

The botany and plant pathology teaching facilities, another addition to the laboratory, is currently under construction. The College of Human Medicine will use the facilities temporarily, pending completion of the Life Sciences Building.

De Zeeuw said that the two additions will make it possible for the department to be close to the greenhouses, where much of the research is done. He added that the greenhouses are now a quarter of a mile away. Improved equipment will also aid in refining research.

The additions will join the present structure which includes modern biochemical research laboratories, a greenhouse, a 4,000-Curie cobalt-60 source for radiation plants, plant growth chambers, and a wide range of electronic gear.

Although no open house will be held for the farmers during Farmers' Week, De Zeeuw said that the department will sponsor an exhibit on mushroom production in the Spartan Stadium Concourse.

**CONGRATULATIONS  
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To Agricultural Progress**

**52nd Anniversary  
Farmers Week**

**Monday, January 30th thru Friday, February 3rd**

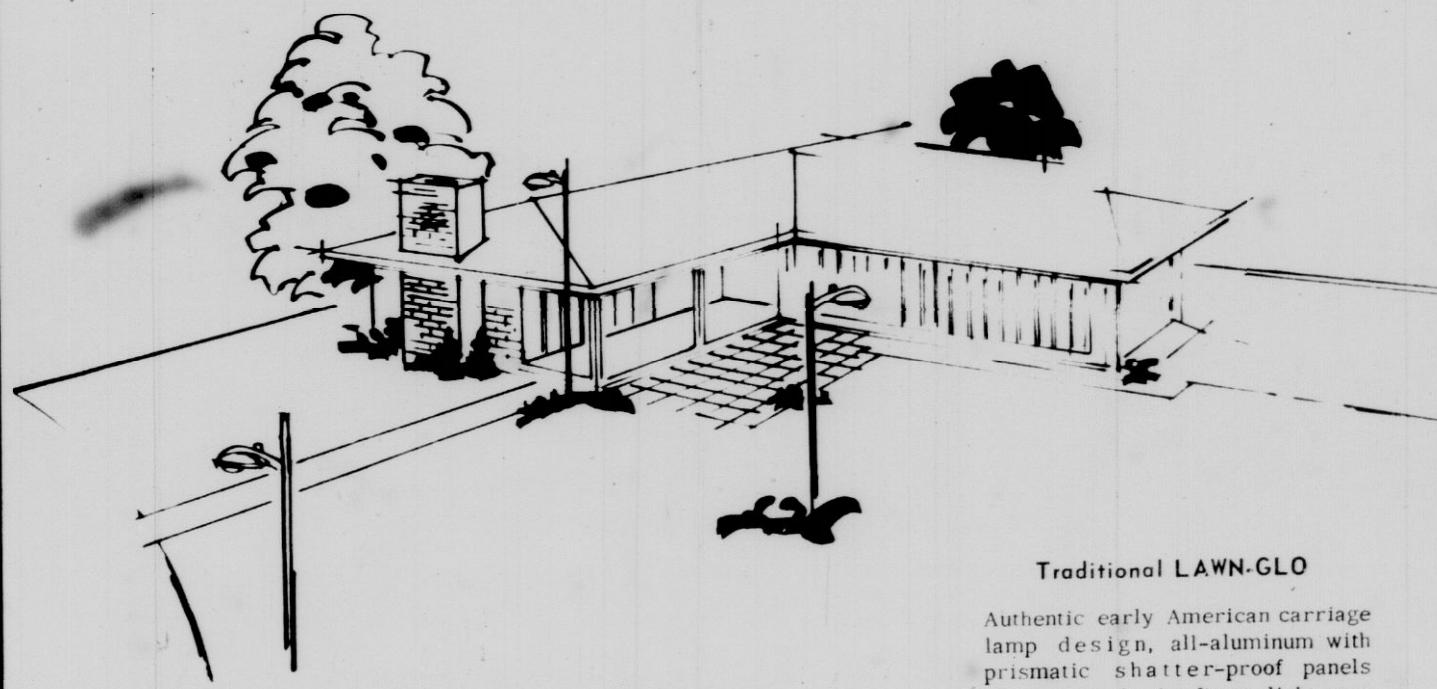


Beloit, Wisconsin

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DIVISION OF ECONOMICS LABORATORY, INC.

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Line Material, long a leader in styled outdoor lighting, offers a complete line of dusk-to-dawn units for farm, residential and commercial applications. These units provide soft, low-level illumination and have an optical system which almost completely eliminates bothersome glare. Light is directed out and down where it is needed.

These luminaires were constructed to provide long service, eliminating replacement costs. Weatherproof construction and easy access for cleaning and relamping are additional features. All are available with photo-controls for automatic "on" - "off" light. Authorized L-M/Michigan distributors listed to the right will be glad to provide technical data, lighting application data, or any other service relevant to installation. Call your nearest distributor soon - you'll be glad you did.

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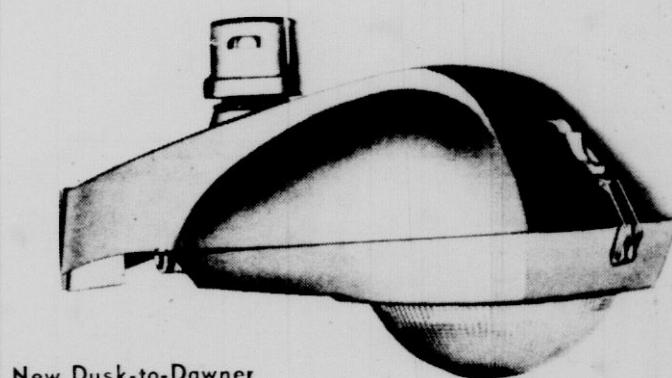
### LINE MATERIAL INDUSTRIES

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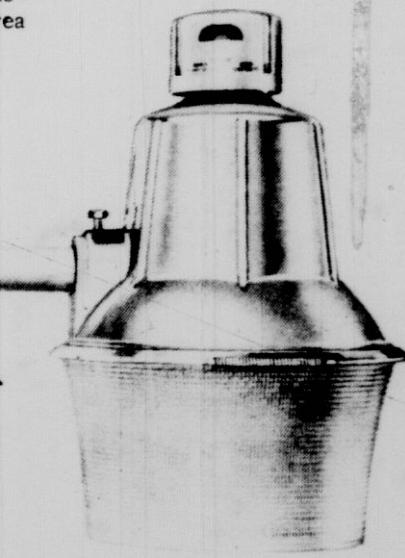
#### Traditional LAWN-GLO

Authentic early American carriage lamp design, all-aluminum with prismatic shatter-proof panels which provide the finest light control. It is available in black and gold, and white and gold with a 100-watt lamp. Here, truly, is elegance in outdoor lighting.



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Mid-State Electric Supply Company  
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NACO Corona Agricultural Chemicals are here as well as a complete line of all farm chemicals for your crop needs.

W.R.



AGRICULTURAL PRODUCTS DIVISION

Lansing, Michigan

# Scientists to help growers increase crop profits

MSU crop and soil scientists will tell growers from throughout the state how to get the most out of their acreage at this year's Farmers' Week.

Specialists will outline the results of the latest crop and soil research and tell what it means to Michigan agriculture and individual farmers.

Growers will also hear about the profit and production outlook for 1967.

The first session Tuesday will deal with sugar beets.

Ernest Flegenheimer, president of the Michigan Sugar Co. of Saginaw will outline the national and international sugar situation and tell how it relates to Michigan growers.

The field bean program Thursday will center around a progress report on the bean breeding program and the new MSU developed light red kidney bean.

The new kidney bean, developed by M. Wayne Adams, professor of crop science, and by Axel Anderson, a former MSU plant pathologist, is resistant to anthracnose, a fungus common to the kidney bean.

According to Adams it has a

more attractive seed, is plumper and has a nicer color.

Also scheduled are talks on how supply and demand works in setting the price for the bean crop by Howard Hirth, Campbell Soup Co. and J. Stanley Sherman, general manager of the Michigan Elevator Exchange, Lansing.

A report of the activities and plans of the Michigan Bean Commission will be presented by Maynard Brownlee, secretary-manager of the Michigan Bean Commission.

The potato-growers' session, also on Thursday, will include a discussion of the use of asphalt in crop production by C.M. Hansen, associate professor of agricultural engineering.

MSU has developed a machine which can place a thin layer of moisture-barrier asphalt beneath the soil surface.

A film on the Michigan potato industry will be followed by discussions of potato planting practices by J.L. Crosby, Montcalm County Extension agricultural agent, and R.W. Chase, assistant professor of crop science.

The Wednesday morning session will be aimed at helping growers produce top yields of soybeans and small grains.

The soybean programs include soil management practices by Boyd G. Ellis, associate professor of soil science; weed con-

trol by William F. Meggitt, professor of crop science, and variety, planting date, rate and row spacing by Stuart C. Hildebrand, assistant professor of crop science.

Included in the program for better production practices of small grains are soil management practices by E.C. Doll, associate professor of soil science; cultural practices for wheat by M.H. Erdmann, professor of crop science, and cultural practices for oats and barley by John E. Graefius, professor of crop science.

The current status of the cereal leaf beetle infestation will be discussed by R.L. Jones, professor of entomology.

Wednesday afternoon, talks will center around methods of increasing corn silage yields. Establishing feasible yield goals and the methods of attaining them will be presented by E.C. Rossman, professor of crop science.

The Wednesday afternoon corn silage programs also include fertilization and tillage practices for efficient corn silage production by James A. Porter, associate professor of soil science and the influence of changing price relations of profits in irrigating corn by C.R. Hoglund, professor of agricultural economics.

Problems in potato disease identification will be presented by W.J. Hooker, professor of botany and plant pathology.

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10 or 17-day Hawaii holiday from West Coast...from \$319

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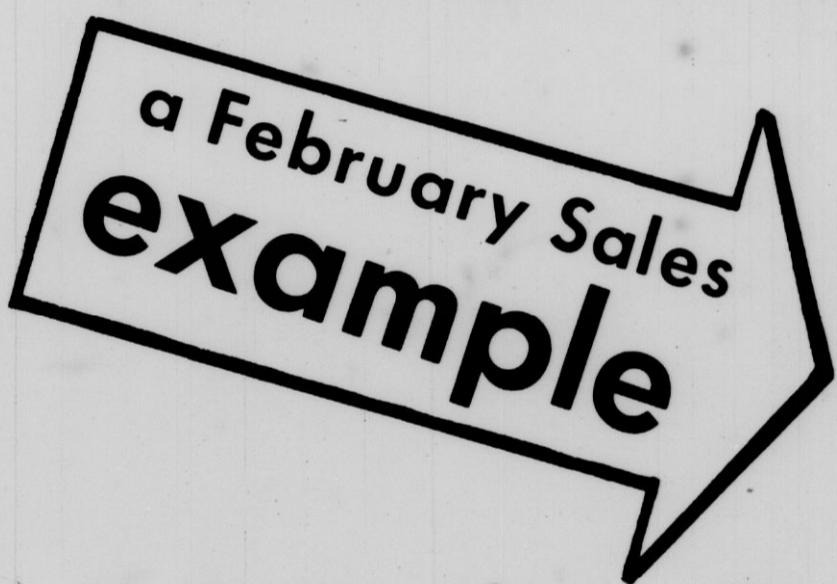
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**automatic perk**

**\$457**

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**SHOP MONDAY .. THURSDAY .. FRIDAY 'TIL 9 P.M.**

# 3 farm leaders to receive citations

MSU will honor three Michigan farm leaders for "Distinguished Service to Agriculture" at the Tuesday Farmers' Week Program.

The men who will receive the citations are Frank Heim, of Jackson, O.E. Herkner of Traverse City and R.W. Petersen of Lakeview.

The awards will be presented by T. K. Cowden, dean of the College of Agriculture and Natural Resources.

Sylvan H. Wittwer, director of MSU's Agricultural Experiment Station, will speak at the program on "Advances in Agricultural Research."

Heim is a dairyman who served for many years as president of the Michigan Animal Breeders' Cooperative. He has been a member of the Michigan Extension Advisory Council for the past 10 years and currently serves on the executive committee of the state Agricultural Council for the Extension Service.

He has also been active in the Michigan Agricultural Conference.

ence and has received the MSU Dairymen of the Year award.

Herkner has been identified with the state's cherry industry for many years. A progressive fruit grower, who is quick to adopt new production practices, he is a past chairman of the Michigan Cherry Commission.

Herkner has also served as president of the Michigan Assn. of Cherry Producers, National Red Cherry Institute and National Cherry Growers' Council.

Petersen, long active in soil conservation circles, is a former president of the Michigan Assn. of Soil Conservation Districts and the National Council of SCD's.

He currently operates a 500-acre dairy farm near Lakeview and for 19 years was a successful farm equipment dealer in his community. He also grows potatoes commercially.

This is the 14th year MSU has honored men who have made singular contributions to Michigan's agricultural progress.



O. E. HERKNER



FRANK HEIM



R. W. PETERSEN

## Youth programs two days

Mrs. George Romney and Lt. Gov. William G. Milliken will

be the speakers for the Youth Day Program of Farmers' Week Tuesday and Thursday for Michigan high school students.

Speaking at the general session "Opportunities Unlimited" on "Citizen Responsibility and Opportunity," Milliken will speak Tuesday and Mrs. Romney, Thursday. Entertainment will be provided by the Ray Ricker Quartet. The program will be broadcast live over WKAR radio.

Dale Nye, Stevensville freshman and state president of FFA, will introduce the speakers.

"Opportunities for You" will involve 21 different career areas offered to the students to provide information on employment opportunities and education requirements. The duplicate pro-

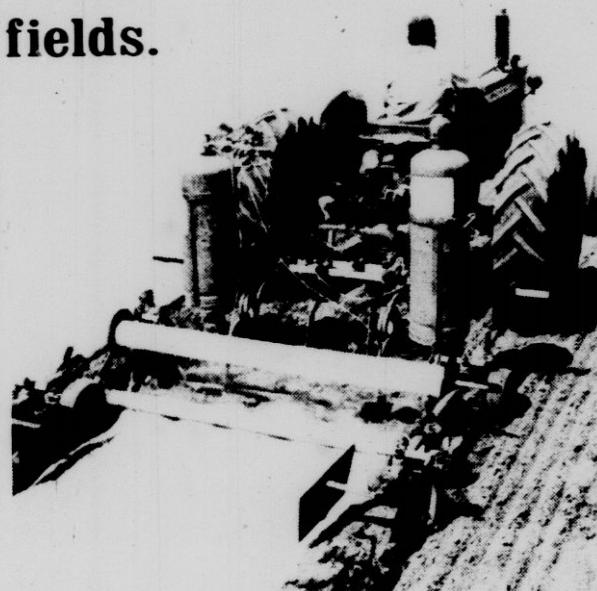
grams will start at 11:10 a.m. Tuesday and Thursday.

Information will be provided by MSU faculty members with the assistance of professionals in the specific areas. Some of the careers offered include agricultural industry, art, communications, nursing, teaching, social work, medical technology and engineering. Open discussions will follow the general information session.

A panel discussion on "College in Your Future" will be held at 1:15 p.m. in Erickson Kiva for high school students continuing their education and parents desiring post-high school information.

Members of the panel will be (continued on page 15)

**Everything's dead quiet  
after this tarp goes  
down in straw-  
berry  
fields.**



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NO WEEDS  
NO NEMATODES  
NO DISEASE

# Farm wives to get laundry tips

Current laundry developments will headline the Farmers' Week homemakers program Tuesday and Wednesday.

Information on proper usage of today's machinery, detergents, bleaches and fabric softners will be exhibited at 113 Agricultural Engineering. Cut-away models of various appliances designed to show their operation will be featured.

Miss Mary E. Huck, director of Home Economics for Frigidaire

will discuss "Up-To-Date Methods in Home Laundering" at 10 a.m. Tuesday morning in Shaw Terrace Lounge. Miss Huck will emphasize current laundry questions such as handling of garments with durable press finishes, laundry care for other new fabrics, use and features of new laundry equipment and what practices a homemaker can use to contribute to good laundry.

Miss Huck has a broad back-

ground in home service work. She has been honored by organizations in Columbus, Ohio, McCall's Magazine and Ohio State University for her outstanding contributions to improved living standards. She is currently listed in the "Who's Who of American Women."

"Choosing and Using Laundry Equipment" will be discussed by Helen Van Zante, author of "Household Equipment Principles", at 1 p.m. Wednesday in

Agricultural Engineering Building Auditorium.

Mrs. Van Zante, an associate professor in the Department of Household Equipment of Iowa State University, will also speak on "Choosing and Using Dishwashers and Garbage Disposers" at 3:15 Wednesday. She is a member of the American Home Economics Assn.

Garnette Veld, home economist with Proctor and Gamble Co., will speak about "Choosing and

Using Detergents and Other Laundry Aids" at 1:45 Wednesday at the Agricultural Engineering building Auditorium and 10 Thursday in the Shaw Terrace Lounge.

Miss Veld, a 1964 MSU graduate, received her Masters Degree in 1965 from the University of Wisconsin before going to Proctor and Gamble. She is a member of the American Home Economic Assn. and Home Economists in Business.

## Welcome Michigan Farmers

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# Planning events takes year

Preparation for Farmers' Week is a year-long process that is under the direction of Byron Good, chairman of Farmers' Week since 1959.

Good came to MSU in 1941 after he had earned his master of science degree from Ohio State University. He is a professor of animal husbandry and has been manager of the University Farms since 1950.

Preparation for Farmers' Week is an immense job. According to Good, 25,000 to 30,000 visitors are expected at the 52nd annual Farmers' Week programs this week.

Farmers' Week occupies the time of many people, but much of the responsibility is in the hands of Good and his secretary Mrs. Jean Peterson. It is Mrs. Peterson's job to check out many of the details involved with the week.

Numerous meetings during Farmers' Week cause many conflicts concerning the rooms available for meetings. Classes that regularly meet in a certain room sometimes have to be changed to other room locations.

Rooms must be cleared for the sessions in Anthony Hall, Agricultural Engineering Building, Engineering Building, the Auditorium, the Union, and Kellogg Center.

log Center. Mrs. Peterson has the task of making these changes known to the students, doing so via the State News.

In planning for Farmers' Week many problems must be overcome. Parking for the thousands of visitors must be provided. Exhibits must be set up in the Spartan Stadium concourse. Banquet reservations and the distribution of approximately 30,000 programs are all important problems.

Much of the work done for Farmers' Week is done by the individual departments. It is Good's job to coordinate all those efforts into a successful week.

Representatives from 17 states and Canada are expected this week and 184 authorities from off campus are going to participate in the activities.



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## CONCERN TO FARMERS

# Water usage problems topic of talks, exhibits

Americans today use 10 times as much water as they did 25 years ago, but this great change goes almost unnoticed.

Water is one of the most taken for granted utilities by Americans today. Yet water cannot be taken for granted by the many rural families who live outside the public water supply.

Thus, one of the most important features of the 1967 Farmers' Week program is a series of talks and an exhibit concerning the ever increasing usage of water and the attendant problems.

The focal point of the presentation will be an exhibit showing a complete cycle of water and its uses.

As a parallel to this exhibit, a series of talks Wednesday in the Agricultural Engineering Building Auditorium will examine the various uses of water today.

The program will begin at 10 a.m. with Truman Surbrook, instructor of agricultural engineering at MSU, who will discuss farm and home water needs.

At 10:30, George H. Klum will examine water softening, chlorination and iron removal. Klum is the director of the Culligan Water Institute from Northbrook, Ill.

Completing the morning series will be Norman Paspdorf, chief of the Labor Camp Unit of the Michigan Dept. of Public Health, and Kenneth VanPatten, director of the Dairy Division of the Michigan Dept. of Agriculture. Paspdorf will discuss domestic water system regulation and VanPatten will examine dairy farm and migrant housing water system regulation. Their presentations will begin at 11:25.

The afternoon talks will coordinate water supply with helpful advice on home water equipment.

The first topic will be the choice and usage of laundry equipment given at 1 by Helen VanZante, associate professor in the Household Equipment Dept. at Iowa State University in Ames, Iowa.

She will continue at 1:45 with advice in choosing and using

## New Angus addition to 'U' herd

A new Angus bull was added to the MSU herd sire battery in December. He is Homanor Bardoliermere 1564, bred by and purchased from Old Home Manor, Homer City, Penn.

Hoss, as he is called because of his great size, was born on May 2, 1964. He is undoubtedly one of the largest bulls for his age in the Angus breed, presently weighing 2,100 lbs.

Plans are being made to mate Hoss to 50 Angus cows in order to more accurately evaluate his genetic ability. It is hoped he will transmit his extra ruggedness and growing ability to his progeny.

This new addition to the Angus herd may be seen at the purebred beef barn south of the campus on Bennett Road.

dishwashers and garbage disposers.

Next the choice and usage of detergents and other laundry aids will be discussed by Garnet Veld, a home economist from Procter and Gamble Co. of Cincinnati. This talk will be presented at 2:30 and repeated at 10 a.m. Thursday.

An "Ask the Professor" booth will be available to answer any specific questions. The booth will feature Carlton Edwards, chairman of the water program and associate professor of Agricultural Engineering at MSU, and Anne Field, extension specialist

and instructor of home management.

Both the question and answer booth and the water exhibit will be located in the research laboratory of the Agricultural Engineering Building.

The exhibit will be coordinated to show a home or farm water system from well casing to the disposal field. Pitless adapters, water pumps, softeners, iron removal, water using equipment, laundry, dishwashers, garbage disposals, and disposal systems are featured.



**Preparation**

Preparing Farmers' Week displays kept many persons busy last week. One of them was Ron Draft, East Lansing graduate student who is shown with the migrant workers display in the Agricultural Engineering Building.

Photo by Chuck Michaels

## Ford recognizes farmers' needs

NOBODY needs to tell you how fast farming is changing. Your business demands more time spent as a manager than as a laborer . . . your investment is higher . . . costs up. But profit opportunities are greater--if you're geared to farm efficiency.

Many things about our business are changing, too, like the new efficient line of Ford tractors. But one thing hasn't changed--our profit still depends on you. That's why we want to do more than just "sell you a piece of equipment".

Our philosophy of serving farmers is spelled out on pages 13 to 17 of the FORD PROFIT PLANNER for 1967, available from your local dealer. If those ideas help you earn more, we benefit, too.

Ford recognizes farmers' needs, which is why our new tractor line makes so much sense. These new tractors were built to fit your jobs. It's the greatest Ford line in history, and we like to show it to you. Stop in at your local Ford dealership . . . soon!



# FORD MOTOR COMPANY

Tractor And Implement Operations (U.S.)

**Cute too**

Housewives reportedly consider this new green cauliflower to be "cute," but the added visual appeal is just one of its advantages. Holding one is its creator, Shigemi Honma, MSU horticulturist.

**IT'S 'CUTE'**

## Now, green cauliflower

Being "cute" in the eyes of homemakers is just one of the properties of the new green cauliflower developed by Shigemi Honma, Michigan State horticulturist.

Since the vegetable retains its unusual color after it's cooked, homemakers think it's cute. It makes a nice contrast to the white sauce, too. Best of all, the different color makes it easier to fox innocent children into eating it.

Honma has been working on the green cauliflower, which he calls a "Hacabro," since 1958. He crossed a Hawaiian white cauliflower with variety of broccoli, thus the name—a combination of "Hawaiian," "cauliflower" and "broccoli."

Of course the major consideration is ease of growing. Farmers must normally tediously tie all of the plants two weeks before harvesting so they don't

turn a brown color. The new variety doesn't require this.

It will be field tested this summer and growers will decide its

worth, but don't be surprised if the cafeteria serves green cauliflower next year. They didn't forget to cook them.

## 'U' livestock judging team sports impressive record

The MSU Livestock Judging Team, coached by Harlan Ritchie, Ph.D., of the Animal Husbandry Department, finished off the 1966 season with an impressive record.

The team must judge, both as a group and as individuals, beef cattle, swine and sheep on their desirability as market and breeding stock. Depending on the contest, the judges must give oral and/or written reasons on their choices.

As they travel through the midwest and east, the team members often visit private and university farms operations to observe their management.

Members of the 1966 team include: Clare Anders, Comstock Park senior; William Brown, Bellevue, Wash., senior; Janet Buck, Mt. Morris sophomore; William Byrum, Onondaga senior; Scott Cristman, Ilion, N.Y., sophomore; Norris Blackledge, Marion senior; John Fischer, Gagetown senior; Carole Gannon, Detroit sophomore; Gerry Kuhl, Sebewaing senior; James Mayes, Port Austin junior and Paul Oesterle, Mason sophomore.

The season began at the North Central Judging Contest in East Lansing last spring. Among eight teams, MSU placed first overall and took a first in swine, cattle and sheep. Brown placed first overall and took a first in swine, Mayes took a first in cattle and Anders placed first in sheep.

At the Spring Judging Contest, here, the team ranked second overall. It also placed first in swine, second in sheep and fourth in cattle. The team then went on to the Duroc Picture Judging Contest, where it placed first.

The Eastern States Exposition in Springfield, Mass., started off the fall season. The team ranked

second overall out of eight teams competing. It also took a first in swine, a second in cattle and a second in sheep.

In October MSU's team traveled to the American Royal in Kansas City, where it placed eighth among 24 teams. It also took a second in sheep and an eighth in cattle. Byrum placed second overall as an individual and Cristman, ninth.

In the Pennsylvania Livestock Exposition in Harrisburg Nov. 10 the team ranked third overall among 11 teams and placed second in cattle, second in swine and fourth in sheep.

On Nov. 12 in the Eastern National Exposition in Baltimore, Md. MSU placed second overall among 13 teams. It also took a first in cattle, a third in swine and a fifth in sheep.

The season was rounded out at the International in Chicago over Thanksgiving. Among 35 teams, MSU placed second and also took a seventh in swine, an eighth in cattle and a ninth in sheep.

## Meat team places high in judging

The MSU Meat Judging Team, composed of students primarily of animal husbandry and pre-vet, usually has a creditable record in a full round of the professional meat judging contests during the spring and fall of every year.

The team members' work consists of placing classes of; two beef carcasses, two pork carcasses, two lamb carcasses, two wholesale beef cuts and one fresh ham. They must then grade 20 beef carcasses and 10 lamb carcasses according to United States Dept. of Agriculture standards.

Finally, they must give five sets of written reasons on; one beef carcass, one pork carcass, one lamb carcass, one ham and one beef cut.

The members of the 1966 team included: Mike Bigelow, Flushing senior; John Apple, Detroit junior; Don Ridgeway, Akron, Pa., senior; Norris Blackledge, Marion senior; Jim Maness, Franklin, Mass., senior and Steve Swientkowski, Chicago, Ill., junior. Robert Merkel, Ph. D., of the Animal Husbandry Department, is the coach.

Last spring the team placed second and third at the Southeastern Meats Contest in Knoxville, Tenn. This fall they placed fifth high at the American Royal in Kansas City; first at the Eastern National in Richmond, Va. and 10th at the International in Madison, Wis.

At the Southeastern, MSU's

# Lost? Tired? Hungry?

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to the next contest? Come in  
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(continued on page 18)

# Extension Service ponders budget

New agriculture and farm development projects will depend on an increased budget proposal being prepared for 1967-68 by the Farmers' Cooperative Extension Service of MSU.

The Extension Service's budget is still to be reviewed by the State of Michigan's Budget Committee as part of the University's

total budget program. Pending approval by the committee, the budget will be submitted to the House of Representatives and then to the governor for final approval.

Although Gov. George W. Romney has promised not to sign appropriations this year until Michigan's tax structure has been

overhauled, the University's budget must be approved by midnight of June 30.

"This money is needed to help pay salaries for 250 research scientists and to sponsor over 350 research projects the cooperative is carrying on," said Joseph Marks, agriculture research news editor.

"We've made great strides during the past 100 years," he said. "In 1880 the cooperative's budget was \$15,000, and it employed five research scientists."

There are over 250 scientists on the Extension Service's present staff, and last year's budget was \$3.97 million.

"These projects have meant lower food prices and more nutritious foods for the consumer, and an increase in the farmer's economy," Marks said.

This year's budget will sponsor five major research programs.

For the study of food science,

\$280,000 will be used to develop new and improved processed foods, expanded markets, and the development of nutritious packaged and frozen foods.

servation officer in Michigan," said Marks. "At each step of the project extensive reports are written and sent to selected spots in the state."

Scientists and agricultural specialists will help any farmer in Michigan to improve his stock, farm buildings, crops and farm management programs, said Marks.

Special appropriations will be sought to help support a research center for pesticides, now in operation on the University's South Campus. The federal government will match any appropriations the state approves for the Pesticide Center.

The center has been doing research in pesticide consumption of cows and how it effects the quality of milk.

"Public concern over the health hazards of pesticides made this research project of prime importance," said Marks.

## Fewer, bigger farms in Michigan picture

Farms continue to grow larger but less numerous in Michigan, the Michigan State Agricultural Experiment Station reports.

Whereas in 1959 there were about 65,000 farms in the state there were only 60,000 in the census of 1964 and the 1980 projection is for only 37,000 farms. These farms, however, are larger in size than ever before with the 1964 farm being about 18 acres larger than the farm in 1959. The farm of 1980 should be almost 90 acres larger than the farm of 1964.

The rise in size is due to larger farms expanding when many of the smaller farmers quit the market. This loss of many small farmers is due to a low return of profits and also because of higher wages outside of farming, Karl T. Wright, professor of agriculture economics, said recently.

Small farmers do not make enough from their crops to enable them to hire enough help and thus their next year's production is lowered, said Wright. Many small farmers also get outside jobs to supplement their farming and thus they cannot devote full time to their crops, he added. The higher wages also attract many potential farmers hands from farming to the factories.

One method that farmers use in combatting the loss of labor is buying more machinery so they can farm more land without having extra help. There is sometimes over \$25,000 spent by one farm on machinery, Wright said.

Incomes have begun to rise recently for farmers, said Wright, and this fact is confirmed by the Michigan State Agricultural Report. The report said that although farmers earned only \$2,250 per farm in 1964 they will earn up to \$4,350 per farm in 1980. There is also a trend towards higher production in Michigan despite the fact that there are less farms, the report said.

The most critical part of the

## MSU works on irradiation

Some of the first experiments using irradiation to preserve foods were begun in MSU's Dept. of Agricultural Engineering in 1955.

MSU scientists found that beta rays were very effective for destroying organisms in powdered products. Similar good results were also found when the beta rays were used to kill organisms within bacon and certain other products such as wheat flour.

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## Beef cattle industry gets boost at center

Michigan's \$100 million beef cattle industry, the second largest and one of the fastest growing agricultural industries in the state, gets a boost at MSU.

Michigan's beef producers raise only 30 per cent of the beef consumed in the state, but industry production is expected to increase 150 per cent in the next decade.

Expanded research programs are under way at MSU's beef Cattle Research Center and Agricultural Experiment Station to develop Michigan's beef industry potential and insure the state adequate amounts of high quality beef.

Fifty-two lots of cattle on various nutritional and management trials are a daily exhibition during Farmer's Week at the Beef Cattle Research Center.

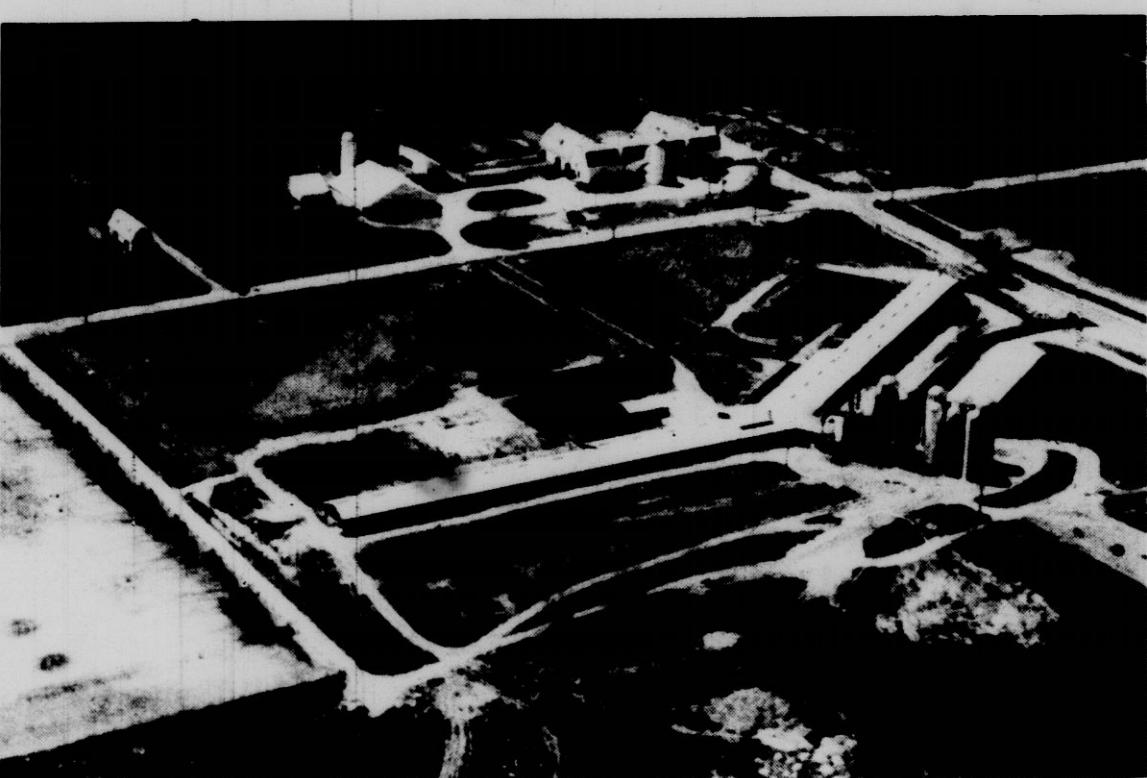
These trials include corn si-

lage maturity studies, fineness of chopping corn silage, fineness of grinding high moisture shelled corn, hormone additives, density studies and controlled environment tests.

Performance of steers fed alone vs. heifers fed alone vs. steers and heifers fed together are also featured.

MSU's research studies include fundamental ruminant nutrition, fundamental physiology, genetics and breeding, cow-calf management and forage production and management.

Other studies carried on at the Beef Cattle Research Center include various housing experiments, feeding experiments and other "controlled atmosphere" studies aimed at increasing farm production and placing it on a sound and competitive basis.



**Cattle center**

During the week many farmers will visit MSU's experimental beef feeding area and the barns for experimental work in breeding better quality feeder cattle. The buildings are located on Beaumont and Bennett roads.

## Farmers' Week to feature home comforts for livestock

"All the Comforts of Home" for sheep, hogs and beef cattle will be dramatically illustrated during Farmers' Week on the MSU campus.

Beef cattle producers will be treated to a new look in feedlot housing Tuesday afternoon in Anthony Hall. Exhibits will include scale models of some of the newest research developments in housing.

A number of specialists will be here Tuesday to discuss this new trend in beef cattle housing. Among them will be Wesley Anderson of Cokato, Minn., an experienced beef cattle raiser, who will discuss "Six Years of Experiments with Controlled Environment and Slotted Floors."

In addition, Robert Maddex, MSU agricultural engineer, will offer plan specification and costs of building and installing

modern slotted floor housing facilities. Other specialists will discuss the potential for expanding cow-calf herds in Michigan.

Two speeches will highlight the Wednesday morning sheep demonstrations in the livestock pavilion. First, MSU veterinarian Clifford Beck will discuss the characteristics of sound sheep. The second speaker, Harold Henneman, of the animal husbandry department will talk on "Sheep Supplies."

The afternoon sheep program in Anthony Hall will feature an exhibit of measures necessary to economically increase productivity per ewe. The main speaker of this program will be Arthur Brandt, Versailles, Ohio, Master Shepard Award winner of Ohio for the past two years. Brandt will discuss the management techniques he is using in

the operation of his 270-ewe commercial operation.

A life-size hog housing setup for both farrowing and finishing hogs will be the main attraction during the Thursday morning hog program at the livestock pavilion. Here MSU specialists will point out how the housing facilities should be insulated and ventilated.

This afternoon program will feature Russell Jeckel, Delavan, Ill., one of the nation's outstanding swine producers. Jeckel will tell how he and one hired man raised 3,500 hogs from farrowing to finish for market.

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**Typical**

A display of modern farm equipment, such as the combine shown above being worked on by MSU students, will be shown during Farmers' Week at the Agricultural Engineering Building.

Photo by Chuck Michaels

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## Exhibit spotlights tractors

The highlight of the agricultural engineering exhibits during Farmers' Week will be a tractor equipped with a transistorized AM-FM radio, a two-way radio to keep in touch with home, wall-to-wall carpeting, an electronic seed counter and a closed circuit television.

This tractor, according to MSU agricultural engineers, is more than a luxury item. It is specially designed by a commercial company to provide the modern farmer with more comfort, enabling him to work long hours in the field, and more precise, scientific control over his environment. The TV will enable the operator to keep a constant eye on the trailing equipment while watching other controls.

The costs for tractors displayed by the nine major manufacturers, range between \$3,000 and \$12,000.

Carl W. Hall, chairman of agricultural engineering, says "Engineering for Modern Agriculture" will be his department's theme during Farmers' Week.

"It is estimated that at least 80 per cent of the technological changes that have occurred on American farms involve engineering techniques or principles in some way," comments Hall. "Our Farmers' Week programs are intended to help explain how these changes can be met effectively and wisely."

The latest pickle and asparagus harvesters, a complete line of crop drying equipment, combination tillage and planting units,

liquid manure handling equipment, anhydrous ammonia spraying equipment and several silo models will also be included in the agricultural engineering exhibit.

A full line of events are in store for the agricultural engineers during Farmers' Week.

Beginning Tuesday morning, the agricultural engineers will begin reporting on the latest research developments in fruit and vegetable harvesters, a new technique for placing an asphalt layer under the soil to conserve moisture in sandy soils, trends in tractor development and extensive discussion on improvements in dairy housing and feed handling.

Wednesday the program will concentrate on improving the water supply for both farm and home. Water systems, sanitary

regulations, pollution, softening, iron removal and other water problems will be discussed.

An agricultural engineering banquet Wednesday evening will have a presentation of a "Distinguished Service Award" and naming of the "Engineer of the Year" in Michigan.

Keynote speaker for the banquet will be Sylvan H. Wittwer, director of MSU's Agricultural Experiment Station, who will report on some of the Experiment Station's 350 research projects and their importance to the future.

The Thursday program will be a discussion on "Systematic Decisions for Mechanizing the Entire Farm." Reports will be given on the labor, equipment and economics in developing a completely mechanized setup for hogs, beef and dairy operations.



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**NATURAL RESOURCES**

## Ag College gets additional title

Farmers' Week will give thousands of farmers visiting the University an opportunity for a first-hand look at current developments in natural resources.

A primary feature of the University's Natural Resources program for interested spectators will be a tour of MSU's new \$4 million Natural Resources Building. The tour includes action demonstrations of various research equipment used by forest products industries.

This year's program for Farmers' Week will have more meaning for undergraduate students in the Natural Resources area due to a recent change in the name of the College of Agriculture to the "College of Agriculture and Natural Resources."

The Board of Trustees approved the change of the University's oldest division last November to its present name.

"This name change," stated Howard A. Tanner, director of the Division of Natural Resources, "has given more identity to the four departmental areas of natural resources and has had relative meaning from both internal and external aspects.

"Internally it has brought the four departments of Forestry, Forest Products, Fisheries and

Wildlife and Resource Development closer together.

"Externally it has gained the support of people interested in natural resources who now have a way of associating themselves with the college."

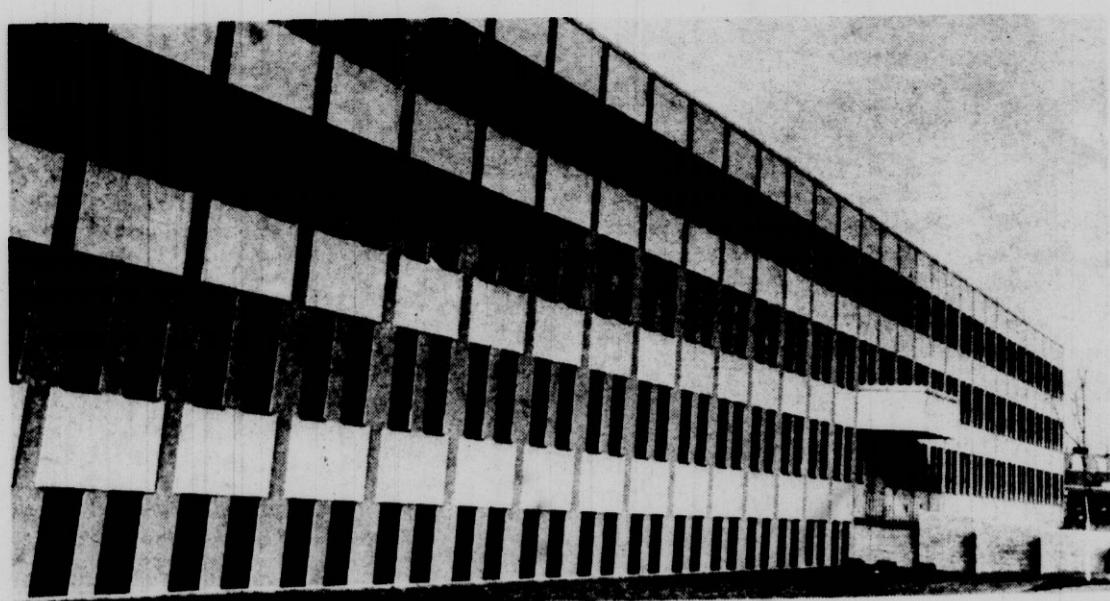
Between 40-50 per cent of the college's present undergraduate enrollment is in the area of natural resources. According to Tanner, this substantial proportion of enrollment represents a different area of emphasis and reflects a national interest in this field.

"Michigan State is recognized among the top five or six schools in natural resources in the country," said Tanner.

"With this in mind the Natural Resources Division is trying to increase the degree of interdepartmental sharing of curriculum to give students a broader education in the area of natural resources.

"The change in the college's name to include natural resources has given us an opportunity to emphasize our program."

Besides the tour of the Natural Resources Building there will also be a panel discussion in the Fisheries and Wildlife and Forestry departments.



### New facility

Tours of the University's new Natural Resources Building will be among the features of Farmers' Week. They are to start in Room 172 at 10 a.m. Tuesday, Wednesday and Thursday. The building at Farm Lane at Wilson Road will also be used for a variety of programs.

Photo by Larry Fritzlan

## Resources bldg. holds tours

A variety of Farmer's Week activities will be held at the new Natural Resources Building, located south of Anthony Hall at Farm Lane and Wilson Road.

Tours including action demonstrations of various forest products research equipment will be held at 10 a.m. Tuesday, Wednesday and Thursday, beginning in room 172.

A series of specialized programs will start at 9:30 a.m. Tuesday in the auditorium when Lewis W. Moncrief of the Resource Development Dept. will present "Golfing in Rural Recreation". Following at 10:30 will be "Ingredients for a Successful Rural Recreation Enterprise."

At 1:30 Tuesday in the auditorium Norman F. Smith of the Conservation Dept. will speak on outdoor recreation. At 2:30, there will be a program on camping area design, and at 3:30 a Rural Recreation Enterprises meeting.

At 10 Wednesday will be a program on the status of Michigan shooting preserves in room 221; and "Changing Land-use in a Changing Michigan" in the 350-seat auditorium. Two other programs on shooting preserves will

be given in room 221 at 10:30 and 1:30.

"Challenges of Regional Planning," by William C. Roman, director of the Tri-County Regional Planning Commission, and "State-wide Development and Planning in Michigan", by Donald E. Barley of the Michigan Dept. of Commerce, will be presented at 10:45 and 11 a.m., both in the auditorium.

Maple syrup producers will meet for discussion 10 and 11 a.m. Thursday in the auditorium, on "New Methods for Concentrating Maple Sap," and a research report.

Throughout the entire week, exhibits will be on display, featuring an "instant ocean" of coho salmon, wood products, land and water management, and items of interest to conservation leaders.

The four-story building itself, built at a cost of \$4 million, was first occupied in September. Designed by Albert Kahn and Associates of Detroit, it is paneled in various attractive and fire-proofed woods, such as cherry, imperial walnut, elm, birch, red gum, aspen, ash, oak, pecan and grey hardwood.

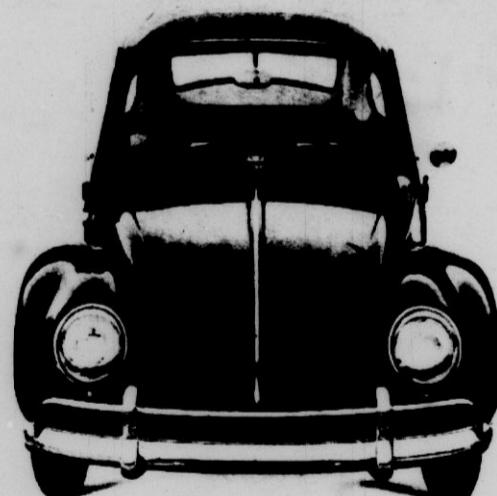
Headquarters of the departments of Fisheries and Wildlife, Forestry, Forest Products and Resource Development are located there, as well as the Institute for Water Research and U.S. Forest Service Office.

In it a faculty of 50 serves 1,000-1,100 students. Classes offered include forest economics, resource development, water resources, soil conservation, parks and recreation and community development.

Featured facilities include: a metal-walled Balance Room, dust and vibration free; Fracture Lab, for testing wood under varying pressure; Hot Lab, testing the resistance of wood to flame; Stress Room, for testing wood structure.

Also, a Metal Machine Shop, which produces new materials for research products; Electron Lab; Climate Chamber; animal runs and pens; Cold Room, for observing plant and animal functions at varied temperature; Isotope Counting Room; Necropsy Room, where fish are stored for further study.

And, an artificial stream; graduate cubicles; a reference library containing periodicals and reprints; and an Activities Room, where the natural resource clubs have their offices.



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# Putting ideas to work agents' aim

The diffusion of new ideas in agriculture is the key role of the Extension Service, said Mason Miller, director of the MSU institute of personnel development.

Miller, speaking last week to the faculty of the Agriculture Dept., said that there has been a wide gap between the practicing farmer and the scientific innovator.

"The Extension Service's main purpose is to take the new ideas

discovered by the agricultural researchers and put them into understandable terms and disseminate them to the individual farmers," Mason said.

"We must help farm people do things differently today; to change with the times," he said.

"We are the agricultural sociologists," Mason said, "and we must know the farmer as well as the sociologist knows the slum area."

Mason said that there are four stages that extension workers go through to adapt farmers to new idea.

"We must make the farmer aware of the innovation," he said. "We must use mass media as the primary means of information."

"Next, we must attract his interest. We must point out the individual advantages to him."

"These first two stages are so important, for without them we would not be able to get the farmer to try the innovation, the third stage. Here we must convince him, sell him on its benefits," Mason said.

"Finally, he can then adopt the innovation and spend the necessary capital to make it an integral part of his farming technique."

nique," Mason said. "The farmer, like the city dweller, should command the respect of his position of the American economy."

"The farmer provides the life-blood of the economy, and should

be made aware of all the beneficial changes in his industry," Mason said. "Through this means only can the agricultural economy grow to meet the population's needs."

## Youth show

(continued from page 6)

**John J. Forsyth**, Orientation Coordinator; Robert Piersma, Admissions counselor; and William A. Mann, professor of counseling and personal services.

Norman A. Brown, coordinator of student program in the College of Agriculture and Natural Sciences and chairman of Youth Day, will moderate the discussion.

The Youth Day Program is being co-sponsored by the Colleges of Agriculture and Home Economics.

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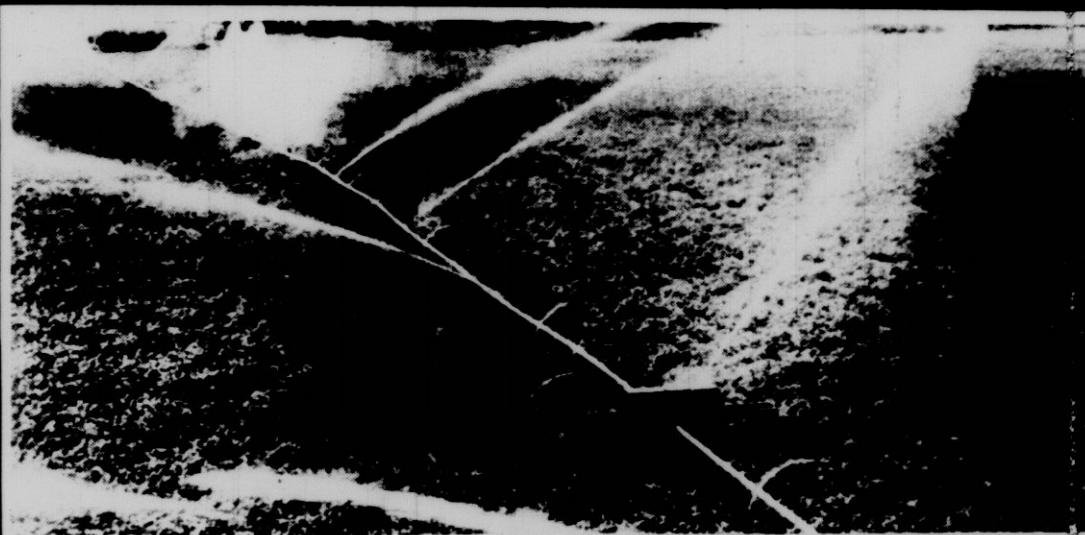
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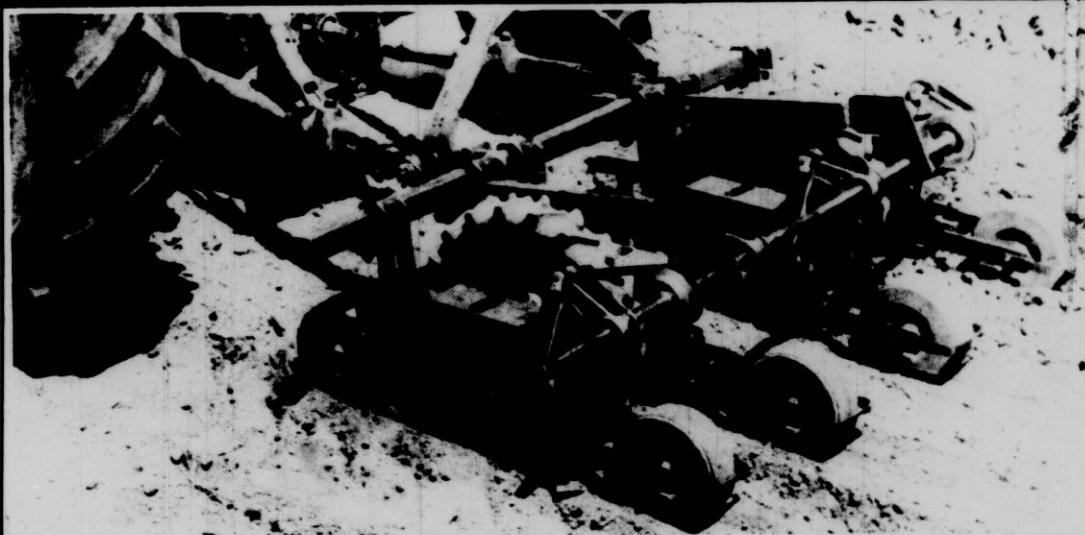
FARMER'S WEEK M.S.U. JAN. 30 - FEB. 3, 1967

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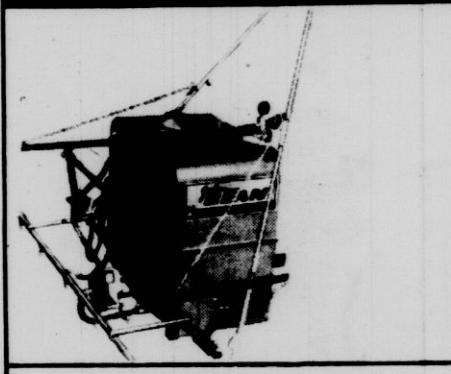
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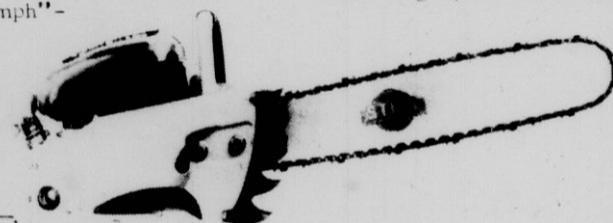
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**Hidden helper**

This 1/8-inch-thick layer of asphalt, placed two feet under the surface of sand soil, doubled the water holding ability of the soil and greatly increased crop yields in experiments. This process will be presented to Michigan farmers in various presentations this week.


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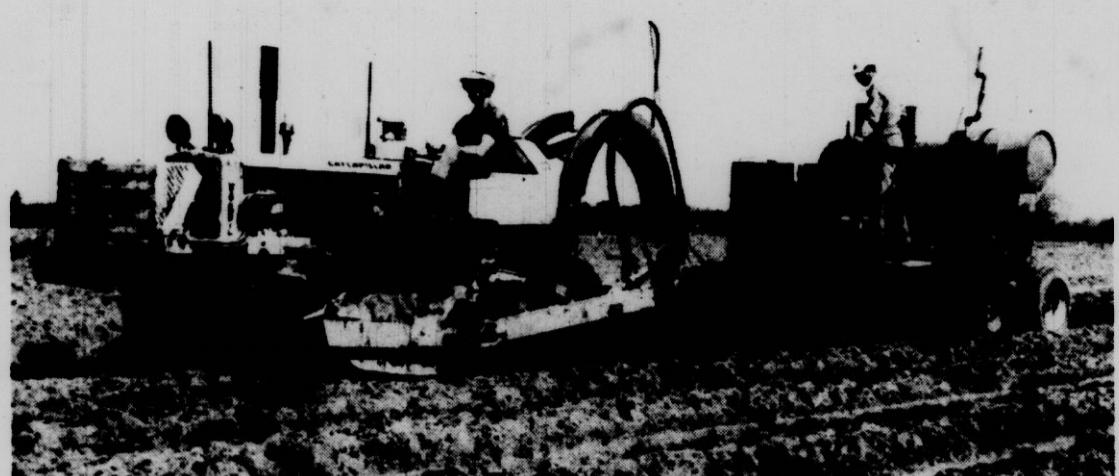

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**Underground paving**

By means of this specially designed equipment, an asphalt emulsion is sprayed two feet below the surface of sandy soil in order to improve crop yields by stopping water seepage. This technique, recently developed by two MSU faculty members, will be discussed at 11:15 a.m. Tuesday in 116 Agricultural Engineering Building.

## Asphalt strips under soil help in higher crop yields

The road to better crop yields may well have been "paved" by recent developments here at MSU which will make millions of acres of marginal farm land productive. Clarence M. Hansen, MSU agricultural engineer, and A. Earl Erickson, MSU soil scientist, have developed a technique for putting down a layer of asphalt two feet below ground level.

The two began working on the idea seven years ago when they noticed that certain areas of Michigan produced a high yield of crops from loose, sandy soil. They discovered this soil was productive because of a natural layer of clay which acted as a "hardpan" to retain moisture. "We decided to mimic these soils," said Erickson.

They first tried placing a layer of clay under the soil and when this failed, they even tried sheets of polyethylene two feet below ground. Both of these attempts failed as water leaked through holes or seams, and the crops fared badly.

At the suggestion of the American Oil Co., the researchers began experimenting with asphalt. Once they had perfected their technique, the results were bountiful.

The researchers said recent field trials showed yield increases of cucumbers and cabbage were so great that the cost of putting down the asphalt was repaid in just one season.

The asphalt is put down by a

specially designed shoe which allows an asphalt emulsion to be sprayed two feet under the surface of sand soil. The asphalt hardens almost instantly into a 34 inch wide ribbon about 1/8 inch thick. Additional ribbons are overlapped to ensure that the entire layer will be water tight.

In research trials conducted by MSU and American Oil Co., the cost for putting down the asphalt was about \$225 per acre. But, the scientists added, this cost can be reduced with improvements in machinery. Hansen is now working on a machine that will lay down a 10-foot strip. Furthermore, the layer should last at least 15

years before it has to be replaced.

Hansen pointed out that about 20 horsepower is needed per foot of sweep of the asphalt under two feet of sand soil. He added that when the process is expanded commercially, the job will probably be performed by a custom operator skilled in the use of asphalt and the equipment needed to place it under the soil.

So far the asphalt layer has proved effective on cucumbers, potatoes, beans and cabbage and, commented the scientists, should also work on several other crops. The asphalt layer might also be used under ponds or irrigation ditches to prevent excessive water seepage.


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It's so long-lasting one application is all you need. See us today for details. And save some money for a change.



### Best in beef

Blackie, the Grand Champion Angus steer from the 1966 International Livestock Exposition, will be on display in the Livestock Judging Pavilion this week. The steer brought Harvey Hartter (right) of Carlock, Ill., \$17,625 in the exposition auction.

## Recreation alternative use

Farm land can be advantageously used as an outdoor recreation business enterprise, Emmanuel Van Nierop, assistant professor in the Dept. of Resource Development said.

Outdoor recreation as a business enterprise in Michigan is being featured by the Dept. of Resource Development at the 1967 Farmers' week.

Speakers representing different aspects of outdoor recreational enterprises have been invited to speak, Van Nierop said.

"Some of the farming areas of Michigan have been converted to outdoor recreational enterprises because of the competition among farmers and the high cost of mechanical equipment," Van Nierop said.

"Sometimes it is more profitable for the farmers to convert their lands into golfcourses

or some other type of recreation business, as for example horseback riding," Van Nierop said.

"Often the farmer may use his land for both farming and recreational enterprises," he said.

In a survey conducted by the State Soil Conservation Committee and compiled by Van Nierop, approximately 3,000 outdoor recreational enterprises using up about 300,000 acres of land were listed.

Some of the people invited to speak are John Bintz of Apple Mountain Ski Area and Knight Webster of Upland Hills Farm, Oxford who will speak on rural recreation.

Lewis Moncrief, of the MSU dept. of Resource Development will speak on golfing, whereas, Norman F. Smith of the Michigan Dept. of Conservation will speak on future plans for out-

door recreation in the state of Michigan.

Samuel A. Milstein, of the Michigan Dept. of Conservation will give a talk on the design and planning of tent and trailer camping areas.

Louis Twardzik, MSU Extension specialist in parks and recreation, will preside.

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# Ag research gets 'new look'

Establishment of a new experiment station and major changes in research emphasis are part of agricultural research's "new look" in Michigan.

Sylvan H. Wittwer, director of MSU's agricultural research program and assistant dean of the College of Agriculture, has announced major changes in both the location and the nature of several of MSU's 350 research projects in the coming year.

The new experiment station has been established six miles west of McBride in Montcalm County to improve the production and efficiency of crops -- especially potatoes--for processing.

The yield goal for potatoes is 2,000 bushels per acre. Commercial growers today average 600 bushels per acre.

The 80-acre site will also be used to increase production and quality of other crops that might

be grown with potatoes--beans, wheat, corn and horticultural crops.

"The establishment of the new research location in the heart of western Michigan's prime potato producing area is the result of several studies which indicate a great potential for the industry in the state," commented Wittwer, who is also a professor of horticulture.

MSU's Lake City Experiment Station, formerly the center for potato research projects, will now be used to study the feeding, breeding and management of beef cattle, forages and pasture. Wittwer noted that Michigan produces only about one-third of the beef consumed in the state.

"Furthermore, we have a surplus of feed grain which is shipped out of the state that could be used for expanded beef production," he said. "Our main emphasis will be to determine the economic feasibility of developing cow-calf operations, particularly in the northern part of the state where good forages are available."

Another shift in research emphasis will occur in February when an expanded turkey research program will begin at the experiment station near Chatham in the Upper Peninsula. In a series of experiments, poultry scientists will test the feasibility of producing turkey eggs at times during the year when turkeys do not lay eggs further south.

"Our scientists are hopeful that the cooler temperatures in the Upper Peninsula may allow year-around egg hatching and provide continuous supplies of turkeys of various sizes," said Wittwer.

Much of the chicken research now conducted in Chatham will be shifted to the Poultry Science Research and Teaching Center recently established on south campus.

Wittwer also noted that particular emphasis will be given during the coming year to proposed research programs in these areas:

--food science programs aimed at developing new, high quality processed foods and expanding markets for Michigan's food industry.

--natural resources studies aimed at improving the use and



## Reverse result

Extra doses of carbon dioxide, a gas which can be fatal to humans, boosted plant growth substantially in greenhouse experiments here. Sylvan Wittwer, director of the Agriculture Experiment Station, points out the normal and treated plants.

management of Michigan's forest, water and wildlife resources.

--the soft white winter wheat program to adapt hardy, disease-free varieties, to encourage production of an adequate supply of soft white wheat and thereby expand the milling and break-

fast cereal industries that depend on this wheat supply.

--beef cattle studies designed to strengthen this industry through an improved forage feeding program.

--sod industry research aimed at development of new varieties and reduction of production time, prevention of loss during shipment and expansion of markets for Michigan's producers.

"We are making these changes as the result of findings from Project '80, a two-year scientific look at Michigan's rural potential by 1980," commented Wittwer. "These findings have indicated those areas of Michigan where economic potential is the greatest in terms of the resources now available."

"In some fields, research techniques, methodology, terminology and equipment predominate today that didn't exist 10 years ago," he said. "The challenge for research is to be flexible enough to move with the times--to get ahead and stay ahead."

## Meat team

(continued from page 10)

team included Ridgeway, Apple, Maness and Bigelow as the first, third, fourth and fifth high individuals, respectively. In the American Royal, Bigelow finished ninth high among individual competition.

The team then went on to the East National in Richmond. High individuals included: Maness, second; Ridgeway, fifth, and Swiontkowski, ninth.

The last competition of the 1966 season was at the International where the team placed 10th among 22 teams.

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## Flowers on display Thursday

A "Kaleidoscope of Colors" will be presented by the MSU Floriculture Forum Thursday in connection with Farmers' Week in the University Auditorium.

Students majoring in commercial floriculture will be judged on three arrangements they create. Types of arrangements to choose from include wedding, funeral, hospital, home and novelty arrangements. Judging will be based on the students' ingenuity, originality, design and style. Ribbons will be given to top winners.

Flowers of all kinds will be supplied to the students by statewide growers. Orders are placed by each student for the kinds needed to complete his arrangement.

All arrangements will be on display in the Auditorium Thursday and Friday.

The highlight of the day will begin at 3 p.m. with a design show presented by the students in the Auditorium. Students and the general public may watch these floriculture students as they design arrangements to be auctioned off upon completion.

"The public can look and see what's being done and what can be done, getting some new ideas for flower arrangement," said Jim Smart, Saskatchewan freshman, a member of the Floriculture Forum.

The flower show will close at 11 p.m.



### Floral Art

Floral creations such as this Valentine's Day arrangement will be seen in the Kaleidoscope of Colors in the Auditorium Lobby Thursday and Friday. This work with chrysanthemums was done by Jim Smart, short course student in floriculture.

Photo by John Castle

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## Malting barley production being tested in Michigan

Two new varieties of malting barleys, the type used in the manufacture of beer and ale, are being tested in Michigan this year.

A winter barley, developed by John Graefius, crop science plant breeder, at the Michigan Agricultural Experiment Station, has been planted on six farms in Cass County. Winter barley is planted in September, allowed to grow through the winter and spring and is harvested in July.

The barley, as yet unnamed, will be inspected throughout the spring growing season by MSU crop scientists and commercial malt barley authorities. When harvested, the barley will be tested by the Richel Malt Co. in Detroit.

Another malting barley will be planted this spring near Alpena and in the Thumb area in eastern Michigan. This barley is of the two-row variety grown

primarily for brewing purposes in Europe. Six-row barley is the type predominantly grown in the United States.

Two other malting barleys are now being grown commercially in Michigan. These are the Larcker and Traill varieties. The majority of the barley grown in Michigan, however, are not malting barleys, but are used for feeding.

The development of new barleys is a long and complex process involving the crossing and recrossing of different strains to attain the desired characteristics.

Barley production is a small industry in Michigan, but Michigan Cooperative Extension staff members think it can be developed into a major cash crop. They are working with MSU researchers and farmers in the test growing of this crop.

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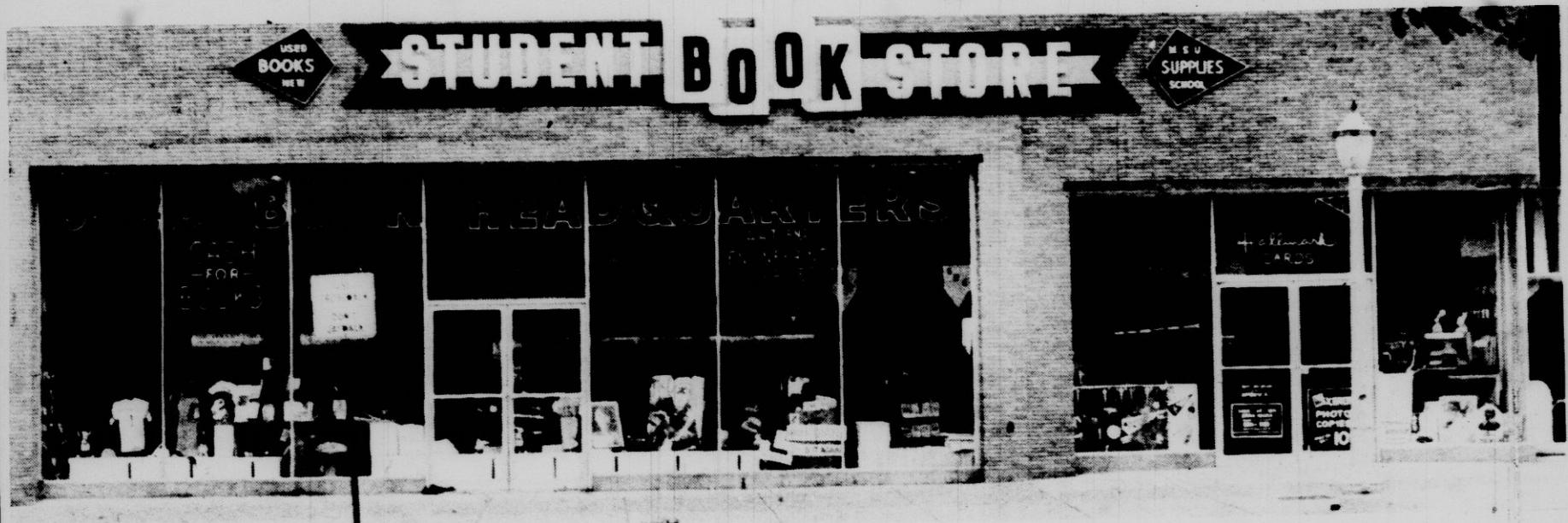
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