



# Pre-Enrollment Begins This Week

## Visiting Hours OK'd For Olin

By JOHN ELMER  
State News Staff Writer

Beginning today, students may visit their hospitalized friends at Olin Health Center from 2 to 4 p.m. and 7 to 8 p.m. daily. In announcing the new visitation policy, Dr. James S. Feurig, director of Olin Health Center, lifted the barrier that restricted

visitors to family, clergy and authorized advisors of patients. Feurig said the new regulations are "consistent with conventional hospital policy."

"A patient in satisfactory condition may have two visitors at a time from 2 to 4 p.m. and 7 to 8 p.m. daily, seven days a week," he said.

"The number of visitors a patient receives will, of course, be contingent on how fast visits are made and passes returned so that others may make use of them. We will not authorize visitation of a patient in isolation, or poor or critical condition. Also, if the family of the patient, or the patient himself, desires a cutoff of visitors, such requests will be honored."

Feurig said the possibility of revising visitation policy was brought to President Hannah's attention at a Jan. 19 meeting of the Spartan Round Table. He said,

however, that the process was going on quite a while before that.

"Changing times and a liberalization all the way around is at the root of this policy change. We just looked around and found ourselves in a great minority with respect to visitation rules," Feurig said.

Asked how he thought the new policy will work, Feurig said:

"I like to feel that mature behavior will be demonstrated by students. Hospital rooms are not, and will not be, chaperoned. If a parent came in and found some provocative situation... well, I hope behavior will be such that this new policy will not be threatened. I believe students at MSU are mature enough to see that it will not be."

## Pilgrimage Engulfs Grave Site

BLADON, England (P)—A rectangle of freshly-turned earth in Bladon's country churchyard became a national shrine Sunday. Beneath the brown Oxfordshire clay lay the remains of England's great statesman-hero Sir Winston Churchill.

He was buried in this little plot Saturday near his forefathers after a state funeral in London that matched the glory usually granted only to monarchs.

Police estimated that between 60,000 to 70,000 mourners, many of whom had never heard of Bladon before, came to the village in autos or walked across the wintry hills for a pilgrimage to the grave Sunday.

For centuries Bladon lived in quiet, contented obscurity. But life for its 413 people will never be quite the same again.

It had a traffic jam Sunday—what was new. The parish councilors had to bring out squads of police reinforcements from the surrounding countryside to control the crowds.

"We have got to give a good deal of thought to the provision of public amenities," said Charles French, clerk to the Bladon council. "This sort of thing is going to happen, possibly not on the same scale, on weekends and holidays from now on."

The village's one and only parking lot was crammed tight so that a field half-a-mile down the lane from the church had to be used to take the overflow.

## Britain Faces Political War

LONDON (P)—Britain Sunday entered a phase of fierce political warfare at home and challenge abroad which together could hurry along a new national election.

A brief truce, spanning the dying hours and burial of Sir Winston Churchill, ended at midnight. The interlude, with sad symbolism, reminded Britons of their proud yesterdays and re-kindled hopes for brighter tomorrows.

But harsher realities will take sway again today.

Those realities include the nation's fight against devaluation of the pound, its efforts for greater industrial output and world-political influence, its drive for a more effective defense policy and its aim to evolve better relations with the United States, France, West Germany and other allies.

Against this background, Prime Minister Harold Wilson braces to resist a frontal assault on his program by Sir Alec Douglas-Home, who leads the opposition Conservatives.

Immediate setting for their confrontation will be a Tuesday debate in the House of Commons, where Wilson's Laborites command a wafer-thin margin of three in a 630-member chamber.

Douglas-Home will seek to censure the Labor government for what he describes as "a narrow and ill-considered policy... during its first 100 days in office." If the motion carries, Wilson will have to dissolve Parliament and call an election.

## A Little Too Late

If campus police had been 25 minutes late making their rounds Saturday night, a Lansing Community College student would be happier today.

Police Officer Horiszny, 1208 Gordon St., and Edward D. Hodge, 20, 608 Lincoln St., both of Lansing, were arrested for being minors in possession of alcoholic beverages.

They were caught drinking at the Veterinary Medicine Clinic construction site at 11:35 p.m. Horiszny, born Jan. 31, 1944, became 21 years of age at midnight Saturday.



A REAL FIRST--Al Dunkelberg, Ann Arbor freshman, wanted to be sure he was the first person in the IM outdoor pool in 1965. So, at 2:15 p.m. Friday, with the temperature about five degrees and the wind blowing, he took a dip. Hearty fellows we have at MSU. Photo by Jonathan Zwickel

## Investigation Panel Will Visit Academy

AIR FORCE ACADEMY, Colo. (P)—A special five-man panel named to investigate the cheating scandal at the Air Force Academy will visit the school within two weeks to make a thorough study of several major cadet and administrative functions.

The impending visit was announced by the committee following an organizational meeting in Washington on Saturday.

In the meantime, Air Force investigators will continue to question those members of the 2,567-cadet wing suspected of violating the academy honor code. Ninety-three cadets have resigned since the exams-for-sale probe was first disclosed Jan. 19.

A call for "patience and faith" in dealing with the problem was

made in Tokyo Sunday by a former director of athletics at the Academy, Air Force, Col. M. L. Martin. He warned against anticipating the cause and dictating a cure "that probably does not fit the diagnosis."

"We cannot stop those who criticize without knowledge, but we can withhold our own judgment," he said.

Martin, director of athletics at the Academy for three years, was transferred to Japan in mid-1963 and now is commander of the 41st Air Division at Yokota Air Base, near Tokyo.

In a copyrighted story Sunday, The Denver Post said a "clever" member of the junior class

(continued on page A-3)

## Russian Leaders May Visit U.S.

MOSCOW (P)—The new Soviet leaders informally accepted Sunday President Johnson's informal invitation to visit the United States.

This and endorsement of a U.S.-Soviet summit conference were indicated by an official-inspired comment on Johnson's State of the Union message on Jan. 4.

Johnson proposed a visit, exchange of television programs by the national leaders and increased trade.

The Communist party newspaper Pravda said the suggestions "met with a positive response in the Soviet Union."

In the stilted Soviet style, that meant "yes." There was no immediate follow-up in any official message to the U.S. government.

At the same time Pravda published an official announcement that indicated a strong possibility of Soviet plans to supply military aid to Communist North Viet Nam.

The announcement said Premier Alexei Kosygin will take with him to Hanoi the man who negotiates military aid agreements

and the head of the Soviet air force.

The Soviet Union has repeatedly endorsed Hanoi's charges of U.S. aggression against North Viet Nam and has promised "the necessary assistance"—but without elaboration.

Introducing Soviet arms into the Vietnamese situation might cause further problems in Soviet-American relations, in the opinion of some Westerners here.

But Pravda's comment on Johnson's remarks said "the Soviet Union has always sought understanding with the United States of America..."

U.S. Embassy sources said there had been no discussions here of Johnson's invitation. The Pravda article came after a silence of more than three weeks on it, although parts of the President's Jan. 4 remarks had been criticized at the time.

## Soviet Premier's Visit Called Influence Tool

TOKYO (P)—Premier Alexei Kosygin's impending visit to Communist North Viet Nam was seen here Sunday as an attempt by the Soviet Union to restore its influence in Southeast Asia.

While the make-up of Kosygin's delegation indicated possible military aid to the North Vietnamese, Japanese newspapers suggested the visit may be more political than military.

The daily Asahi said the projected visit gives the impression the Russians want to reinforce their stake in Southeast Asia, the heart of the Asian political situation.

The paper added the Russians may be taking this step because of a developing Red Chinese-Indonesian axis—as well as Peking's influence on the Indochinese peninsula; Viet Nam, Laos and Cambodia.

At the same time, an editorial in the North Vietnamese Communist party newspaper, Nhan Dan, indicated that the North Vietnamese may attempt during Kosygin's visit to reconcile the Moscow-Peking ideological dispute.

Asahi speculated that one of the purposes of the Soviet delegation during the trip would be to get North Viet Nam to attend the Communist conference in Moscow March 1 to prepare for a full-dress world meeting of Red leaders to end the dispute.

Red China is expected to boycott the meeting and so are some of its allies.

North Viet Nam, whose ideological utterances have faithfully echoed the Chinese attacks on the Russians, has not made its stand clear on the conference.

Asahi said it may be expected

## Casual Stroll Is Big Break

LEICESTER, England (UPI)—Prisoner Keith Hardy had no trouble escaping from the jail at Leicester, England, Saturday. He just hailed a taxi after strolling away from a working party outside the jail.



FARM FAMILIARITY--This is just one of the many exhibits displayed in connection with Farmers Week, being held on campus this week. This year's affair is the 50th annual Farmers Week. Photo by James H. Hille

## Visiting Farmers Look Back Over 50 Progressive Years

Old McDonald and young McDonald will have the opportunity to compare notes during Farmers Week at MSU this week.

In celebration of the 50th anniversary of Farmers Week, displays and events will revolve around the theme, "From Pro-

gressive Past to Forward-Looking Future."

MSU President John A. Hannah will speak on MSU agriculture of the next half century Thursday in the auditorium. Awards for distinguished service to agriculture will be presented.

Fifty years of farm mechanization will be on display in Arena 1 of the Intramural Building. Partial structures and cut-away models of dairy barn milk rooms and poultry houses of the past will be used as backgrounds for the tractors and equipment of 50 years ago.

Progress in kitchen equipment will be displayed in the Agriculture Engineering Building.

Those who have actually witnessed progress in farming and have attended Farmers Week 10 years or more will be entertained Wednesday during Veterans Day. A reception and luncheon will be given in the Union.

The accent will be on youth Tuesday and Thursday. Panel discussions and career exhibits will be used at the Auditorium to assist young people who are preparing to enter agriculture.

Puppets, baton twirlers and various dancing and singing groups of the 4-H Club will entertain at Fairchild Theater.

The "meat and potatoes man" will find many activities of interest during the week. Meat-cutting demonstrations and a discussion on the buying and preparation of meat will take place Wednesday on closed circuit television at the Auditorium.

Potato Day will be celebrated at Kellogg Center Thursday. All aspects of the potato—from weed control to new machinery—will be discussed.

Comparison of today's production costs with those of 50 years ago will be the subject of many meetings. Agriculture engineering and economics have planned discussions throughout the week dealing with both farm management and marketing.

The Honorable Tran Van Dinh will speak on the war in Viet Nam Wednesday at Fairchild Theater. Visitors to Farmers Week are welcome.

More than 400 will participate in the numerous events planned to illustrate this golden anniversary of farming progress.

## U.S., Belgium In Conspiracy Says China

TOKYO (P)—Communist China charged Sunday that a U.S.-Belgian conspiracy, linked to the assassination of Premier Pierre Ngendandumwe, resulted in the ouster of Peking's whole embassy staff from the African kingdom of Burundi.

Washington denied the charges. Peking radio said Burundi authorities surrounded the Chinese embassy in Bujumbura with grenades Friday and presented a note giving Ambassador Liu Yungang and his staff 48 hours to get out of the country.

The Red Chinese had a vast number of diplomats in the tiny African kingdom, which it used as the headquarters of efforts to infiltrate the continent.

## Procedure Slightly Modified

Students will start pre-enrolling for spring term classes this week.

Using a new enrollment procedure implemented for the first time winter term, students will meet with their advisors and plan their spring term schedules in advance of early registration.

The assistant deans of all the colleges met recently with the advisors to assess the new enrollment and registration procedures and suggest ways of streamlining the system.

The suggestions made at that meeting and other hints on avoiding mistakes are being compiled and will be published in the State News prior to early registration in the Union.

All colleges have provided the State News with advising and pre-enrollment schedules, and these will be printed in a series this week.

The College of Engineering has announced that its students are being notified by their academic advisors concerning the time they are to report for advising. Advising began for that college Jan. 18.

Students in Home Economics will receive a letter from their advisors concerning pre-registration. Advisors' schedules will be posted in the lower hall of Home Economics Building. Students should make appointments with their advisors at their convenience.

The College of Natural Science student-academic conference will take place Feb. 8 to 18. On Feb. 2, each academic advisor will post the times he is available for advising on his office door. Students must reserve a time to meet with their advisors as soon as possible.

The College of Agriculture announced its advising schedules as follows:

- Agr. Econ., Feb. 11 thru 18.
- Agr. Ed. Freshman, Feb. 8 or 15, call 355-1835 for appointment.
- Agr. Ed. Sophomores, Feb. 10 at 4 p.m., Room 238 Erickson Hall; Juniors, Feb. 8 or 12, call 355-1835 for appointment; Seniors, Feb. 8, 9, or 11, call 355-1835 for appointment.
- Agr. Engineering, Feb. 1 through 5, by appointment.
- Agr. Mech., Feb. 1 through 12, by appointment.
- Agr. Plant and Soil, Students, Feb. 8, 9 and 12.
- Animal Husbandry, Feb. 9 and 10.
- Dairy, Feb. 8 and 9, 7 p.m. to 10 p.m.
- Crop Science, Feb. 9, 11, and 12, 8 a.m. to noon.
- Ext. Pers. Development, Feb. 8 through 18.
- Fisheries and Wildlife, Feb. 7, 8, 9, 7 p.m. to 10 p.m.
- Food Science, Feb. 8 through 18.

(continued on page A-6)

## Classrooms Changed

Monday, Feb. 1, 1965

The State News will run a daily list of classroom changes during Farmers Week. Students should report to classes at these new locations unless other arrangements have been made by their instructors. Classes not listed will be held at the usual locations.

Dept. & Course No.	From	To
AE 320-1	115 AE	20 CEM
AE 403-1	107C AE	121 AE
AE 471-1	102 AE	211 CEM
AFA 391-1ec	116 AE	138 CEM
FSC 830-1	119 AE	309 EBH

### Building Index

AE Agricultural Engineering Bldg.	CRD Conrad Hall	KCL Kadzie Chemical Laboratory
AGH Agricultural Hall	CEM Chemistry	MCD McDonnell Halls
AKR Akers Halls	EB Engineering Building	NS Natural Science Building
ANH Anthony Hall	EBH Bessey Hall	OH Olds Hall
BDY Brody Hall	FB Forestry Building	PM Physics-Mathematics Building
BH Berkey Hall	GH Gilmer Hall	ST Student Union
CC Computer Center	HE Horticulture Building	
	HT Home Economics Building	

## EDITORIALS

## Our Stake In East Lansing

A letter to the editor in Thursday's State News--undoubtedly written under an assumed name--suggests that MSU students have no rightful concern with problems of racial discrimination in East Lansing.

The East Lansing City Clerk has no record of the "Mrs. Joanne Richland" who signed the letter. However, the unknown writer undeniably reflects the views of many East Lansing property owners in maintaining that students have no right to take part in civic activities if they do not pay property taxes.

The argument is a preposterous one on several counts.

In the first place, the vast majority of students made their home here for nine months of the year. They are a part of the community and their lives are affected by community problems.

The thousands of students who live off-campus each year are deeply touched by the existence of racial discrimination in housing.

Many Negroes and foreign students would be surprised to know that "anyone" can buy or rent a home in East Lansing.

Several MSU students have testified in public before the East Lansing Human Relations Commission on the racial discrimination they have encountered in looking for apartments.

These students are not "outside agitators" (a favorite phrase used to describe those who bring

attention to problems which people don't like to think about). Students are just plain, ordinary people who need a place to live.

Furthermore, everyone who lives in the City of East Lansing pays property taxes. Students don't pay them directly to the City--they pay them to landlords in the form of rent.

Many students have children who attend East Lansing schools. Others worship at East Lansing churches. All buy merchandise at East Lansing stores.

Students have a stake in every aspect of life in this community.

If East Lansing's water were contaminated, students would get just as sick from the bacteria as bona fide property owners.

Racial discrimination is a more serious community illness than contaminated water, and it is just as sickening to all whom it touches.

Students obviously have a vital stake in community affairs. However, they would still have the right to oppose racial discrimination in East Lansing if they lived a thousand miles from here.

Even if no student had ever crossed Grand River Avenue, he would still have a right and a duty as an American citizen to speak out against injustice wherever he found it.

We are Americans first, students second. We suggest that being an American also takes precedent over being a property owner.

## Silence Aids Cheating

What is the older generation coming to?

Embittered parents of cadets involved in mass cheating on examinations at the Air Force Academy have called the academy's honor code "impractical" and sadistic.

Why? Because the code demands that cadets notify their superiors if they know that cheating is going on.

Said one angry parent: "For most of us, to snitch on our playmates has always been regarded as something as bad as cheating."

Air Force sources have indicated that more than 300 cadets may resign rather than face court martial. The majority of the cadets did not cheat themselves, but simply failed to notify their superiors that hundreds of others had access to a stolen copy of a final examination paper.

A conspiracy of silence to cover up mass cheating is not morally justifiable.

The hundreds of cadets who cheated caused great harm to

themselves, the Air Force Academy and the image of the United States abroad.

The other cadets who kept silent must have known what the results of the cheating would be if it came to light--as most dishonest enterprises do.

Hoodlums profess a code which prevents "squealing" when something dishonest comes to their attention.

It is astonishing that the parents of the Air Force cadets don't understand that the person who silently complies with evil becomes a tacit participant.

## Letter Policy

The State News welcomes all letters to the editors from any members of the MSU community or non-University readers.

Letters should be no longer than 300 words and typed double spaced if possible. Longer letters may be considered for publication as "Point of View" columns. Correspondents should include name and, if applicable, University standing (Detroit freshman, professor of forestry, etc). This information may be withheld upon request, but no unsigned letters will be printed.

The State News reserves the right to select and edit all letters to fit space requirements.

## WRESTLING CLUB



It Looks Like Marcia's Getting Pinned!

## Letters To The Editor

## 'Liberalism' Can Be Traced To Zen Buddhism Of Ancient India

To the Editor:

For some time now current political events have scared me. Each time I pick up the newspaper I find something new, and something more horrifying than yesterday.

I do not know if you can spot the trend--this, of course, all depends on your ability to abstract--but nevertheless, it scares me. The trend I am talking about is not new; in fact, its roots are ancient.

The liberals in this country like to accuse the conservatives of wanting to go back to the 19th century, and they are right, but what they neglect to mention is that their ideal can be traced back to the Zen Buddhist philosophy of ancient India, if one examines their fundamentals closely enough.

What exists today is an unhealthy collectivist-mystic-socialist alliance that was born out of the necessity of men, afraid of reality, to try and cheat it. This, of course, cannot be done, and their fate will be the same as the man who thought he could leap out of a fifth story window and fall up.

It is collectivist, because in order to accomplish their "goal", they must assimilate the individual into an angry mob, so wrapped up in their emotions that they have forgotten how to think.

It is mystic, because in order to convince the mob of their power to "fall up", they must first convince them of the futility of reason. Faith, they contend, can move mountains.

And it is socialist because this is the system that allows them the use of force, a weapon which they could not survive without.

Look around. It can be seen everywhere.

Collectivists like Erich Fromm contend that "We are One", and Lyndon Johnson pleads for "unity".

Mystics, dressed in the garb of college professors, proclaim that reason is good, but only to a point. (Perhaps they mean the point on their useless heads).

Socialists, like Bertrand Russell, tell you to give up your freedom, your rights, and your honor, because of some higher "ideal" which he has planned. And, oh yes, watch out for his revolver in case you disagree with him.

I see these things and they scare me. I realize that this is not the time and I am not the person to cause a complete reversal in attitudes toward philosophy, politics and ethics.

But if for five seconds you might stare at a blank wall and seriously reconsider your deepest beliefs, disregarding emotions like pity, mercy, guilt, and love, keeping only one idea in mind: justice, then this letter would not have been written in vain.

Ask yourself: why should some men be sacrificed to others? What gives a politician, who cares about as much for me as a man does for a microbe, the right to force me to surrender my life for what he considers a "noble ideal"?

In short, why should my life--my only life--be at the whim of anyone but myself?

I, and many others like me, demand that we be treated as MEN.

We demand, not security, not government paternalism, not even peace and prosperity, but freedom!

Dennis Chase

## Students Have Proper Place In E.L. Affairs

To the Editor:

The person who signed her name Mrs. Joanne Richland in a letter of Jan. 28, attacking open housing, states that:

"College students have no place in local affairs. The professors are supposed to be training these young adults for the future leadership of this country."

I would like to point out to the writer that East Lansing is our local area for nine months of the year. Affairs of East Lansing are properly our affairs. An article in the State News on Jan. 26 points out that MSU students spend more than \$29 million in the Lansing area a year. Students are an important segment of the East Lansing area, and should have a right to voice their views.

Secondly, at what point in life does a student suddenly become a "leader of his country"? A person does not become a leader when, and only when, he is a college graduate. A person can demonstrate leadership and initiative at any point in his life.

Shaw grill has a quotation on its wall: "All that is necessary for the triumph of evil is that good men do nothing." If we are truly concerned about our community, as we should be, we cannot keep silent.

Jack A. Buege  
Sparta Senior

## Traffic Courtesy

To the Editor:

Just think, had Richard O. Bernitt's Traffic Courtesy Month included the last week of January perhaps the hit-and-run driver who damaged my car in the Erickson Hall parking lot may have turned him or herself in for a free theater pass. It would seem that common courtesy is a hard thing to come by as this is the second time in two years that an automobile of mine has been damaged by a hit-and-run driver in a University parking lot. No, crime doesn't pay, but in this case it's the injured party who pays with inconvenience, aggravation and hard cash. The hit-and-run drivers of the parking lots, and I expect there are a number of them, lack courtesy and no promise of a free theater pass can make up for any other uncourteous motorist.

Allen Park Junior  
John Van Epps  
Spring Lake Senior

## Point Of View

## Ohio Memories Of 3.2 Beer

By Harry Newell

Editor's Note: Harry Newell is a freshman from Warren, Ohio.

It is my feeling that Michigan's law forbidding possession and consumption of all alcoholic beverages by persons under 21 years of age is unenforceable and defeats its own purpose, if that purpose be to curtail teenage drinking and drunk driving. I believe that a more realistic approach would be to permit persons 18 years of age and older to drink beer of 3.2 per cent alcohol content and forbid other alcoholic beverages to those under 21. I am from Ohio, where I have seen this type of legislation to be very successful.

First, it is successful in preventing teenagers from drinking "hard" liquor. I believe that anyone who is acquainted with the situation in Michigan will agree that teenagers here are able to get liquor if they are willing to risk the consequences of being caught in its possession.

Suppressive legislation only serves to increase the teenager's curiosity and hence his willingness to take the risk. The record of arrests in this area in recent weeks seems to vindicate my reasoning. If the arrest and prosecution for the consumption of high-proof liquor is the same as that for the much less intoxicating "three-two" beer, the person who risks arrest will get "hard" liquor.

Second, it is successful in reducing drunkenness and drunken driving for the simple reason that most persons feel physically very uncomfortable if they consume enough "three-two" beer to become inebriated to the degree that they will be obstreperous or will have reactions dulled to the point where they would be dangerous drivers. However, the effects of consuming a comfortable amount of "three-two" beer are enough to make one "feel sociable" (as a cocktail would) and to satisfy one's curiosity about the effects of alcohol. The young person may remain curious about the effects of "hard" liquor, but he will be much more willing to wait until he is 21 to find out, than if he were restricted from all alcoholic beverages.

The framers of Michigan's present law must have wished for a prohibition among persons under 21 as a means to keep "impressionable youth" from being exposed to the evils of intoxicating liquors before they are old enough to make sagacious judgments as to the use of liquor. Clearly, however, this level of wisdom and responsibility is not reached suddenly in the hour before a person reaches the arbitrarily chosen 21st year of his life. Experimentation is necessary to true conclusion, and surely it is better to have a young person begin to experiment toward his conclusions about liquor with "three-two" beer.

## People Of All Ages Shocked At Changes In Sexual Codes

To the Editor:

In regard to the letter published Jan. 18, concerning certain "smutty" ideas taught in this fine institution of learning, I am indeed overjoyed to learn our virgin minded, unnamed letter writer is attending MSU for an education, but just what kind of an education is he or she looking for?

A truly educated person is aware of, and accepts, sex as a necessary part of this mixed up world, and should seek an understanding of it as well as a knowledge of the sciences and humanities.

In this modern society, I'm very much surprised that such a medieval philosophy continues to persist. The basic ideals of society undergo ceaseless change; the role of the college is to prepare us for this society.

In truth, the Victorian's were shocked, even the American renaissance authors were shocked by changes in the sexual code. But they were all left by the wayside in the persistent loosening and tightening of moral codes. I might cite the seeming wild

ideals of the 1920's in this country. They shocked, and were damned (oops--sorry, on pure-hearted one) by the nation's moral minded populace. But those ideals are, in general, accepted by even the strictest followers of modern sexual morality.

It might also be noted that our professors are under the seemingly impossible task of driving a little knowledge into us blockheads. They must resort to a media sex, that is both familiar and attention-getting.

I'd like to refer to the human mind's fantastic capability of remembering a sexy joke. I dare say that the students remember and enjoy the more spicy lectures rather than the cut and dried monotone recitations common to some departments.

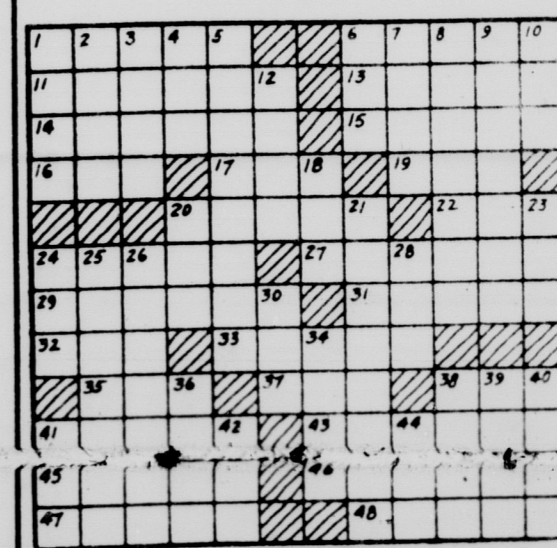
I would like to add that if that published letter of vague, indefinite terms and run-on sentences is an example of our morals-hungry unknown's education, he (or she) might do well to return to sixth grade where he would be more at home.

Dave Verbeke  
Grosse Pointe Freshman

## CROSSWORD PUZZLE

## ACROSS

1. Having wings
6. Hamlet, Italy
11. Night garment
13. Unhappy form of animal life
14. Captivate
15. Large pill
16. E. Ind. weight
17. Four-hand
19. Affirmative vine
22. Clip
24. Grandma's brooch
27. Obtain
29. Forewarners
31. Fast car
32. Ashen
33. The Devil
35. Graph
37. Received
38. Deserv
41. Minute openings
43. Equestrian
45. Perfect
46. Confection
47. Insulting cant
48. Hangman's rope
- DOWN
1. Simians
2. Country path
3. Slightly open
4. Cap
5. Feelings
6. Engineer's shelter
7. City in Fukien prov. in China
8. Containing selenium
9. Calamitous
10. Vegas
12. Prima donna's specialty
18. Terminate
20. Famed southerner
21. Carbonation
23. Ice each
24. Brook sary
25. With ice cream
26. Slender tower
28. Hank of twine
30. Hang down
34. Ripped
36. Just used for fuel
38. Utah State flower
39. Centuries
40. Old Indian house
41. Apple seed
42. Foxes
44. Pair



MICHIGAN STATE UNIVERSITY

## STATE NEWS

Member Associated Press, United Press International, Inland Daily Press Association, Associated Collegiate Press, Michigan Press Association.

Published every class day throughout fall, winter and spring terms and twice weekly summer term by the students of Michigan State University.

Editorial and business offices at 341 Student Services Building, Michigan State University, East Lansing, Michigan.

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News Advisor ..... Richard E. Hansen  
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## World M at a

Pol

WASHINGTON--Soviet officials believe that U.S. officials believe that Russia has a wider policy line may be

## Appalo

WASHINGTON--The Senate expects the highest-palatial aid bill. On the other side, the committee presses a bill, another it have list. While the adm of these domestic in foreign affa experience than he

MIAMI, Fla.--Some in the C for the consider it to get pr "The Congo fight exile here," said C nation. He added: "Under soon as conditions selves."

ANGOLA, La. ... Sundry.

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PHILADELPHIA, Neshoba County Gr up the case of the s Circuit Judge O. eided on any change he concurred with Johnson said Sat if the FBI would t sent it to the jury

ALTA, Utah--service started high Wasatch M It was the fin lated by heavy s An estimated troner--were r ter 25 miles l closed last Sund

WEST PALM BE Associated Press for more than a Cooper was tak Pneumonia develop and he died shortly

ADOIS ABAI ordered the p down and fle both II. The quee to an African s up. Even the h hazard in the

(continued from made the first t animation papers Springs school la scholastic benefi five or six clo The closely-g touched off the ch paper said, I decided to comm scheme when ex rolled around ag ben. Prices for the edly were in the But two classm buy the questio by the cadet hono his exploits to Ac

## INSTANT CLEANING

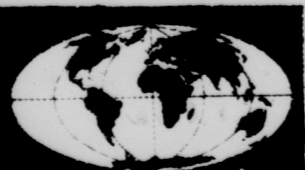
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## World News at a Glance



From our Wire Services

### Political Role May Grow

WASHINGTON—Soviet Russia's new leaders evidently are inclined to play a bigger role in the politics of conflict in Southeast Asia, striking out between the policies of Red China and the United States, U.S. officials believe that Soviet Premier Alexei Kosygin will be prepared to make strong defense commitments to Communist North Viet Nam when he visits there shortly.

At the same time Washington authorities are equally convinced that Russia has nothing to gain, and perhaps much to lose, from promoting a wider war in Viet Nam. So one aim of the Kremlin's new policy line may be to exercise restraint on the struggle.

### Appalachia Bill Vote Expected

WASHINGTON—Congress swings into its second month with the Senate expected to vote today on one of the administration's highest-priority programs—the \$1.09-billion Appalachia aid bill.

On the other side of Capitol Hill, a House education committee presses its hearings into the \$1.25-billion school-aid bill, another item at the top of President Johnson's must-have list.

While the administration's prospects appear bright on both of these domestic issues, Johnson faces a serious challenge in foreign affairs—a field in which he has had far less experience than he enjoys in the domestic area.

### Cubans Fight In Congo

MIAMI, Fla.—Some 300 Cuban exiles are reported fighting rebels in the Congo for the government of Premier Moise Tshombe. They consider it target practice for Fidel Castro.

"The Congo fighting gives us steady training, which we lack in exile here," said Cesar Llanes, back from service in the African nation.

He added: "Under terms of the contract, all will be released as soon as conditions favorable for action against Castro present themselves."

### Convicts Reach Milestone

ANGOLA, La.—Two Negroes who have lingered on Louisiana's death row since 1953 reached a grim prison milestone Sunday.

Edgar Labat, 42, and Clifton Alton Poret, 36, co-defendants in a rape conviction, stretched their time awaiting the executioner to a modern record.

"It was just another routine Sunday," said Acting Warden Henry L. Hanchey. "They stayed in their cells."

Nine staves of execution—one of them three hours before they were to die in the electric chair—have kept them alive 11 years 10 months one week and one day.

### No Action Likely On Slayings

PHILADELPHIA, Miss.—It appeared unlikely Sunday that the Neshoba County Grand Jury convening today would be asked to take up the case of the slaying of three civil rights workers.

Circuit Judge O.H. Barnett, who will preside, said he hadn't decided on any charge to the jury in connection with the case, but that he concurred with a statement about it by Dist. Atty. Bill Johnson.

Johnson said Saturday he would ask the jury for immediate action if the FBI would turn over its evidence in the case in time to present it to the jury for study on opening day.

### Vacationers Removed

ALTA, Utah.—The weather cleared and a Snow Cat shuttle service started taking club-revered vacationers out of this high Wasatch Mountain ski-resort area Sunday.

It was the first real skiing for many since Alta was isolated by heavy snows and avalanches a week ago.

An estimated 300 persons—about 200 of them ski vacationers—were marooned at this 8,000-foot-high skiing center 25 miles from Salt Lake City when the highway was closed last Sunday evening.

### AP Manager Dies

WEST PALM BEACH, Fla.—Kent Cooper, general manager of the Associated Press for many years and a giant of world journalism for more than a quarter-century, died early Sunday. He was 84.

Cooper was taken to Good Samaritan Hospital here on Jan. 22. Pneumonia developed, his condition became progressively worse and he died shortly after midnight.

### Lions Get Cleaning

ADDIS ABABA, Ethiopia—Emperor Haile Selassie Sunday ordered the pet lions clobbered in his palace gardens hosed down and flea-powdered to welcome Britain's Queen Elizabeth II.

The queen arrives here Monday on a state visit—her first to an African state—and the whole capital is being scrubbed up. Even the herds of goats and donkeys, a normal traffic hazard in the main streets, are being driven out of town.

## Investigation

(Continued from page A-1)

made the first theft of final examination papers at the Colorado Springs school last May for the scholastic benefit of himself and five or six close associates.

The closely-guarded venture touched off the cheating scandal, the paper said, after the cadet decided to commercialize on the scheme when examination time rolled around again last December. Prices for the tests reportedly were in the \$5-\$10 range.

But two classmates refused to buy the questions and, as reported by the cadet honor code, required his exploits to Academy officials.

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## Journalist Discusses Viet War

# U.S. 'Piddling Effort' Seen

By CHARLES C. WELLS  
State News Campus Editor

The United States is losing the war in Viet Nam because it hasn't really tried to win.

That is what Dickey Chapelle, foreign correspondent and photographer, told 700 Michigan publishers Saturday night at the Michigan Press Association's 24th annual "All-Michigan" Dinner.

"America has made a piddling effort to win," she said. "Our government and even the average citizen hasn't admitted war exists there."

She indicated that it is imperative that the Viet Cong Communists be defeated in Viet Nam. If Viet Nam is lost to the Communists, then all of Southeast Asia will be lost. In a few short years, the Communists will be advancing into the Philippines, she said.

Out of the 26,000 Americans in Viet Nam, only about 3,000 to 5,000 are actually working actively with the Vietnamese units to end Communist infiltration, she estimated. This must be multiplied five times if the U.S. is to achieve results.

Contrary to the idea that the Vietnamese people do not have the will to beat the Viet Cong, she said:

"They definitely have the will to win. If their troops falter it is

because of bad platoon leadership, not because they don't have the will to win. Since the U.S. is in charge of advising, we are responsible for the bad platoon leadership."

She labelled as "hogwash" statements that Asians will not fight communism.

"The United States wouldn't be in there today if Asians lacked the will to fight—the area would already be Communist," she added.

Vietnamese losses are great enough to discourage the rest of the fighters, she said, citing the fact that more than 100,000 Vietnamese have been killed in action. About 300 U.S. servicemen have died in action.

"If we are to win there must be a total effort both in the field and back at home," she said. "This is how America has been successful in both world wars."

"U.S. forces are hamstrung by

diplomatic policy which will not allow them to attack Viet Cong raiders from Cambodia," she said. "We received reports there were two battalions of infantry across the border in Cambodia, but we could not go there to investigate."

She said U.S. military men there have a low level of morals because of public apathy at home.

"Our men there must be reassured that we are proud they are there, that we think they are

doing something important and that we have an interest in what they do there," she said.

Miss Chapelle admitted she is prejudiced in favor of the U.S. winning the Vietnamese War. This results, she said, from her imprisonment for about 30 days during the Hungarian Revolution in 1956.

She is believed to be the only American woman ever to come back alive from a Communist "harder" prison.

"Internal improvements like new schools and medical service have changed the attitudes of the common citizen in Viet Nam, but the average farmer would be more cooperative with U.S. forces if he knew he would have better protection," she added.

"The average farmer is afraid of getting his throat slit by Viet Cong raiders if he cooperates with us," she said.

She said that U.S. lies are doing much to help in the war there. Korea operates a hospital and medical team, the Australians are providing public utility service and the Philippines are providing hospitals. She did not know British involvement because she had not been where they are.

The annual "All-Michigan" Dinner featured an entire dinner comprised of products from the State of Michigan. It also included shopping tips and services, each seat consisting of packaged products from Michigan. The Michigan Department of Agriculture sponsors the annual event.

## Towne Courier Wins Awards

The East Lansing Towne Courier earned six awards in competition at the Michigan Press Association meeting Friday and Saturday at Kelllogg Center.

The local paper took first place in its class (2,500-4,000 circulation) in general excellence. It took first place for advertising idea of the year while it was also cited by the Metro Newspaper Service "for plus business."

Other awards taken were third place for news coverage and two honorable mentions for typography and feature story of the year.

Harry Stapler, editor and publisher of the Towne Courier, said it was the first time the paper had entered competition of any kind.

## Adman Predicts Good Future For Newspapers

A New York advertising executive predicts a promising future for daily and weekly newspapers but states the urgency of adopting a single rate for local and national advertisers.

George Gribbin of the Madison Avenue firm of Young and Rubicam, Inc. addressed the 97th annual meeting of the Michigan Press Association Saturday afternoon.

Gribbin asked the editors and publishers to take steps toward a consistency in price, a uniformity of service and flexibility in business matters.

He noted that some newspapers had swung over to the single-rate system but that many had not.

"You cannot expect me, or any other advertising agency executive, to be particularly happy with a rate structure that, in effect, costs us business," he said.

## 30 Boys Enjoy Weekend Camp

Thirty boys spent last weekend at camp because of the donations of over 7,000 pounds of paper in the recent campus paper drive. The paper, collected by over 200 students, raised \$285 for the trip.

Bob Raschin, Watertown, Mass., senior, and Steve Plavnick, Oak Park freshmen, who work at the Lansing YMCA, spent the weekend at camp Pa-Wa-Pi near Williamston with the campers.

The boys are already planning a similar outing for next year.

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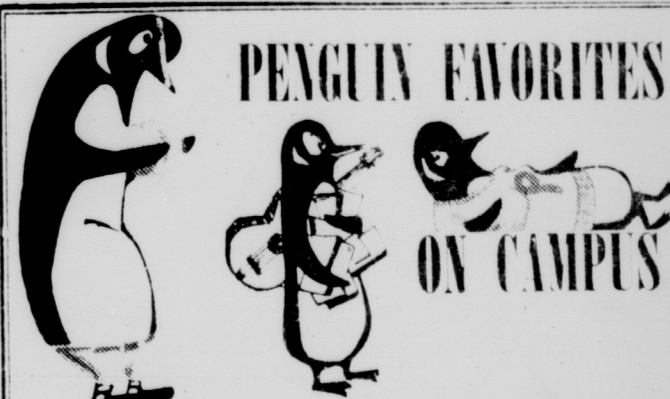
## Physics Talk Set Tonight

O. Lyle Tiffany, chief scientist at Ford's Corp., Ann Arbor, will speak before the AAPT Physics Club tonight at 7:30 in 221 Physics-Main.

He will discuss "Possible Missions for a Lunar Laboratory" at the open meeting.

Since receiving his Ph. D. in physics from the University of Michigan in 1950, Tiffany has published numerous articles and worked on many space projects.

He has been head of the radar systems group at Ford, a development responsible for development of bistatic early warning radar devices and the planning of airborne weather radars, since 1958.



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20	With ice
21	cream
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37	Pair

## SMASH BUCKEYES, 87-54

## Sophs Pace Trackmen In Ohio Rout

By MIKE BROOKS  
State News Sports Writer

COLUMBUS, Ohio--Oldtimers were forced to yield the right of way Saturday as State's sophomore trackmen went flying by. From the start of the mile run until a record-breaking high jump two hours later, the sophomores dominated the Spartans' 2-4 bombing of Ohio State.

Coach Fran Dietrich was quick to point out with enthusiasm that the first-year varsity men accounted for 67 points and eight first-place finishes.

The one Spartan victory by a veteran came when defending indoor conference champion Jim Garbutt captured the broad jump.

After the third event, the Spartans held a comfortable 23-4 lead on the strength of sweeps of the mile run and high hurdles, and a first in the quarter-mile.

The margin of victory was now in question.

In the closing minutes of the

meet, the crowd's attention was centered on the high jump where a lone Spartan remained. Mike Bowers received the loudest ovation from his teammates when on his second attempt he left a considerable amount of daylight between himself and the 6'8" bar.

Bowers' leap, which came in his first varsity competition, broke the old record of 6'6 1/4" set by Don Hilmer in 1955, and tied the French Fieldhouse mark established last year by Michigan's Al Ammerman.

Bowers' only miss came on his first attempt at the record height. His jump was a complete shock in view of the fact that he had been a mere 6'4" in his first jump.

State's slam of the mile was led by Keith Coates, who patiently followed a sleepy pace for the first three quarters, and then blasted the last quarter to win in the good early-season time of 4:17. Mike Kaines and Rick

Zemper were second and third in front of Ohio State's Dave Smith, winner in last year's dual meet.

In the quarter-mile Dashwell Campbell came from far back in the last 200 yards to edge Ohio State veteran Elwin Sellers in 49.5.

The trio of Washington, Steele and Jones was exceptionally sharp in sweeping the 70-yard high and low hurdles, as was the 60-yard threesome of Summers, Garrett and Sinclair.

Washington's time was 8.7 in the highs and 8.0 in the lows and Summers captured the 60 in 6.4.

In the next to last event of the day, the Spartan two-milers gave State its fifth slam of the day. Sophomore George Balthrop took the lead from teammate Paul McCollum with a quarter-mile to go and zipped home in 9:32.2. Jack Arnie completed the Spartan victory.

Perhaps the wildest race of the day was the 880-yard run. Keith Coates is used to running his first quarter in the vicinity of 1:55, but after a tough mile, he decided to start out at a relaxing pace.

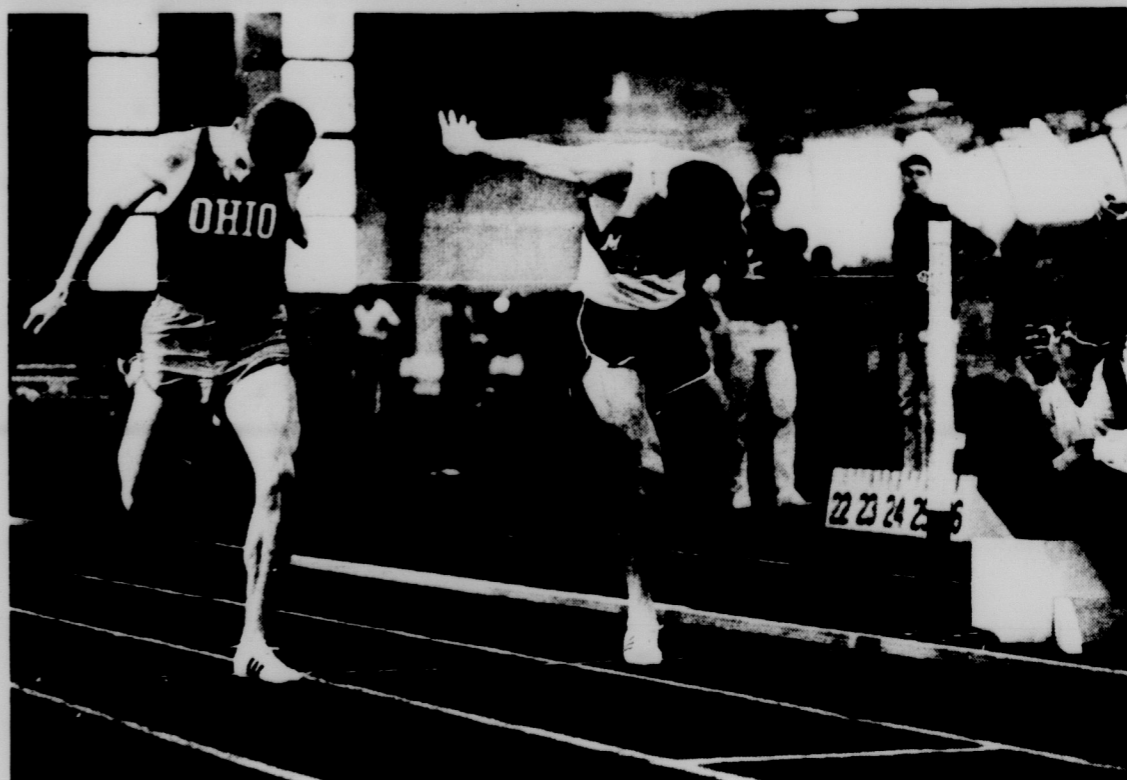
Instead of taking over the lead, Ohio State's Mike Alexander, one of the best in the league, decided to stay behind Coates, a bad mistake. When Coates heard the timer announce the first quarter as 1:05, he took off, leaving Alexander in his wake.

The winning time of 2:00.6 will probably stand throughout the year as the slowest Big Ten half-mile victory.



**BOWERS BOUNDS**--Sophomore Jim Bowers leaps to a Spartan high jump record of 6-8 and a first place finish, Saturday, as the MSU track team turned back Ohio State, 87-54.

Photo by Dave Jones of the Ohio State Lantern



**DASHWELL DASHES WELL**--State's Dashwell Campbell edges Ohio State's Dave Smith for the blue ribbon in the quarter mile.

Photo by Dave Jones of the Ohio State Lantern

Act 5 Of 'Spartan Capers':  
Cagers Blow It Again, 77-75

By DUANE LANCASTER  
State News Sports Writer

EVANSTON, Ill.--It's too bad Michigan State's basketball team doesn't play horseshoes.

Coach Forddy Anderson's Spartans came close again but a basket by Northwestern forward Ron Koslicki with six seconds remaining pulled the Wildcats to a 77-75 victory before 4,200 fans here Saturday.

Only seven days ago, the same Northwestern squad scored with six seconds to go and nipped the Spartans 76-75 in East Lansing.

In between the two close losses to Northwestern, State dropped a 103-95 overtime squeaker to number-two ranked University of Michigan.

Like the previous close defeats, the Spartans fought an uphill battle only to see victory go to their opponents in the final seconds.

The loss left State alone in the Big Ten cellar with an 0-5 league record and 4-10 for the season.

Two of the defeats have been by one point and another two by just two points.

The NEWS In  
**SPORTS**

Northwestern is now 2-2 in the conference, both wins coming at the expense of the Spartans, and 6-8 overall.

Capt. Marcus Sanders topped all scorers with a 28 point performance. The 6-3 guard made ten of 13 free throws in the process. Center Bill Curtis finished with 20 and Stan Washington had 16.

Center Jim Pitts edged Koslicki for Wildcat scoring honors 22-21 and guard Jim Bruns dropped in 17.

State jumped to an early 5-0 advantage before Northwestern scored nine straight points and then moved to commanding lead, twice holding 14 point margins in the first half.

The Spartans tallied the last

dozen points of the half to cut the score to 42-40 at intermission. Washington knotted the score 55-55 midway through the second stanza and put the Spartans in the lead 59-57 moments later. It was the first time State was in front since the opening minutes.

Immediately after Koslicki's winning basket, State called time out and was successful in getting off the game's last shot. But the 35-footer by Sanders bounded off the backboard as the game ended.

The ball game belonged pretty much to Northwestern until the final minutes when the score was tied nine times and the lead changed hands five times.

The Spartans tied the score 42-42 on two free throws by sophomore forward Ted Crary in the opening seconds of the second half but the Wildcats quickly recaptured the lead and pulled away to enjoy a comfortable margin for most of the second half.

## 'S' Fencers Foil Fenn, Wayne

By PHIL LOOMIS  
State News Sports Writer

State's fencing team came back from Detroit after their first outing Saturday with wins over Wayne State and Fenn College.

With five Spartans "getting their feet wet" for the first time in intercollegiate meets, State scored a 16-11 win over Wayne State and followed with a 19-8 win over Fenn College.

Against Wayne State, the fencers won in foil, 5-4, epee 5-4, and sabre 6-3.

Sophomore T.S. Givens and senior Bryan Kutchins were each 2-1 in foil, while senior Steve Vore was 1-1.

In epee, senior captain Joel Berlin and junior Bill Siebert were 2-1, and junior Don Lund was 1-2.

Juniors Mel Laska and Mark Haskell and senior John Cooper all posted 2-1 marks in sabre.

Wayne won with a 2-1 mark and Don Witt with a 3-0 score

were tops for Wayne State in epee. Don Bendure was their best sabre fencer with a 3-0 mark.

In the win over Fenn College, State took foil 5-1, epee 6-3, and sabre 5-4.

Givens, Kutchins, and sophomore Jim Fordyce were unbeaten in foil, scoring 3-0, 2-0, and 1-0 marks, respectively. Vore was 2-1.

Lund's 3-0 mark was tops in epee. Sophomore John Mick with one point and another two by just two points.

(continued on page A-5)

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Dale Anderson  
B.A., Washington University

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It's been said that misery loves company. If the adage holds true, Michigan State's basketball team have just lost a loved one.

The Spartans are now alone in the Big Ten Cellar after dropping a 77-75 contest to Northwestern Saturday while Ohio State vacated the bottom spot they had shared with State for four weeks by bombing Wisconsin 98-86.

MSU's conference record fell to 0-5 and the Buckeyes leaped to seventh place with their first win of the season after losing three.

Wisconsin dipped to an eighth place tie with Purdue. Both teams are 1-4 in the Big Ten.

Mighty Michigan put the Boilermakers in the eighth place tie with a 98-81 victory which upped their league-leading mark to 5-0.



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# Gymnasts Topple OSU, 75-37

By ROBERTA YAFIE  
State News Sports Writer

The Spartan gymnasts had a high time of it Saturday as they crushed Ohio State, 75-37, and evened their season standings to 2-2.

Sporting a 2-1 Big Ten record, State kept in contention for the conference crown and kept the Buckeyes from claiming their first win.

The top-sided score was due to shining performances by the team as a whole. The most sparkling were in horizontal bar competition, one of the two events, along with parallel bars, where the Spartans claimed the three top spots.

Jim Curzi combined with Dave Price and Ted Wilson to take the high bar, registering a 9.85, the highest individual performance of the meet and the best showing for both Curzi and the Spartans to date. Price and Wilson tied for second honors with scores of 9.55.

"The crowd probably witnessed the finest performances by a trio of gymnasts that they've seen anywhere in quite some time," Coach George Szpula said, ab-

excellent. The routines were better than anytime this year."

The second Spartan sweep was in parallel bars. Curzi won the event, 9.6, while Price and Tom Hurt took the next two places with respective scores of 9.1 and 8.35.

From the onset, the meet was "all State," as the gymnasts cleaned up the top spots in all events. It started with Ron Viciously pleased with the results in horizontal bar. "All were

Aure's victory in floor exercise and ran right through the afternoon, a routine that Szpula hopes will become a habit.

He was extremely pleased with Steve Wells, who gave State its first trampoline win to date, scoring 8.9. He also noted Marty Rouch's performance, citing his consistency in the event.

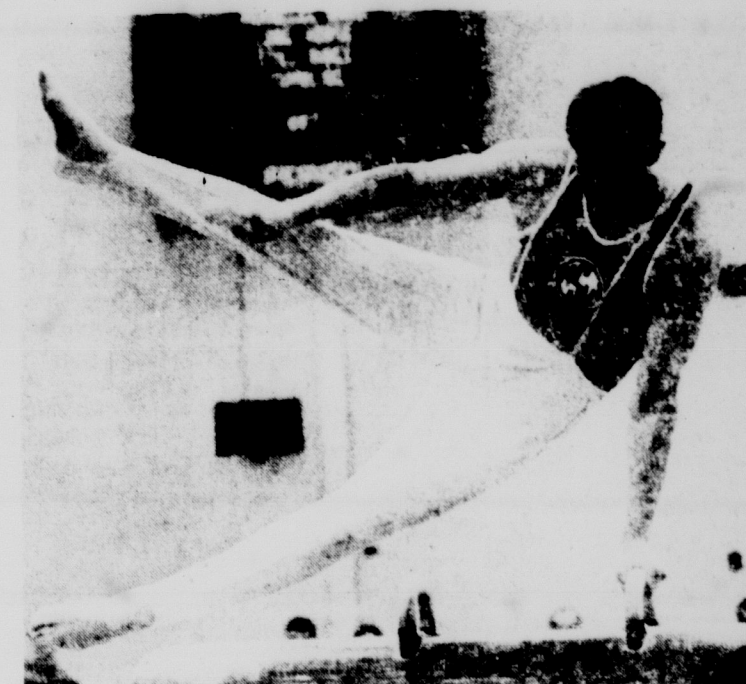
Along with his opening win, Aure registered 9.25 to take the horse vault. Jay Sroute and Tom

Blackstone, two consistent performers for the Buckeyes in their losing effort, tied for second, the best they could manage all afternoon.

Despite Ted Wilson's 8.8 win in rings, the event was generally a weak one for State. The best that the Spartans could manage was a fourth place by Curzi, followed by Dave Arnold.

The same thing went for side horse, where Jim Young's 6.9 behind Curzi was the best the Spartans could manage. The Buckeyes' scores were equally low, but that didn't make up for the absence of MSU men on the scoresheet.

"Everyone has to get up to a little higher caliber," Szpula remarked. "We're still shaky in some events, particularly floor exercise and side horse."



BEST FOOT FORWARD--It's hard to tell which one is favored as Jim Curzi performs on the side horse, on his way to his third individual win of the afternoon. Photo by Bruce Matasick

WRAPPED UP IN HIS WORK--Capping off a one-two-three finish in horizontal bar for State is Jim Curzi, whose winning 9.85 score in the event set a personal and team high as the Spartans knocked off Ohio State, 75-37. Photo by Dave Sykes

## Wrestlers Defy Bitter Cold; Make It Hot For Purdue, 18-6

By JOE MITCH  
State News Sports Writer

Lafayette, Ind.--Not even the bitter cold could chill the spirits of State's wrestling team here this weekend.

Despite a drifty fieldhouse and a freezing eight hour bus ride, the Spartan grapplers revealed they had all the potential of a Florida heat wave as they strong-armed the University of Purdue, 18-6, Saturday afternoon.

"I thought the chilly fieldhouse air would hurt our chances," said Spartan coach Grady Pennington as he reflected upon Saturday's performance. "But I think Purdue was more affected. This definitely was not our best performance of the year, although we wrestled as well as can be expected under such circumstances."

To add to this predicament, State could not use the visiting locker room, as it was occupied by the University of Michigan, which was competing in basketball game there at the time.

By capturing six of eight mat-

ches, the Green and White matmen remained undefeated for the season with a 5-0-1 record.

Early in the meet it appeared as if the cold would work its affects on the Spartans, as they dropped the first two of three matches.

Gary Smith at 123 pounds lost his bid to remain undefeated in conference action as he dropped a 4-3 decision to Jim Kato.

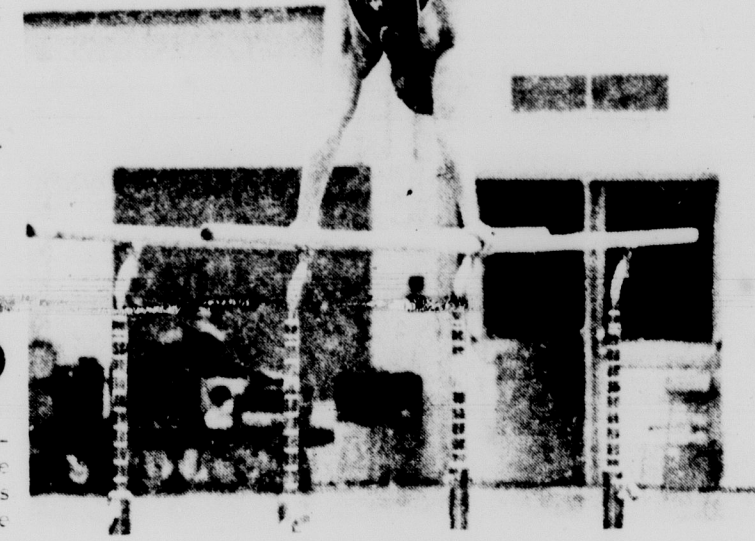
The Spartans got on the winning trail in the 150-pound division as sophomore Don Behm scored an impressive 5-0 victory over Moe Trail. Trail, who gained a second place finish in the Big Ten last year, was unbeaten in two years of dual competition.

The most surprising defeat for State was Joe Ganz's loss to Dan Dooley in the 137-pound weight class. Ganz appeared to have reached his peak last Saturday with a decision over Mike Johnson, 137-pound NCAA runner-up two years ago.

"The cold probably had its affects on Joe," commented Pennington. "His loss is certainly hard to believe."

After Ganz's defeat, the Spartans settled down to capture five consecutive matches. No pins were recorded, although there were several convincing performances. Dick Cook, at 147 pounds, remained undefeated.

Sophomore heavyweight star Jeff Richards, 150, extended his unbeaten streak to three.



WIN FOR VICTORY--State's Jim Curzi executes his winning form that led him to capture the parallel bars event as the Spartans advanced their winning margin over the Buckeyes. Photo by Bruce Matasick

DOWN PURDUE, ILLINOIS

## Swimmers Fatten Record

Swimming Coach Charles McCaffree mixed 'em up this weekend, but the formula came out undisputed.

Despite the fact that many of the Spartans were swimming out of their regular events, MSU whalloped Illinois and Purdue with equal abandon to move their dual-meet record to 5-1 for the season.

State thawed out the Boilermakers at Lafayette Friday night 63-38, and then lowered the boom on the Illini in Champaign 66-38, Saturday.

The Spartans kept enacting their mastery over Illinois, with their thirteenth straight win without defeat against the Illini in dual meet competition. State is now 23-3 against Purdue in lifetime dual meet affairs.

McCaffree stuck with many of the lesser-knowns on the trip, hoping to come up with a stronger squad for the championship season.

Sophomore Ken Walsh captured two first place finishes in the individual medley and the 100 yard freestyle to pace the Spartans over Purdue. Walsh accomplished the double-victory, even though he normally swims in the middle-distance events.

Denny Hill won first place in the 200-

yard freestyle, as did Joe Buys in the 500 freestyle against the Boilermakers. Sophomore Bob Wolfe and Dan Harner took first place in the 200 backstroke and butterfly respectively, finishing out the first place winners for State was Ken Genova in the 3-meter diving and the 400 yard medley relay.

Against Illinois the Spartans switched out their swimmers around even more.

Spartan backstrokeer Gary Dille edged out fellow sprinter Jim MacMillan in the 200 yard individual medley. Dick Greitzinger, who swims the individual medley, took first place honors in the backstroke.

MacMillan lost out team-mate Mark Hunt to win the 100 yard breaststroke, and Gary Dille finished in the top spot in the 100 freestyle. Harner again won the butterfly.

A 400 yard freestyle relay team of Harner, Ken Walsh, Terry Harlan and Dille whipped the Illini to close out the Spartan first place honors.

Howie MacKosta is next in line for the swimmers. The Gophers, who pounced Iowa State 71-34 this Saturday, will move into town next Friday for a night clash. Comparatively State topped Iowa State earlier in the season 63-42.

## Intramural News

### MEN'S

#### BASKETBALL

Time Gym 1 Court 1

6 Canabell-Caribbean

7 Rinky Dinks-Shueks

8 Deuces-Brinkley

9 69'ers-Screaming Eagles

Time Gym 1 Court 2

6 Agr. Educ. Forestry (Agr. Coun.)

7 Wolverton-Wormwood

8 Windsor-Wight

9 Mi-Squad-Black Lables

Time Gym 2 Court 3

6 Rough Riders-Do-Gooders

7 Abode-Abdication

8 Sny. Cell. Dwellers-Superstition

9 Fecundity-Fern

Time Gym 2 Court 4

6 East Shaw 6-8

7 Airhouse-Arsenal

8 Woodbridge-Wolverine

9 Woodward-Wollstone

Time Gym 3 Court 5

6 Cachet-Cambridge

7 Blitzers-Bawdiers

8 Fly. Dutchman-Astronuts (SC)

9 Abington-Abundantia

Time Gym 3 Court 6

6 Worship-Worcester

7 McRae-McKinnon

8 West Shaw 10-7

9 East Shaw 1-3

### JENISON

Time Gym 1

6 Empowerment-Empyrean

7 Wisdom-Wilding

8 Trotters-Elev. 1 (SC)

9 Armst. Odors-Plow Jockies (SC)

Time Gym 2

6 Brandy-Brutus

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### WOMEN'S

#### BASKETBALL

Time Upper Gym Court 1

7 Case 1-Phillips

7:45 Dutterfield-Campbell

"Cats"

8:30 West Akers-Wonders 1

Time Upper Gym Court 2

7 Wilson "Winits"-McDonel

7:45 Case 2-East Fee

8:30 Case 3-Wonders 2

Time Lower Gym Court 1

7 Gilchrist-Williams

7:45 "Old Abbots"-West Yakeley

8:30 East Yakeley-Students Off Campus

Time Lower Gym Court 2

7 West Landon-North Campbell

7:45 Rathier-Case 4

8:30 West Mayo-East Landon

### HOCKEY

Time

9:30 Nu Chi's-McDonel

10 Wilson-Gladiators

10:30 Evans-Scolars-Armstrong

### BOWLING

Alleys 9 p.m.

1-2 Akrojon-Akhilles

3-4 Fencilir-Fecundity

5-6 Arkavit-Akcelior

## Fencers Sweep Meets

(continued from page A-4)

a 2-1 mark and Berlin's 1-2 score followed.

Haskell posted a 3-0 mark in sabre against Penn and Laska was 2-1.

Coach Charles Schmitter showed pride in his team's first outing.

"We had five boys who got their feet wet for the first time in an intercollegiate meet Saturday," he said. "Vore was 1-1, Siebert and Mock 2-1, and Chappie 0-1. Chappie lost two 5-4 bouts against Penn."

"With this showing, and the way the team has been progressing in the last two weeks, I think we should do all right in dual meets."

As far as conference meets are concerned, Schmitter was hesitant in his forecast.

"I haven't had a chance to

look at any of the other teams yet this year," he concluded.

"I won't be able to say how we'll do until we meet them."

Saturday, the Spartans will again hit the road, traveling to Champaign, Ill., where they will face last year's conference champions, Illinois and Chicago.

11.696

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## State's Up, Down Skaters Split Pair On Northern Trip

By LARRY MOGG  
State News Sports Writer

DULUTH, Minn.--Like the wind that whips through this Lake Superior outpost, the Spartan hockey team continued to alternately blow hot and cold.

In a back-to-back series with non-conference foe Minnesota-Duluth, the Spartans plodded along in their mechanical win one, lose one fashion.

State came out on the long end of a 5-4 overtime verdict Friday night. But the Bulldogs reversed the outcome in the Saturday episode rapping apart the Spartans 7-1.

The ice was now solid at 10-5 for the season. The Spartans, however, are still in the thick of things in the Western Collegiate Hockey Association play-off race. With a 3-4 league mark state is in fifth place, a half game behind Minnesota and a game and a half back of Michigan Tech and Michigan.

In the opener State slumbered through two periods of play, exhibiting about as much activity as the First National Bank on Washington's birthday. Behind 4-2, the Spartans came to life in the final period, rifting home two goals to tie things up. Sipi Doug Volmer clicked on a screen shot with 5:45 clapped in the 10 minute overtime to muzzle the Bulldogs.

Volmer had opened the scoring for the night when one of his blue line blazers beat the Bulldog goalie. Volmer's goal came with the game only 50 seconds old and with a Bulldog in the penalty box.

The Bulldogs notched four straight goals following Volmer's score to build up a cozy 4-1

margin. Three of the goals came with State short-handed.

Goalie Jerry Fisher slammed the door on Minnesota-Duluth the rest of the way, and the Spartans quickly crawled out from under the deficit.

Captain Doug Roberts scored on a power play pass from wing Tom Mikkola to make the count 4-2. At 11:22 of the final stanza Roberts earned the margin to 4-3 on a slap shot.

Two minutes later, Mike Coppola and Jim Lawrence collaborated on a corner pass to deadlock the score. Lawrence squeezed the puck between the post and the goalie.

After blowing a three goal margin the Bulldogs wound up in the doghouse on Volmer's goal.

Twenty-four seconds later Minnesota-Duluth made a quick exit from the doghouse. A third period defensive lapse, costly penalties, and a hot-hand-by goal-

ie Hill Hallbreider contributed to the Spartan downfall.

Tom Mikkola gave MSU an early 1-0 lead with a first period goal, but seven different Bulldogs registered goals, all from chance ranges.

Captain Doug Roberts scored on a power play pass from wing Tom Mikkola to make the count 4-2. At 11:22 of the final stanza Roberts earned the margin to 4-3 on a slap shot.

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These are the facts: Supposing science and technological developments had come to a halt in 1956 and yields would continue to be the same until 1975. At that rate, we would need 200 million more acres of cropland in the next decade to feed the increasing U.S. population.

But we do not have 200 million more acres to convert to agriculture. And, fortunately, we won't need them because of rising productivity on American farms.

Také Michigan, for example, L. M. Turk, director of Michigan State University's Agricultural Experiment Station, reports that the average wheat production in the state was 34 bushels per acre in the five-year period 1959-63.

By 1980, that average will likely be 48 bushels.

"Over the past 15 years, our wheat yields have increased 50 per cent," says Turk. "We expect even greater increase in the next 15 years."

The story of Michigan corn is essentially the same. The state average was 62 bushels in 1959-63. Scientists estimate the Michigan average will jump to 96 bushels by 1980.

"Production of this important crop has doubled in the past 15 years and will continue to accelerate at a rapid rate during the next decade," predicts Turk.

But crop efficiency will not be enough to keep pace with an ever increasing population. Animals, too, must become more efficient as converters of this feed into edible products. Here again, agricultural research will

# 'Going Up, Down, Up, Down'

By PHYLIS HELPER  
State News Staff Writer

This weekend certainly had its ups and downs for James H. Robinson, Detroit freshman.

Robinson spent the weekend in an East Akers elevator for a total of 65 hours. His ride began Friday afternoon at 2:45 and ended this morning at 6:45.

"I only did it because, to

my knowledge, it hadn't been done before," Robinson said. "My roommates prompted me to do it."

The idea developed when Robinson and his roommates were discussing other con-

tests recently held by other dorms in the East complex.

If a challenge arises, Robinson said that he wouldn't do it again.

"Anyone that challenges me has got to be crazy," he said.

Robinson did not leave the elevator during his ride, nor did he cut any classes. Each day his roommates brought him food and fresh clothing.

Robinson's mother, when she heard about his ride said: "I only hope he has his books with him."

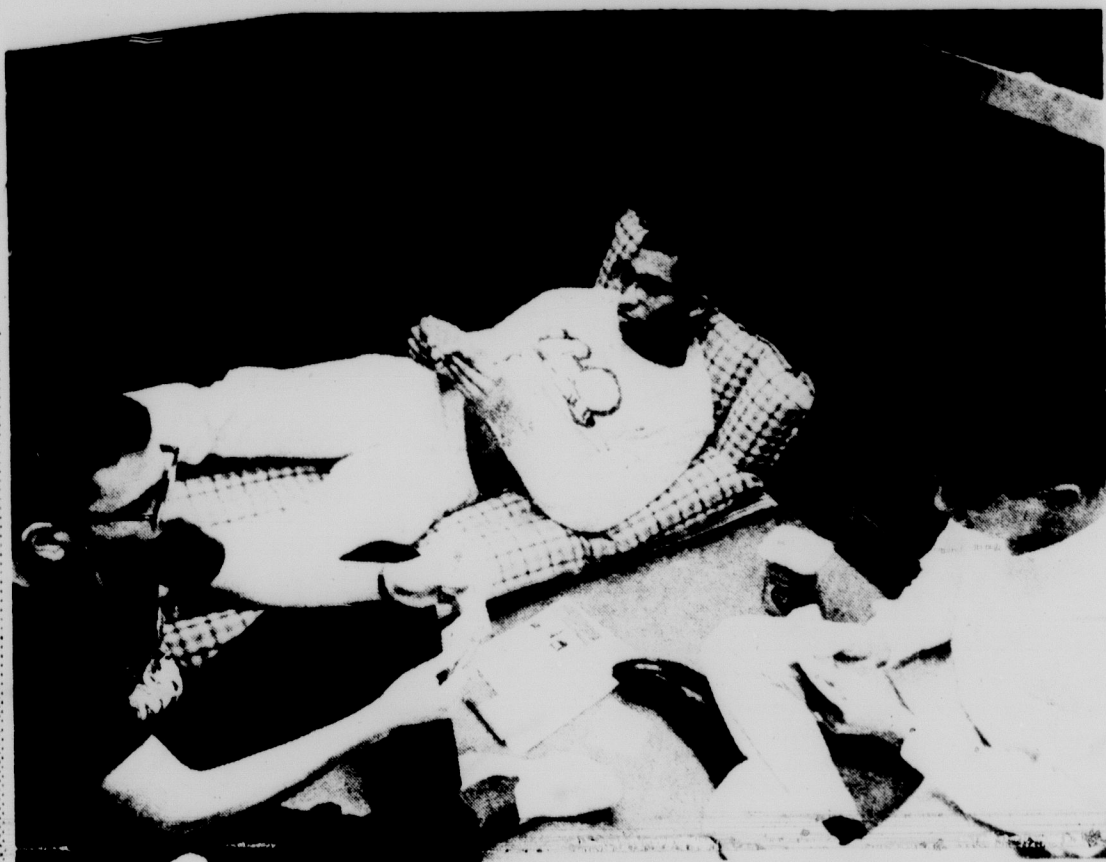
Robinson did have his books and spent most of the time studying. He also slept, played cards and talked to the boys riding to their floors.

Students in the hall have mixed opinions about the ride. One male said that he thought someone should be put in the position permanently while another said that it was nice to have someone to talk to.

John D. Bacheller, head resident advisor of East Akers, said:

"This type of contest is to be expected, only he has shown some originality as compared to rest room sitting or taking long showers."

"My only concern is how would happen if students in other dorms decided to do this—how would everyone be able to get up to the sixth floor?"



ALONG FOR THE RIDE—Jim Robinson, Detroit freshman, center, is joined by two friends en route to a world's elevator-riding record. He started at 2:45 p.m. Friday and expected to leave for a zoology exam at 7 this morning. Robinson apparently found that record-setting can have its ups and downs. Photo by Mike Wong

## Mitchell Trio: 'Different' Pros

By LAURENCE TATE  
State News Reviewer

"We try to entertain and to make people think," says Joe Frazier of the Mitchell Trio. In their concert at the Civic Center Friday night, they achieved a good measure of success.

It is fair to say that, as straight entertainers, they do not rise much above the yowling mob of middle-of-the-road folk groups.

They are superior stylists. They eschew sentimentality and the sort of hokum, including between-song patter, that is intended to suggest that they're just hanging around up there having fun.

"We are not comedians," says Frazier.

But when they sing the same pop-folk standards everyone else is singing, good arrangements and superior style are not that much help, since the result is only professionalism within the confines of a fairly bland formula.

Here, it seems, they diverge from the mob. Sugary liberalism is requisite for the formula groups; they sing "Blowing in the Wind," the audience asks itself those nine inane questions, and that's the end of the matter.

While everybody else talks about it, the Mitchell Trio does something about it. Whether it be the Birch Society, ex-Nazis, extravagant funerals or a white matron confederating to her Negro maid, their targets are pretty well maulled.

"We feel insulted if we don't offend anybody," says Frazier. They are appalled to find Birch Society members among their fans.

"We are angry about a lot of things," Frazier says, and this anger shows up in their caustic satire. In their powerful "When Johnny Comes Marching Home," there is a sound of rage, just barely suppressed.

The anger is usually channeled into manicured glee. They use a comical, infectious and gesture to masterly effect. They are a lot of fun to watch. Their recordings don't do them justice.

Not that they have kept themselves unsullied by commercialism. They have on occasion done some egregious numbers, and the concert was not altogether free of sophomoric touches. But we were spared the worst and given some of the best.

Frazier was attracted to the group by its political possibilities. The others, he said in an interview, were more interested

in having fun with the music. He said he feels they have matured a good deal since the beginning, moving from a combination of politics and entertainment, he believes that they are now right in the middle of the folk-singing spectrum, along with groups like the Weavers.

They are not, he remarked, "folk singers," who would in his definition be a group from the Kentucky mountains who sang only Kentucky mountain songs. He admires such purists, but that isn't what the Mitchell Trio wants to do.

In any case, he is right. They are primarily professionals and have been condemned by people who don't like the slickness of professionals.

But they are, I think, professionals with a difference—professionals, to be exact, with a knife.

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## ON WKAR

Monday, Feb. 1

10:05 a.m.—Music Room—COPIES: Piano Variations, Old American Songs, Set Two.  
2 p.m.—Winter Serenade—VERB: Aida, La Traviata, Mendelssohn: Symphony No. 4, S. STRAUSS: Don Quixote, Ives: 5 Places in New England.  
8 p.m.—Concert Hall of Music—CRESTON: Dance Overture, SCHUMANN: Voyage, MENNIN: Symphony No. 5, Contemporary Music in Evolution (FM only).

## Freshman Awaits Arraignment

An MSU student pleaded not guilty in Lansing Township Justice Court Saturday to a charge of being drunk and disorderly. Campus police said James H. Baer, Detroit freshman, was jailed after failing to post bond set at \$100. Arraignment was scheduled for Wednesday.

## Retiring After 35 Years

## LeMay Discusses Defenses

WASHINGTON 4—On the eve of his retirement after 35 years of service, Gen. Curtis E. LeMay asserted Sunday that unless the United States becomes capable of using military weapons in space, it leaves itself open to enemy attack.

Recognized as a major builder of the Strategic Air Command, the Air Force chief of staff also

reaffirmed what he regards as the absolute necessity of maintaining U.S. military supremacy—and of making sure that potential aggressors are aware of this superiority.

Answering questions put to him by the Associated Press prior to his retirement today, LeMay shed new light on some of the air tactics problems that confronted him in World War II. He indicated he has not changed his views in differences with civilian leaders over some defense policies.

Here is the interview:

## Hearing Set For Rep. West

The hearing to decide if Representative-Elect Daniel West from Detroit is qualified to sit as a member of the House of Representatives has been set for Tuesday, at 11 a.m.

A special committee of representatives has been investigating West in Detroit and will hear the case in Lansing.

The chairman of the committee, Rep. Albert A. Kramer, from Oak Park, said the House constitution provides that "the House is solely and exclusively the judge of its own members."

Kramer stressed that the committee is only considering the issue of House qualifications and has no intention of pre-judging West on any criminal charges.

West will stand trial in Federal District Court for income tax fraud, Kramer said, and he will also be tried in Circuit Court for subordination of perjury and violation of election laws.

"This type of thing has happened before," the chairman said. The committee will respect West's constitutional rights, he emphasized.

## Bill Would Make Inauguration Holiday

A bill to make the day of the presidential inauguration a legal state holiday was introduced to the Michigan Legislature Thursday.

"The inauguration of the president of this great country is an historical event," state Rep. Joyce Symons of Allen Park said, after she introduced the bill to the House.

"Because the president is elected once in four years the holiday would be celebrated every four years," she said. "Also the observance of this day is a state holiday would enable thousands of adults and school children to witness the impressive ceremonies."

Mrs. Symons hoped that other states will also declare inauguration day as a holiday and that eventually it would become a national holiday.

She has support from both Democrats and Republicans.

Q.—Is it possible or feasible to measure United States needs for defense on the basis of pre-planned targets—enemy targets charted in advance—and if not, why not?

A.—...You cannot measure defense needs on that basis because wars never start as predicted. They are not fought as predicted, either.

Q.—Some national planners argue that there can be a nuclear power stand-off with Russia, and that outright nuclear superiority over a potential enemy is not really necessary. What should the U.S. position on this be?

A.—The question many of the advocates of the balance-of-terror concept have been unable to answer is, how much deterrence is enough? The main question is not whether we think we have enough but whether the enemy thinks so. How do you read his mind?

The United States cannot afford to be half safe, and the only sure deterrence is a military force with the unquestioned capacity to destroy the enemy's ability to make war against us.

Q.—In testimony before committees of the Congress you have been at odds with the Secretary of Defense and the Secretary of the Air Force on certain issues, including those of the effectiveness of manned bombers and to relative reliability or lack of reliability of intercontinental ballistic missiles. How do you feel on these questions now?

A.—I think my views on these programs are well documented in Congressional testimony. I have no further comment to make.

## Director To Teach In Nigeria

Miriam J. Kelley, assistant director of the MSU Cooperative Extension Service, left East Lansing Sunday for a two-year assignment at the University of Nigeria at Nsukka.

Mrs. Kelley will serve as visiting professor in continuing education and home economics.

She came to MSU in 1954 from the University of Kentucky to develop the MSU Consumer Marketing Information Program. For the past five years she has been head of the MSU Home Economics-Family Living Program.

Mrs. Kelley is the first woman faculty member from MSU to serve as an adviser at the University of Nigeria. She will work on the development of a program for women in the Department of Extra-Mural Studies.

In addition to teaching, she will advise in the College of Home Economics.

Mrs. Kelley is a veteran of 33 years in university extension work.

## Seeding

The most satisfactory time to shape and seed natural waterways to protect farm land from erosion is when soil fields are plowed, according to Russell Hill, MSU conservation extension specialist.

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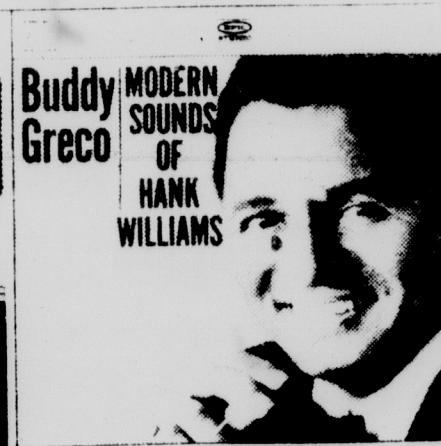
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## U.N. Honors Sir Winston, Adedire Donations Made

By JIM HUCKA  
State News Staff Writer

On the eve of his funeral, Sir Winston Churchill was described as a leading imperialist who should have imperialism follow him to the grave.

The remarks were made by the delegate of the People's Republic of China at a General Assembly meeting of the United Nations Friday in the General Assembly Hall of the United Nations Secretariat Building.

In speaking against a resolution by the United States to honor the late statesman with a moment of silence, the delegate said, "This was a man who did ill to the world."

He quoted from the pro-Communist newspaper, The Worker in calling Churchill an imperialist and charging him, not the Communists, of dropping the Iron Curtain.

The vote on the resolution was predictable—71 voted in favor, three against with nine abstaining.

The three countries voting

against the resolution were Gabon, Upper Volta, and Albania—all held by proxy by the People's Republic of China delegate. However, the People's Republic of China abstained on the matter.

When Joy Harrison, Morton Grove, Ill., sophomore, announced the vote, the entire General Assembly stood in silent tribute to Churchill.

The United Kingdom was charged with interference in the British Guiana elections in a resolution submitted by the Kingdom of Cambodia and the Republic of Bolivia.

"The United Kingdom has followed a policy of harassment against British Guiana in order to delay independence," the Cambodian delegate said.

The delegate from the United Kingdom said that the colony would be administered until strife is ended.

The resolution asked the General Assembly to advise the United Kingdom to return to a district system of legislative representation in British Guiana.

The General Assembly defeated the resolution with 25 in favor, 45 against and 14 abstaining.

Sweden charged Australia with brutality on the island of Tasmania and asked the General Assembly to create an "ad hoc" investigation committee consisting of New Zealand, Cambodia

and Rumania to report on the accusations at the next meeting.

The resolution passed by a razor-thin margin—42 in favor and 41 against with no abstentions.

A collection was taken at the meeting for Abraham Adedire, an MSU graduate and former secretary-general of the organization. Adedire is in an Ann Arbor hospital with a fatal kidney disease and is awaiting a transplant operation.

Secretary - General Marcia Klugman, East Lansing senior, said \$28.80 was collected for Adedire at Friday's meeting. She said contributions for Adedire could also be made at 308 Student Services, the U.N. office.

The next meeting of the Campus U.N. will be Feb. 26.

## Tax Reform Urged

Gov. George W. Romney stressed the need for tax reform and moral strength in an address to the Michigan Press Association "All-Michigan Dinner" Saturday.

"Both parties have committed themselves to tax reform," Romney emphasized. "There is no need for further study."

"We need a bi-partisan effort to get tax reform. I am ready to work with the Democrats to meet the needs of the state," he said.

"The present tax structure is unjust, whether we have a deficit or surplus," he declared. "A new tax structure is needed for added revenue to take care of growing population and added state services," he said.

Romney also stressed to the newsmen the importance of increased attention to the moral life of Americans. "The major areas that need strengthening

include religious convictions, family life and moral character," he said.

He said that to meet future needs ways must be found to strengthen private and individual family responsibility. "Our problems from lack of traditional values will swamp government,"

Romney, later listening to Dickey Chapelle, Viet Nam reporter, took a great interest in the war situation report and asked several questions during the question period.

## U.S. Overseas Conduct Cited

Americans overseas must consider the customs of foreign countries and the philosophies behind them, two military officers told members of Delta Phi Epsilon recently.

Lt. Col. Gerald T. Heyboer of the Department of Air Science, and Maj. Richard Clohery of the Department of Military Science, related their personal experience in a panel discussion on the U.S. military overseas.

"American businessmen gain respect by giving a fair deal and demanding one in return," Heyboer said. "There is always an element of animosity in a foreign country. If you let yourself be taken advantage of, you lose respect. But Americans have no monopoly on the Golden Rule," he said.

Knowledge of the language of the country is valuable for a person working in technical fields in Europe, according to Clohery, but otherwise it is not necessary since nearly anyone who deals with the public speaks English.

The officers agreed that a civilian should know the laws of a foreign country since he is subject to them.

## Campbell Has Dinnertime 'Hoot'

Hap 'n' Joel, a campus folk-singing group, entertained Campbell Hall residents at a dinnertime hootenanny Wednesday night.

Hap Dunne, 22, a senior psychology major from New Canaan, Conn., and Joel Higgins, 21, a junior in advertising from Dayton, Ohio, formed their act six months ago and have performed at several college campuses in Michigan.

They sang traditional folk songs and original numbers. Dunne has written songs recorded by the Brothers Four and Peter, Paul and Mary.

Hap 'n' Joel are frequent performers at the Fat Black Pussy-cat, a local coffeehouse, and will sing during intermission at the J-Hop.

## Nuclear Research Discussed Today

The director of the thermodynamic division of Oak Ridge National Laboratory, Oak Ridge, Tenn., will speak at the Engineering Building Auditorium today at 4 p.m.

Alan C. England's topic will be "Progress in Controlled Thermodynamic Research," part of a series of mechanical engineering seminars.

The discussion will feature the need for the program, energy requirements of the world, types of fuel and mechanisms of containment and the physics of the fusion process.

## OLIN HOSPITAL REPORT

Admissions include: Clinton Keller, Bellevue, Neb., freshman; Pamela Bell, East Lansing junior; Kathleen Sheehan, Detroit junior; William DeBene, Pompano, Fla., freshman; Judith Pettibone, Farmington, Conn., sophomore; Rhea Hakes, Jonesville, Va., sophomore; Leroy Bobbitt, Buchanan junior; Karen Lee Coburn, Franklin, Mich., freshman; James A. Hill, Atlanta, Ga., freshman; Janet K. Prescott, Mt. Clemens, Mich., freshman; William R. Stewart, Trenton, N.J., freshman; Thomas M. Adair, Indianapolis, Ind., sophomore; Robert D. Aumaugh, Pontiac, Mich., sophomore; and Robinson S. Nunn, Blytheville, Ark., junior.

Also admitted were David A. Verbeke, Grosse Pointe Farms, Mich., freshman; Jan E. Deen, Livonia, Mich., senior; Robert H. Leonard, Saginaw, Mich., senior; Donald Whitaker, Benton Harbor, Mich., senior; Ann Boylan, East Lansing, Mich., senior; and Carol Ann Tracz, Patchogue, N.Y., sophomore.

## Papers Given In Physics

Several faculty members and graduate students of the Department of Physics and Astronomy contributed to 13 research papers presented at the annual meeting of the American Physical Society last week in New York.

Authors included professors Truman O. Woodruff, Frank J. Blatt, Sherwood K. Haynes, Donald J. Montgomery and Robert D. Spence, and associate professors Jerry A. Cowen, Harold Forstater, Meyer Garber, Michael J. Harrison, Edwin Kashy and William H. Kelly.

Others included assistant professors Charles M. Randall and Peter A. Schroeder, and research associates Venkatarama Nagarajan and Maciej Sufczynski (on leave from Warsaw University, Poland).

Graduate assistants who contributed were Richard Au, Richard M. Fuller, Raymond J. Krisciokaitis, Norman D. Love, James McEleaney, David A. Sellmyer and Howard J. VanTill.

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## Language Clubs Hold Combined Programs

Study abroad, a German celebration and the Soviet Union will be discussed at the combined meeting of three of MSU's language clubs Tuesday at 7:45 p.m. in 34 Union.

The three clubs, Spanish, German and Russian, combined last spring term to be able to combine their efforts for any event of interest to their members.

This month's three planned programs will be conducted in English.

A new program for overseas summer study, AMLEC, will be explained by Carlos Del Prado, a member of the Spanish Department and adviser to the Spanish Club. A film on Spain, followed by a short discussion, will also be presented in the program.

The German Club program will center around the German present celebration "Fashing."

This fiesta, similar to the Mardi Gras of France and the United States, will be covered by Gunter Pfister, a graduate student at MSU.

The various areas, especially the Rhineland, where "Fashing" is celebrated will be mentioned for their customs and traditions.

Highlights of a trip made to Russia last summer will be presented by Alexis Klimoff, a member of MSU's Russian Department and the Club's advisor.

He will also present a humorous commentary on "Instant Russian" (Cyrillic Alphabet). Posters and charts will be used to illustrate his talk.

Refreshments will follow the programs.

The three clubs are open to students interested in learning something about the country whose language they are learning.

## Carny Program

All students who petitioned for the Water-Carnival program committee are requested to call Donald Sockol at 351-4235 after 4 p.m. today or Tuesday.

## Placement Bureau

Feb. 8

American Motors Corp.: Mechanical and Electrical Engineers (B.M.), Accounting (B), or Accounting or Finance (M) with Engineering, Economics or undergraduate degree, M.

The Budd Co.: Mechanical and Electrical Engineers, Industrial Administration and all others of the College of Business (B.M.), M.

City of Detroit: Chemistry, Women's and Men's Physical Education, Civil, Electrical and Mechanical Engineers (B.M), Floriculture (B), Male, All majors of the Colleges of Business, Arts and Letters, Communication Arts and Social Science, Landscape Architecture (B.M), M/F.

Coldwater City Schools: All early and later Elementary Education (E), M/F.

Detroit Mobile Homes, Inc.: Mechanical Engineers, Residential Building and Industrial Design (E), M.

The Glidden Co.: Marketing and all others of the College of Business, Finance, Accounting, Chemical Engineers, Chemistry, Food Distribution (E), M. Secretarial Science (B) F.

Hercules Powder Co.: Chemical Engineers, Mechanical Engineering and Chemistry (B.M), M/F.

McCord Corp.: Mechanical Engineers (B), M.

Peat, Marwick, Mitchell & Co.: Accounting (B.M), M.

National Bank of Detroit: All majors of the College of Business - Accounting, Finance (B, M), Economics (M), Mechanical Engineers, (B.M), M.

South Stikney School District Number 111: Early and later Elementary Education (B.M), Vocal Music, Art, Guidance and Counselor (M), Speech Correctionist (E), M/F.

The Upjohn Co.: Pre-Med, Pre-Dental, Bacteriology, Physiology, Biology, Chemistry, Zoology and all others of the College of Natural Science (B.M), M.

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

Camp Tamarack: Truck and bus drivers, dishwashers, kitchen porters, cabin counselors, unit counselors, program director, counselor training supervisor, arts and crafts special-

lists, waterfront specialists, campcraft-nature specialists, caseworker, M/F

Hercules Powder Co.: Juniors in Chemical Engineering and Seniors in Packaging Technology going on to graduate school (M), Feb. 9 & 10

Hewlett-Packard Co.: Will be interviewing Juniors in Electrical Engineering and Mechanical Engineering.

Feb. 11  
Pine Point Resort: Childrens counselors, waitresses, waiters, busboys, bartenders, social director, desk clerks, office personnel, M/F

Feb. 11 & 12  
Foote, Cone and Belding: Summer training program for students who have talent and academic preparation in any one of the following areas: art design, creative writing, film production and market research.

Feb. 12  
Camp Easton for Boys - Ely, Minn.

National Music Camp: Counselors, food service, accompanists, stage crew, music librarians, student center desk, registered nurses, radio engineers, secretaries, switch board operators, photographers, waterfront directors, (Minimum age 18)

## New Education Support Stressed

A new proposal for state support headlined the Michigan Education Association legislative proposals released recently.

MEA officials state that their plan attacks declining percentages of state support of public schools. With local efforts and fixed state percentages of participation, the program will not have to be redone each year.

Even the poorest Michigan school districts will be able to provide the state average per-pupil investment for any current year under this plan.

The MEA legislative program includes special aid proposals for underprivileged children, tuition, transportation, vocational education, special education, and trainable programs costing approximately \$12,700,000.

The Association also suggests plans for school building capital outlay and teacher salaries and benefits.



ME FIRST, YOU LAST--Nancy Aal, Southfield sophomore, has the unique distinction of being the first person listed in the student director, Charles Zywicki, Belleville freshman, has the equally unique distinction of being the last person listed. And who says MSU can't make ends meet?

Photo by Larry Carlson

## 'Blind Faith' In U.N. Shattered, Peking Says

TOKYO (AP)—Communist China told Adlai Stevenson Sunday to "shut up" and stop calling the United Nations an organization of peace and international cooperation.

The official newspaper, Peking People's Daily, termed "nonsense" the U.S. Ambassador's defense of the United Nations after Indonesia's announced withdrawal earlier this month. Stevenson is the U.S. chief delegate to the United Nations.

Addressing his remarks to Stevenson, the newspaper said in an editorial:

## Off The 'Wagen'

Three MSU students stood mute in Ingham County Circuit Court Saturday on a charge of larceny from a vehicle.

Bond was continued for Bruce A. Halgren, Somerset, N.J., junior, Michael L. Remondino, Birmingham sophomore, and Fay A. Rogers, Spring Lake junior, who campus police say lifted the rear of a Volkswagen in parking lot "O" and stripped the tires and wheels off.

No trial date was set.

## PART TIME WORK SALES PROMOTION ALCOA CORPORATION

For all interested students, a meeting will be held on Thursday, Feb. 4 at 4 p.m. in the Placement Bureau, Student Services Building. Students with cars and who have interest in part-time sales promotion with Alcoa should sign up for the interview at the Placement Bureau. Work does not involve door-to-door selling. This could lead to full-time position with Alcoa after graduation.

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Spray Cologne, \$3.50  
Buddha Soap Gift Set, \$4.00  
Cologne, 4 oz., \$3.00  
After Shave, 4 oz., \$2.50



## Graduation was only the beginning of Jim Brown's education



## Because he joined Western Electric

Jim Brown, Northwestern University, '62, came with Western Electric because he had heard about the Company's concern for the continued development of its engineers after college graduation.

Jim has his degree in industrial engineering and is continuing to learn and grow in professional stature through Western Electric's Graduate Engineering Training Program. The objectives and educational philosophy of this Program are in the best of academic traditions, designed for both experienced and new engineers.

Like other Western Electric engineers, Jim started out in this Program with a six-week course to help in the transition from the classroom to industry. Since then, Jim Brown has continued to take courses that will help him keep up with the newest engineering techniques in communications.

This training, together with formal college engineering studies, has given Jim the ability to develop his talents to the fullest extent. His present responsibilities include the solution of engineering problems in the manufacture of moly-permalloy core rings, a component used to improve the quality of voice transmission.

If you set the highest standards for yourself, enjoy a challenge, and have the qualifications we're looking for — we want to talk to you! Opportunities exist now for electrical, mechanical and industrial engineers, and for physical science, liberal arts and business majors. For more information, get your copy of the Western Electric Career Opportunities booklet from your Placement Officer. And be sure to arrange for an interview when the Bell System recruiting team visits your campus.

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# MSU Welcomes Farmers

## Farm Week Has Colorful History

Past visitors to Farmers Week have not only received educational value from the program, but some light moments as well.

An entertainment highlight of the 1937 week was Frank Martin of Battle Creek and his pair of oxen. He claimed they were the largest pair in the world, weighing in at over three tons and able to move over 15,000 pounds of cargo over a dirt road. He offered \$500 to anyone who could match them.

In the same year, Dean Ernest L. Anthony of Michigan State's College of Agriculture praised the leadership Michigan's farmers for almost doubling their income of \$108 million in 1932. Today, Michigan's farmers earn almost a billion dollars for their work.

In 1938, Mrs. Nellie Curtis of Ionia drowned out all her competitors with an ear-splitting "Err-ree" in the husband-calling contest. William Hale, young farm boy from Charlotte, almost short-circuited an electrical sound measuring device in the hog-calling contest.

In 1940, 50,000 people poured into East Lansing for the 25th anniversary of the program. One hundred and sixty-one events were listed including the dedication of a livestock pavilion and Jonson Fieldhouse, the largest non-commercial building in the state.

In 1942, many farmers who had done outstanding work for Michigan's agricultural community were honored with "Awards of Merit" from Michigan State College.

Farmers' Week was not held in either 1946 or 1947 because of returning World War II veterans who raised enrollments to a record-breaking 13,000 and created acute housing, eating and meeting facilities at the college and throughout East Lansing. Instead, the Rural Progress Caravan made up of members of the agricultural college faculty and staff visited every county in lower Michigan to provide farm people with part of the usual program.

When Farmers' Week resumed in 1948, one thousand farmers who had attended the event were asked by Anthony for suggestions on programs and arrangements. Some 25,000 people attended that year.

## Economy Sessions Scheduled

Everyone who is interested in money—including about 50,000 expected visitors to the MSU campus—can find answers on how to get more, as well as finding the best use of what they already have.

The MSU Agricultural Economics Department will attempt to provide these answers in Tuesday, Wednesday and Thursday sessions during Farmers Week.

Tuesday's topics include new changes in tax reporting contained in the 1964 Revenue Act directly affecting the farmer will be explained at the Tuesday sessions along with new food products, imitations and substitutes.

Five MSU scientists will report on their experiences in foreign countries and explain how the world food deficit faces in exploding world population during a Tuesday afternoon session.

How prices for farm products are determined by three types of bargaining organizations will be reported in the Wednesday meeting by officials of the Michigan Agricultural Cooperative Marketing Association, the Michigan Milk Producers Association and the National Farmers' Organization.

This is the first time these major leaders have gotten together to discuss ways of obtaining better prices for farmers. Each will explain his organization's efforts and goals.

A general agricultural economics exhibit called "Market-Orama" will be displayed in the lobby of the Agricultural Engineering Building on campus throughout the week.

## Livestock Judging Monday

Livestock judging—a traditional part of early day Farmers Week programs—will be revived during this week's 50th anniversary program.

The MSU Animal Husbandry Department is sponsoring the contest for youths and adults to focus attention on trends taking place in the evaluation and selection of animals and meat. The contest will start at 9:30 a.m. today in the MSU livestock pavilion.

Teams of three to five youths will represent Michigan's 4-H Club and Future Farmers of America chapters in the contest. The top three teams in this contest will share awards valued at \$150.

In the adult contest, county teams will consist of five entrants.

Harlan Ritchie of the MSU Animal Husbandry Department says contestants will evaluate breeding and market beef, swine and sheep.



RESEARCH CENTER—Although it isn't always possible to study a subject as closely as Robert Dowdy, Union, W. Va., graduate student, is doing, much

research on agricultural problems is carried on at the MSU campus. This photo was taken in the soil science lab. Photo by David Sykes

## Trio Joins Ag Hall Of Fame

Three Michigan leaders will receive special citations from Michigan State during the Golden Anniversary Farmers Week.

The trio will be named to the MSU "Agricultural Hall of Fame" Thursday. A Berrien County nurseryman, a livestock farmer from Washtenaw County and an Upper Peninsula editor will receive "Distinguished Service to Agriculture" awards.

To be honored this year are Charles O. Zollar, Benton Harbor; Ernest G. Salmer, and Jean Worth, Escanaba.

The presentation during the 50th Farmers' Week will be made by Dean L. K. Cowden of MSU's College of Agriculture. Honors will be conferred at a special anniversary program Thursday in the MSU Auditorium.

Michigan State President John A. Hannah will deliver the golden anniversary address at this session.

Zollar, co-owner of Aircraft Components in Benton Harbor, also operates a nursery and greenhouse in Berrien County. He was elected state senator from the 22nd district in the November election.

In 1963 he was named to the Michigan Agricultural Commission by Gov. Romney and served as chairman in 1964.

Senator Zollar was instrumental in initiating the virus-free strawberry plant program in Michigan. He is one of the largest growers of strawberry nursery stock in the nation and past president of the Michigan Strawberry Growers Association.

Girbach operates a 240-acre Washtenaw County livestock

(continued on page B-2)

## Farmers' Week To Draw 50,000

Nearly 50,000 persons will converge on the Michigan State University campus during the first week of February, 1965.

It's the 50th anniversary of Farmers' Week. This event, one of the few of its kind in the U.S., will have something for everybody from the gentleman farmer to the hired hand; from the farmer's wife and children to the scientist concerned with agriculture.

Twenty MSU departments will present programs on the latest in scientific farming and modern farm living. Over 400 authorities from throughout the country will appear. They will talk about everything from beekeeping to herbicides. Exhibits will range from Grandpa's 1914 model tractor to the latest in four-wheel drive models.

The theme of this year's program is "Golden Anniversary—From Progressive Past to Forward-looking Future."

Farmers' Week began at Michigan Agricultural College (now MSU) back in 1914 when the annual round-up of the Farmers' Institute and the Michigan Livestock Breeders' Association annual meeting were both held on campus at the same time. This joint meeting was called "Farmers' Week."

Visitors are expected to find the special Golden Anniversary event even more exciting and informative. Even the campus will be different from a year ago.

The Biochemistry Building part of the new science complex will feature an exhibit of the practical products of biochemistry research. The new Beef Cattle Research Center on the MSU farm will be open for observation of current research.

Also, the endocrine research unit of the Animal Husbandry Department will show facilities which include the only boar stud in the country specifically designed for swine artificial insemination research.

Besides these exhibits, Byron H. Good, general chairman of Farmers' Week, points to some events which should be highlights of the week.

An agricultural engineering exhibit will show 50 years of farm mechanization with special emphasis on comparing equipment, structures, techniques and costs of important farm equipment today with methods popular 50 years ago.

Project animals—swine, beef cattle and sheep—will be judged with a display of MSU livestock and a judging contest for farmers.

Agricultural departmental exhibits and discussions will cover such subjects as Teftarm (MSU's electronic farm accounting system), farm recreation, fruit trees, farm economics, farm organization of today and tomorrow, Michigan soils, pesticides, lettuce and other truck crops, and many more.

A Statesmen's Luncheon will be held to honor old-timers who have attended Farmers' Week for 30 years.

For the ladies, home economics exhibits will show art objects from around the world, and "The Story of Mink—From Pelt to Garment." Fifty years' progress in kitchen equipment will be featured along with what's new in small appliances. Seventeen homemakers will discuss their experiences on a trip behind the Iron Curtain.

Fashions, home design and new foods will also be on the program.

For the young, 18 career areas will be explored in panel discussions. And 14 talent acts will entertain using selected 4-H talent dating back to 1951.

For those who wish to learn while sitting down, movies will be presented on such subjects as "Honey," "Russia," "Food or Famine," "Missouri Cotton-tail" and many more.

For the cultural minded, WKAR and WMSB-TV studios will be open for touring. The Kresge Art Center will feature drawings and paintings by German children, French sculpture of the 18th and 19th century and small objects of medieval art.

A reconstruction of an early 19th century village store will be on display at the museum. Speakers will be MSU President John A. Hannah, and Tran Van Dinh, former acting ambassador to the U.S. who will discuss "The War in Viet Nam."

## Farm Week Of Past Recalled

By JIM HUCKA  
State News Staff Writer

Ralph W. Tenny can rightly be called one of Michigan's elder statesmen of agriculture and will be so honored during the Golden Anniversary celebration of Farmers' Week.

His connection to Farmers' Week is especially close because he was MSU's Director of short courses from 1924 until his retirement in 1959. One of his major duties for those 35 years was the chairmanship of Farmers' Week. However, he began his work with no small knowledge of the annual event—he has attended each one since 1915 and was raised on a farm.

"There was such a difference," Tenny exclaims as he reminisces about past Farmers' Weeks and compares them to the present-day event, which has an expected attendance close to 50,000.

When he began chairmanship of Farmers' Week, work was just starting on the Women's Intramural building and most of the events were held in two buildings on the then-small campus. There was a livestock pavilion in back of Agriculture Hall and some meetings were held in the Armory, a one-story structure located where the music building now stands. According to Tenny, that building had a military function but also included a swimming pool and showers.

Tenny recalls some of the agriculture history that brought the first Farmers' Week into being. The Michigan Livestock Breeders' Association was organized in 1873. Three years later, the college started Farmers' Institutes, one-day meetings held during the winter because most of the agricultural activity is dormant during that time. In 1906, the Michigan Breeders and Feeders had its first annual meeting at the college.

Tenny said that the idea of an over-all convention, today's Farmers' Week, was the request of the State Board of Agriculture which felt a combination of all the Michigan agricultural organizations meeting at the same time might be more effective than many separate unconnected conferences.

The personal history of Ralph Tenny has a strongly agricultural background. Tenny was born in 1894 in Green Township, Mecosta County. His family moved to Big Rapids and he received his pre-college education there.

Despite his retirement, Tenny maintains an active interest in especially at this time of year, Farmers' Week.

## Farmers Week Actually A 'Welcome Home' Week

Any word of welcome to those attending Farmers' Week should really be stated as "Welcome home!" The very fact that this is the 50th anniversary of the first Farmers' Week is evidence that the farm people of Michigan have long looked upon this University and its campus as their own, and that is the way we want it to be.

None of us should ever forget that this University, now a large and complex institution held in high respect

throughout the world, began as a humble little pioneer known as Michigan Agricultural College.

All of us should be proud that it was here that the American people began a successful experiment in a new kind of higher education—different in that it sought to apply scientific knowledge to the solution of everyday problems, different in that it saw it as its mission to prepare young people to become productive citizens, different

in that it sought to make the benefits of higher learning available to all with the mental capacity to achieve them.

We have come a long way since then. Agriculture has been changed tremendously, higher education has been changed tremendously, and our whole society has been changed tremendously. But the fundamental dedication of this University—dedication to the service of people through teaching, research,

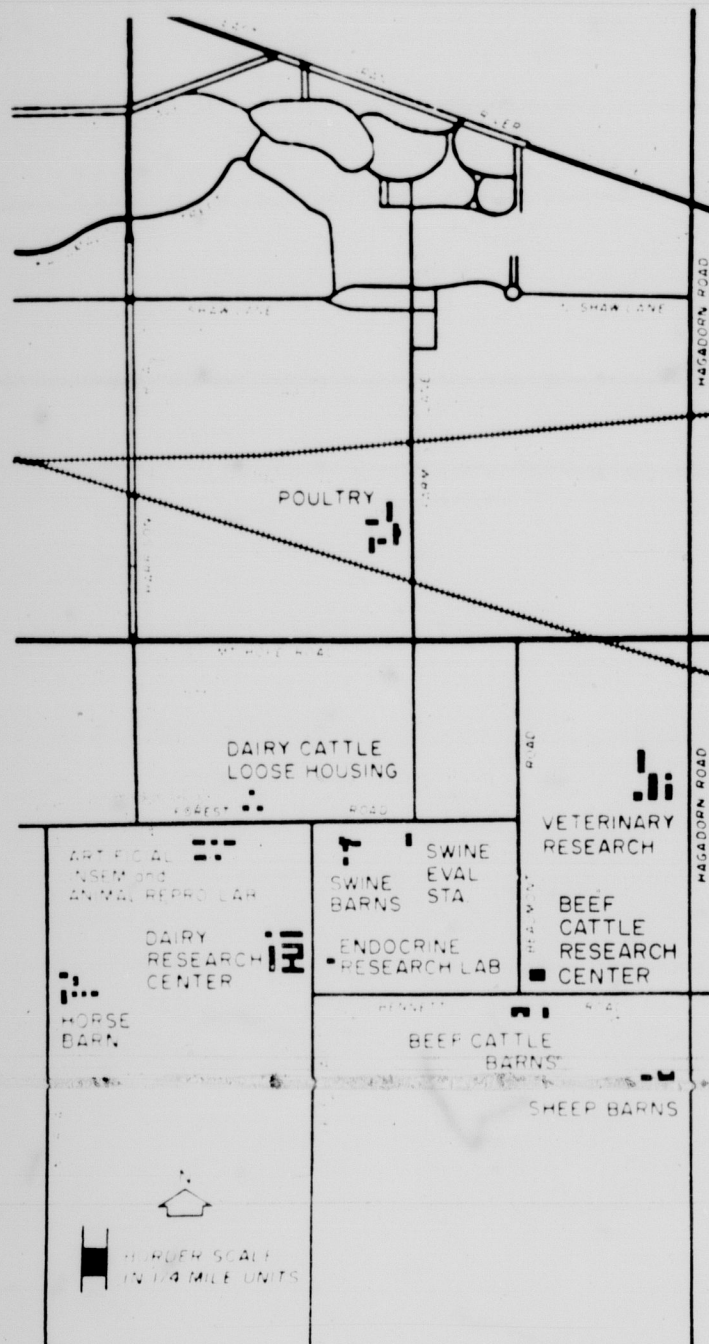
and extension—has remained unchanged.

Farmers' Week is one device through which it serves the people of Michigan, and you are just as welcome as were your fathers and grandfathers a half-century ago. All of us hope that your visit to the campus will be both pleasant and profitable, and that you will come back home again many times. We like to have you here.

John Hannah

# LBJ: Many Farmers Must Quit

MAP OF UNIVERSITY FARM



WASHINGTON (AP)—President Johnson has said boldly something about agriculture that most politicians have recognized but have been reluctant to discuss publicly.

In his budget message to Congress, the President said that farming alone cannot be expected to provide a decent living in the future for more than about one million farm families, even with continued federal assistance. This is slightly less than a third of the families now trying to make all or most of their living from agriculture.

Johnson's statement came as a shock to many farm leaders, particularly those whose organizations have been pressing for greater federal aid to maintain family farms, and to members of Congress whose constituents are largely rural.

Heretofore, government farm leaders often have denied that the programs they were administering were contributing—in a negative way—to exodus from the land. In many past presidential election years, the candidates have promised to work for the preservation of family farms. But it has been apparent for many years that technological advances in agriculture have been driving many out of agriculture because they could not match the required techniques. Many have sold their land to neighbors who were more efficient producers. The number of farm units has declined about 60 per cent since the mid-thirties despite the outlay of more than \$30 billion on various farm programs.

This Johnson message said bluntly that many now trying to

support themselves in agriculture must find other ways of earning a living. Some, he said, may continue farming but only if they find non-farm sources of income to supplement meager farm earnings.

In giving this picture of a need for a big reduction in the number of farmers who do nothing but farm, the President went a long way toward outlining the farm program objectives of his administration.

He will recommend a short-term program continuing some of the present commodity programs for a few years. But he will outline in time long-term farm policies designed to use government funds to help agriculture's unneeded find other opportunities. Secretary of Agriculture Orville L. Freeman is working on the long-range program which may be outlined in a message to Congress next month. The Johnson objective is being criticized most sharply by farm organizations which depend to a large degree on the middle income and lower-income farm families for their members. A reduction of farms from the present 3.4 million to one million could well destroy some farm organizations.

The big American Farm Bureau Federation is more nearly in line with Johnson's view of the future than some of its competitor organizations, although its officials believe his estimate that only one million farm families are essential may be a little low. But it believes it would be hurt the least by declining farm numbers because it feels that most of its 1.6 million members are

commercial farmers able to make a go of farming.

Some past administration backers who have worked closely with Freeman are saying they do not see how he could continue to serve in the Cabinet if there is a really drastic policy shift. They note he has been working for strong farm commodity programs, involving costly price supports and payments.

There have been rumors and reports that Freeman may take another post in the government and that Undersecretary of Agriculture Charles S. Murphy will return to private law practice. But aides of both Freeman and Johnson deny that this is likely to happen.

## Trio

(continued from page B-1)

farm. He has a 60-cow dairy herd and is an outstanding breeder of Poland China hogs. He has served as a national director for both the American Dairy Association and the American Dairy Council and is past president of the Michigan Agricultural Conference.

An active supporter of youth programs, he was appointed to the Governor's Advisory Committee last fall.

Newspaperman Worth has been editor of the Escanaba Daily Press for the past 10 years. He is one of the Upper Peninsula's most staunch supporters. His columns reflect a concern not only for the rural sector but a genuine interest in economic, educational and civic progress for both Upper Michigan and the entire Winter Water Wonderland.

He is a pioneer Michigan tree farmer. His 580-acre woodland in Menominee County became tree farm No. 6, certified by the Michigan Tree Farm Committee.

A strong backer of all agricultural enterprises, Worth's news columns also interpret current events in tourism, mining, business and the cultural aspects of the area.

The Escanaba editor is currently serving on the State Human Resources Committee, and he maintains a year-around farm-city good will campaign in an area where rural and urban segments are extremely interdependent.

## New Kitchen Demonstrates Dimensions

A demonstration of work saving cooking equipment is being held this week in room 103, Agricultural Engineering Building.

The exhibit, on display in connection with Farmers' Week, is made up of a model, modern kitchen. The kitchen is constructed so that homemakers can observe the proper dimensions for locating various pieces of kitchen equipment.

Correct relationships between equipment and storage space is another feature demonstrated by the model kitchen. Cabinets, storage areas, partitions, and shelves have been carefully arranged in order that the homemaker may become more aware of the importance of correct storage placement in her kitchen.

Work saving properties of small appliances such as food blender, food mixer, electric knife, and teflon coated cooking utensils will be shown.

Representatives of the electric power suppliers will also be present to discuss the equipment and arrangement of the kitchen with interested homemakers.

## Administrators To Speak

University administrators will be featured speakers at two Farmers' Week events.

President John A. Hannah will speak Thursday at a special program to commemorate the 50th anniversary of Farmers Week. His speech, "Agriculture at MSU in the Next Half-Century," will be presented at the University Auditorium at 12:45 p.m.

MSU Secretary Jack Breslin will speak on "Your Michigan State University" at a luncheon Wednesday at the Union Building.

A banquet sponsored by the Livestock Improvement Assn. of Michigan will be held at the International Center at 6 p.m. Tuesday in conjunction with the Farmers Week activities.

Johnson's forecast of the need for a great reduction in farms actually is not far out of line with a statement Freeman made in a talk before a national Grange convention in Atlantic City last November. He said that fewer than one out of four rural Americans today lives on a farm, and that in five years the proportion will be one in five.

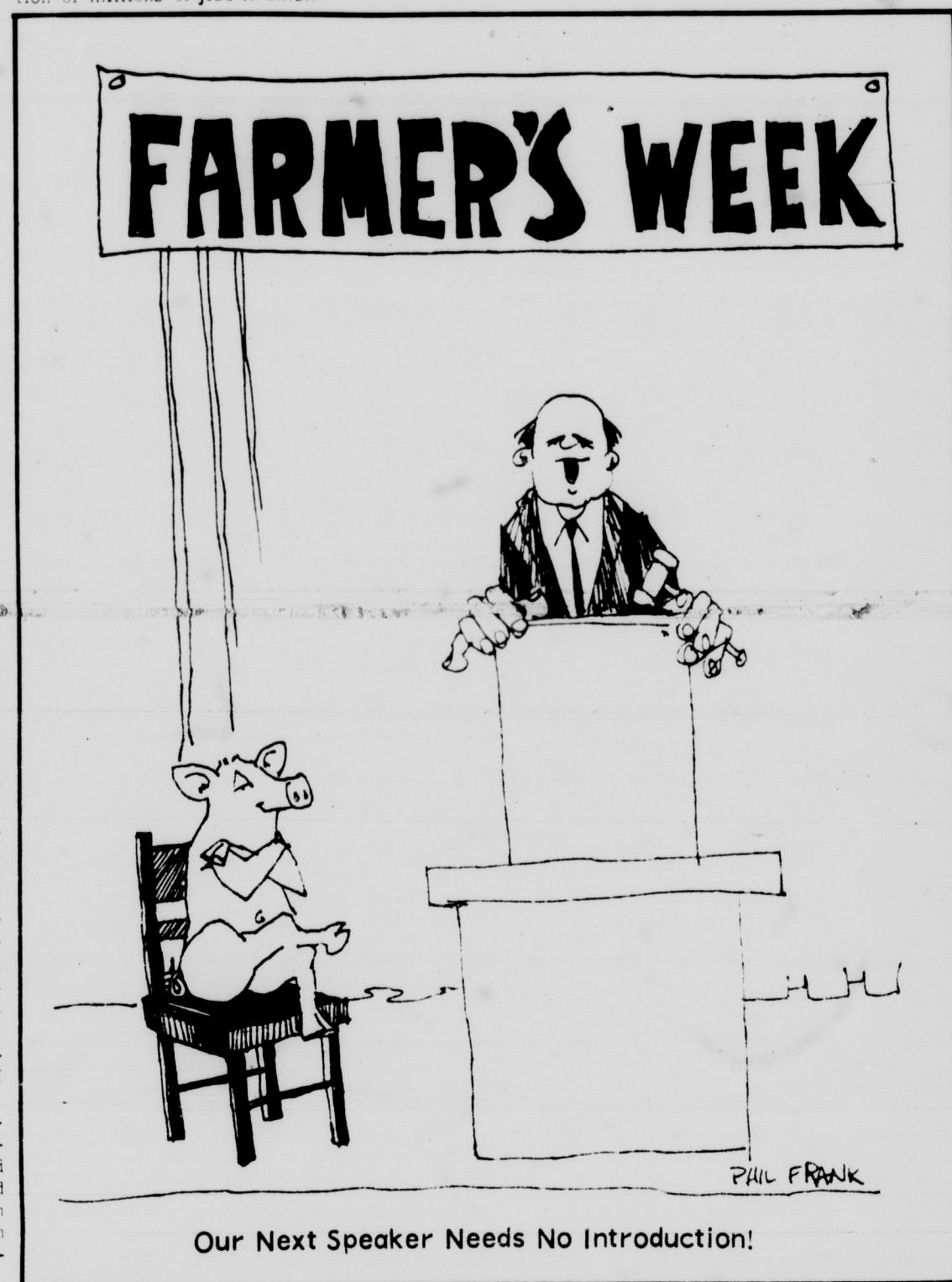
Johnson envisions the creation of millions of jobs in small

towns, cities and farming areas through the building of homes for the elderly; the development of recreation projects; the development of businesses providing specialized services for tomorrow's "push-button" farmer; and the building of industrial parts in areas close to natural resources.

Other possibilities are the creation of rural crafts, the building of new schools and other com-

munity facilities; development of watershed projects providing recreation and possible sites for industrial developments; expansion in timber production and the like.

To get these projects going, the administration will provide technical assistance in planning and development as well as some loan funds. It seeks to organize local groups to help push these developments.



## Here's Program Of Week's Events

Following is the schedule of events for Farmers' Week. The above map shows locations of points of interest to farmers.

### MONDAY, Feb. 1

10:00 Weigh feeding project hogs, Livestock Pavilion  
10:30 Dairy Breed Association meetings, Kellogg Center  
11:30 Dairy Breed Association luncheon, Kellogg Center  
12:30 Dairy Breed Association, Kellogg Center  
1:30 Dairy program for ladies, 104 Kellogg Center  
3:00 Judge carcass class project hogs, Livestock Pavilion  
4:30 Dairy social hour, Kellogg Center Centennial Room  
6:00 All-breeds dairy banquet, Kellogg Center Big Ten Room

### TUESDAY, Feb. 2

8:00 Arrival of project beef cattle, Livestock Pavilion  
9:00 Recreation—"New Dimension in Agriculture," Union Ballroom  
9:30 Up-to-date practices for quality fruit production, 206 Horticulture Building  
10:00 Michigan Swine Breeders Association annual meeting, 224 Anthony Hall  
Beef Cattle Breed Association meetings, Anthony Hall  
Michigan Cattle Feeders Association, 109 Anthony Hall  
New food developments, Engineering Building Auditorium  
"Can You Expand Your Dairy Enterprise Too Fast?" 116 Agricultural Engineering Building  
Sugar Beet Day, Kellogg Center Auditorium  
Christmas tree growers, Kellogg Center Lincoln Room  
Poultry science program, 110 Anthony Hall  
"Opportunities Unlimited," University Auditorium

12:00 Sugar Beet Day luncheon, Kellogg Center Big Ten Room  
Department of Resource Development and Michigan Association of Rural Recreation Enterprises luncheon, Union Building  
Box lunch and meet the professor, Engineering Building  
Beef cattle associations and Swine Breeders Association--box lunches, Anthony Hall lobby  
1:00 "Can You Expand Your Dairy Enterprise Too Fast?" 116 Agricultural Engineering Building  
Sheep program, 224 Anthony Hall  
1:10 Spring tappers for 1965--Center for International Programs, Con Con Room  
Parents and teenagers "Stop, Look and Listen," Fairchild Theater, Auditorium Building  
1:15 "College in Your Future," Education Building, Kiva  
"World Food Deficit Faces Exploding World Population," Engineering Building Auditorium  
Poultry and agricultural engineering program, 110 Anthony Hall  
Sugar Beet Day, Kellogg Center Auditorium  
1:30 "A Look to the Future in Swine Production," 109 Anthony Hall  
Michigan Association of Rural Recreation Enterprises annual meeting, Union Ballroom  
Christmas tree growers, Kellogg Center Lincoln Room  
Up-to-date practices for quality fruit production, 206 Horticulture Building

2:00 Tour of Beef Cattle Research Center and progress report of experiments, Beef Cattle Research Center  
Judge project beef cattle, Livestock Pavilion  
2:30 "Fashions, Fabrics and You," Education Building Kiva  
3:00 Pork carcass evaluation demonstration, 109 Anthony Hall  
6:00 Agricultural engineering banquet, Kellogg Center Big Ten Room  
Michigan Christmas tree growers banquet, Kellogg Center Centennial Room  
Livestock banquet, Crossroads Cafeteria, Center for International Programs  
"Accent on Youth," Fairchild Theater, Auditorium Building

### WEDNESDAY, Feb. 3

8:00 Weigh market steers, Meats Laboratory  
9:15 Maple syrup producers, Kellogg Center Lincoln Room A  
9:30 Judge market swine classes, Livestock Pavilion  
Nut growing in Michigan, 206 Horticulture Building  
10:00 "Farm Machinery and Its Impact on your Pocketbook," 116 Agricultural Engineering Building  
"Financial Management: A Necessity for Today's Farm Family," Engineering Building Auditorium  
"Cash Crops: Small Grains," Kellogg Center Auditorium  
Dairy program, 109 Anthony Hall  
Beekeeping program, 31 Union Building  
Michigan Dairy Goat Society, 126 Anthony Hall  
Livestock Science Research, 101 Anthony Hall  
"Of Meat and Might," (closed circuit television), University Auditorium  
"Farm Organizations Today and Tomorrow," Kellogg Center Lincoln Room B

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## Romney Talks On Problems Of Agricultural Production

Gov. George Romney, at the Michigan Agricultural Conference annual legislative dinner here in East Lansing the evening of Jan. 13, had much to say concerning the American farmer and his problems of overabundance.

"There's a tradition of this dinner that I am sure you all appreciate," the Governor said, "the tradition of the overflowing loot bags which we carry home. Actually, it is fitting that the Agricultural Conference should put on such an impressive display of agricultural products. Your membership represents the full range of Michigan agriculture, and you have provided us with a fair sample of Michigan's agricultural abundance -- an abundance which, in its diversity, makes Michigan unique among the states. I'm sure that most of you know that Michigan ranks tenth or higher in the production of 30 of the nation's most important food crops.

"You don't need to be told that agriculture today is a business," he continued, "and a big one. But how many people know that agriculture, as a whole, is the biggest buyer, the biggest seller, and the biggest borrower, in the American economy? The American farmer's investment in machinery alone is greater than the assets of the automobile industry. His total investment is \$214 billion, which is more than the investment of all the companies listed on the New York Stock Exchange put together.

"It makes sense, then," Romney pointed out, "that the various segments of this vast and far-flung business of agriculture should band together to advance their common interests -- and, as they broaden their horizons beyond their own particular interests, I cannot help but believe that they develop an ever-heightening concern for the broader public interest. In this process of sharing information, problems and aspirations, in a group as broad as this, you are also helping to break down the

artificial barriers of distrust and misunderstanding which too long have divided American farmers from their friends and relatives who live in cities.

"The sample of abundance which you have given us tonight also illustrates the distinguishing feature -- and the greatest dilemma -- of American agriculture. The American farmer's ability to produce has given our nation the most abundant supply of the best, and least expensive, food of any people on earth. Each year the farmer's increased efficiency saves the American people billions of dollars in food costs -- far more, for example, than the recently highly-publicized reduction of the federal income tax.

"But this ability to produce efficiently and in abundance has not been an unmixed blessing to the American farmer. He simply has not received his fair share of the economic progress which he has helped to produce."

Gov. Romney further said that, "The principal responsibility of government at any level is to provide a climate in which individuals and groups can satisfy their legitimate needs and aspirations. Improvements in federal and state programs can help farmers overcome the disadvantages they face. For example, in my State of the State message to the legislature tomorrow, I will recommend a number of actions to improve the position of Michigan farmers, through programs for better marketing, promotion, inspection, and selling of their products.

"But what you can do for yourselves -- through organization and united effort -- will always be greater than anything the government can do for you, and the very existence of the Michigan Agricultural Conference is testimony to your recognition of this fundamental fact.

"I have spoken of your concern for three kinds of interest -- the interest of particular segments of the farm economy, the interest of agriculture as a whole, and the interest of the general public. But before I close, I must

say a word about another, even broader, interest: the interest of the people of the world.

"Food is the most precious commodity in the world today. According to estimates by the United Nations, 10,000 children around the world die of malnutrition or starvation every day. Over two-thirds of the world's adults, and three-fourths of the children, live in the developing countries that hunger most. In the middle of the twentieth century, it is a tragic fact of life that the typical family dog in the United States eats more and better food than the typical workman in India.

"This unconscionable gap between American affluence and the world's hunger obviously threatens our own stability and security -- but it does far more than that. It imposes an imperative moral responsibility on us to reach out to our suffering brothers around the world -- because both we and they are people -- children of the Father who created every one of us.

"Today," Romney said, "we have the tools and the know-how to eliminate hunger from the earth, if we will but apply the same dedication and ingenuity to this moral imperative that we have applied to our own immediate concerns. We can unleash American techniques of food production and distribution around the world, to aid impoverished nations in their own development, so that they can end their hunger through purchase and production of food.

"As we leave this dining room tonight," the governor concluded, "carrying our 'loot bags' filled to overflowing with the products of our own abundance, let us not forget our responsibility to those throughout the world who would literally risk death for a chance to possess -- just once -- the unimagined riches of just one of these 1100 bags. And as we empty and enjoy the contents of our bags, in the days and weeks ahead, let us remember that this is a constant reminder and a constant challenge to our ingenuity -- and to our conscience."

(continued on page B-3)

# Farm Week All-University Effort



COAT MATERIAL--Richard Aulerich, and his mink friend are on the best of terms. Mink usually die of fright if held, but Aulerich accomplishes it without even the benefit of gloves.  
Photo by Patti Prout

## House Farm Committee

### Mackie To Use Experience

John C. Mackie, an MSU graduate who was recently elected to Congress from the 7th District (Lapeer and Cheboygan counties), has recently been appointed to serve on the House Agriculture Committee.

Mackie, a city boy most of his life, is also a small farmer. He operates an 80-acre farm south of Lansing where he raises horses, corn, wheat, oats and hay. His home is actually in Flint, but he has lived on the farm eight years since becoming Michigan's highway commissioner.

He values his small farm ex-

perience and points out how difficult it is for the small farmer in these days of low commodity prices and high production costs.

"It is very difficult for the small farmer to be prosperous or economically sound today because of the increasingly high costs of equipment and supplies and the decreasing income coming from farm products," he said in a recent interview.

Commenting on the urbanite's view of farming, he said: "They don't understand the farm problem and are unsympathetic to the farmers' dilemma. Urban people are paying

more for food and think the farmer is getting these increases. Actually, this is not the case.

"A person must live on a farm for several years to appreciate what our small farmers are going through," he added.

Mackie doesn't think there are any quick or easy answers to the subsidy problem.

"I favor gradual removal of subsidies, but the small farmer will be in need of help through price supports for a long time," he said.

"Large farmers should gradually be eliminated from the subsidy program and then I would favor elimination of support even down to the small farm level," said Mackie.

"I am still open to suggestions on this, however. Farmers can write me in Washington at 1022 Longworth Bldg. and their suggestions will be welcomed."

Mackie has asked for assignments on the wheat, research and extension, family farm and foreign agricultural operations subcommittees.

Visitors to the Golden Anniversary of Farmers Week will be informed of the latest technological developments which have spurred agriculture to the peak of its efficiency, according to Thomas K. Cowden, dean of Michigan State University's College of Agriculture.

"The 50th anniversary of Farmers Week comes at a time when the College of Agriculture is in what may well turn out to be the best year in its history as far as growth and development is concerned," he says.

"Completed or in progress are several new structures: a biochemistry building, a veterinary clinic, a beef cattle research center and a packaging building. Also in production are a plant science laboratory, a forestry-conservation building, a food science building, a new forest nursery, a new horticulture farm, a new poultry farm and several greenhouses."

"The College of Agriculture is growing. Enrollment jumped by 173 students over last year (now 2,225 total undergraduates, graduates and short course students)."

Cowden points out that this year's Farmers Week program continues to be an "all-University" effort. It's backed by the administration, the faculty and the students.

"The University and the students should be commended for their conduct and the way they adjust to relocated classes and schedules to allow Farmers Week to take place," he says.

In 10 years as dean, I've never heard of an instance of inconsideration by any of our students during the event. On the other hand, we've had many instances where kindnesses have been extended to Farmers Week visitors.

The dean points out that the Golden Anniversary of Farmers Week offers Michigan agriculture an excellent opportunity to exhibit some of the contributions it has made to the state and the nation.

"Agricultural progress will be emphasized in hundreds of exhibits and programs to illustrate this year's theme: 'Golden Anniversary--from Progress to Prosperity'."

The program will feature selected 4-H talent acts, dating back to 1911 when the event, "Accepting Youth" program was introduced to Michigan.

Entertainment will consist of 1951 winners, Carol Leyburn Kenney, a pianist from Monroe County; 1952-53 winners, Valerie Stoppel Agresta and Annamie Stricker Secor, a piano duo from Grand Traverse County; and Teresa Kurina of Berrien County, who will sing and play guitar.

Others include the 1954 winners, Gretchen Pollock, a pianist from Washington County, and the 1955 winners, the Charlene Trio, a piano trio from Allegan County. Local talent, Mike and the "Easton Trio," a piano trio from Easton, will play jazz and popular music.

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ADVANCE PLANNING--Noel P. Ralston, assistant dean of the College of Agriculture and director of cooperative extension, and Thomas K. Cowden, dean of the College of Agriculture, look over a copy of a Farmers Week publication. The publication has been put out since 1914.  
Photo by Patti Prout

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Michigan's agriculture will become greater and greater in future years as the state's farmers strive to meet the needs of an expanding population. He emphasizes that it's an agriculture based on science that will play an increasing role in his progressive effort.

"Good colleges of agriculture the world over are parts of great universities--not segregated from the campus," he concludes. "This offers institutions such as MSU the opportunity to have all the sciences close at hand for the sharing of knowledge and experience."

## Conserving Soil Gains Popularity

Michigan's 81 Soil Conservation Districts had their busiest year in 27 years of history, according to Russell G. Hill, soil conservationist for the Michigan Cooperative Extension Service.

With 3,600 new land operators assisted, the number of district cooperators reached 43,200, Hill reports. A number of non-farm requests for assistance came from planning boards, public works, townships, utilities, subdivisions, municipalities and airports.

Of special interest, Hill says, were the 226 farmers who converted all or part of their land into income-producing recreational projects.

Major financial assistance to help landowners came from Agricultural Conservation Program funds and 50 districts had working agreements with the Michigan Department of Conservation in forestry and wildlife management programs on private property.

Hill paid special tribute to the 405 Michigan rural people, who volunteer their services as district directors without salary to administer the 81 districts.

## 4-H Talent On Stage Tuesday

A panorama of talent will fill the Fairchild Theatre stage Tuesday evening when the Farmers Week spotlight shines on 4-H talent winners from all over the state.

The program will feature selected 4-H talent acts, dating back to 1911 when the event, "Accepting Youth" program was introduced to Michigan.

Entertainment will consist of 1951 winners, Carol Leyburn Kenney, a pianist from Monroe County; 1952-53 winners, Valerie Stoppel Agresta and Annamie Stricker Secor, a piano duo from Grand Traverse County; and Teresa Kurina of Berrien County, who will sing and play guitar.

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## Winter Won't Stop Grass Researchers

Even with the ground frozen and covered with snow, turfgrass research is being done by a team of MSU crop and soil specialists.

In answer to the increase in suburban living trends and available recreation time, which is paralleled by the need for more and better turf, select strains of commercial and specially bred turfs are studied under varying experimental conditions.

On special research plots just off Mr. Hope and Beaman roads the many varieties of turfgrass are grown. One section of the plots is devoted solely to the studies of bentgrass, which is commonly used for putting greens on Michigan's golf courses.

Fourteen commercial varieties and 30 selections, under two levels of management, are carefully scrutinized by James Beard, assistant professor of crop science, and a staff which includes a technician and several graduate assistants.

"The game of golf demands close-cut greens which means a limited photosynthetic-producing area," Beard explained. "This in turn results in a reduction in the root system."

Of the numerous varieties of bentgrass presently under observation, he said, "We are able to compare the quality, density, disease resistance and general vigor so as to determine the most adaptable type for Michigan and the Midwest region." The use of fungicides on one set of a particular strain and not on the other yields valuable information on the chemical effects that might produce a healthier turf.

In other phases of experimentation, the effects of reel mowing, the scissors-like current of conventional hand-pushed mowers and that of rotary-type mowers where heating action levels the grass, are compared.

From such study, it has been determined that the reel treatment, at all mowing heights, was

significantly superior to the rotary in terms of visible turf quality. A browned appearance was noted on the rotary plot for two to five days following each mowing.

Some of the factors under evaluation are cutting heights, the raking up of distribution of clippings and the use of six nitrogen rates in all combinations of 144 treatments.

Other turfgrass research currently in progress includes a highway vegetation study, northern Michigan turfgrass investigation, and a fairway renovation-improvement study.

The highway study, a three-year investigation supported by a \$10,500 grant from the Michigan State Highway Department, is aimed at analyzing seeding mixtures, establishment procedures and mulching practices for the over 27 acres of turf that line every mile of intrastate highways.

The northern Michigan project, a turfgrass variety, mixture and management study being conducted at Traverse City, is concerned with a soil containing 91 per cent sand, six per cent silt and three per cent clay which is typical of much of the turf growing in areas of upper Michigan.

The fairway renovation study involves mechanical and chemical methods of reducing the annual bluegrass population and encouraging bentgrass sod formation under close mowing and irrigation conditions.

In addition to the field plot research projects concerning the effects of the environment on the biochemical and physiological processes in carbohydrate and amino acid metabolism are under way in the laboratory.

So if next spring the grass seems greener on the other side, it may be the other side has one of the new varieties of turfgrass.



**FARMER'S FRIENDS**--These men, from the State Department of Agriculture will become familiar to many during the week. They are, left to right, James E. Terrill, apiarist from the plant industry division; G.S. McIntyre, department director; C. Colton Carr, chief of the laboratory division; and William J. Young, plant pathologist from the laboratory division. Photo by James H. Hile

## Department Of Agriculture Protects State's Residents

By G.S. MCINTYRE  
State Agriculture Director

The life of the Michigan citizen from dawn to bedtime is in almost constant contact with the services performed in his behalf by his Michigan Department of Agriculture. This is especially so of Michigan farmers whose livelihood is closely related to this important state agency.

The purity and wholesomeness of food, milk and soft drinks is a department responsibility that protects rural and urban residents alike, so is the accuracy of all measuring devices used in the state. But there are many other services which apply to farm people particularly.

Among these are the inspection and chemical analysis of feeds and fertilizers to determine if the products contain the ingredients represented. These cost Michigan farmers many millions of

dollars a year as do insecticides, fungicides and herbicides which are major items of farm expense that also are checked by this department.

The Crop Reporting Service, a federal-state cooperative function, keeps farm people and others informed about planting intentions, the conditions of crops in Michigan and other states and other economic information. This free service is of immeasurable benefit to the modern farmer by assisting him to plan his operation and to market his crops to the best advantage. A similar cooperative function is that of the Federal-State Market News Service which keeps farmers and others abreast of current prices and trends.

Two thieves--brucellosis and bovine tuberculosis--have cost Michigan dairymen millions of dollars over the years in the loss of milk, calves and decreased

production. Both of these contagious diseases of cattle have yielded to the accelerated program operated jointly by the MDA's Livestock Disease Control Division and the USDA's Animal Disease Control Division. Dairymen, the veterinary profession, educators and the livestock industry have all cooperated in making these programs a success.

Currently these costly diseases are at the lowest incidence in history. Complete eradication is not considered as the remote objective it once was. The goal is within the foreseeable future with research providing the tools with which to do the job.

Poor seed is an unprofitable purchase at any price, and here again the department helps farmers. Thousands of seed samples a year are tested for germination and purity at the department's laboratory to ensure field seeds are free of weed seeds and have the capability to develop a crop.

Inspection of apiaries and the destruction of diseased bee colonies is of great value to the 10,000 beekeepers in the state who maintain some 100,000 colonies and produce upwards to \$2 million of honey and beeswax a year. But this service concerns nearly all farmers who are largely dependent on bees to pollinate more than \$100 million worth of field and orchard crops.

Because the items they buy in their daily operations have bulk as do the products they sell, farmers are especially concerned with the accuracy of scales and other devices used in measurement. Accurate weight is essential when the farmer buys hay, fertilizer, economic poisons or gasoline. It is just as essential when he sells milk, beans, sugar beets or livestock. Nearly everything is bought or sold by weight, measure or numerical count.

The Michigan Department of Agriculture is responsible for enforcement of the state's weights and measures laws.

## Crop And Soil Science Plan Program Series

By ELIZABETH BINNS  
State News Staff Writer

The Department of Crop Science - Soil Science at MSU is planning a full program for Farmers Week. Activities and lectures will begin Tuesday morning and end Thursday afternoon.

The series begins Tuesday with an exhibit in the East Concourse of the Stadium. The display consists of a film strip illustrating the most up-to-date production practices which have proved successful for Michigan corn production. It discusses date of planting, hybrid selection, plant population, row spacing and wheat acreage as related to corn production.

Visitors will see and hear the complete story which will be operating continuously from 9 a.m. until 4 p.m. The entire slide-tape program can be viewed in 15 minutes. In charge of the film are Richard Chase and Stuart Hildebrand.

The program series, as planned by Leyton Nelson, begins Tuesday in the Kellogg Center Auditorium. Tuesday is Sugar Beet Day, and will be concerned with discussions of problems faced by Michigan sugar beet growers. Included will be tips on producing top yields of high quality beets by following sound soil and crop management practices.

Topics include sugar beet varieties, prices, acreage and legislation, weed control, and fertilizers. Speakers are Percy Reeve, executive secretary of the Farmers and Manufacturers Beet Sugar Association; Hugh Eldred, executive vice president of the Monitor Sugar Company; Loren Armbruster, director of Growers Affairs, Farmers and Manufacturers Beet Sugar Association, and members of the MSU crop science department. The highlight of the day will be presentation of awards in recognition of outstanding sugar beet producers in Michigan for 1964.

Wednesday morning will bring a discussion on cash crops and small grains, explaining how to get the maximum profit from wheat and oats by using the right fertilizer and management practices and by growing adapted varieties. The speakers are members of the MSU Crop Science Department and a guest speaker, F. Martin, chairman of the Soils Department of the University of Minnesota.

The topic of the afternoon is "Cash Crops - Corn," and discussion will be on how to get highest possible corn yields through fertilization, variety, stand, insect control, irrigation, tillage, deep plowing and other management practices. Ray L. Jones, of the MSU Entomology Department will speak with other speakers from the MSU Soil and Crop Science Department. A question-and-answer period will end the day's activities.

Thursday, as the final day of the program, is to be a full day for the visitors, with lectures being given simultaneously in the Kellogg Auditorium and Lincoln Room and in Anthony Hall. The morning will be devoted to

general crop production and soil management, with discussions on fertilizers (blend, granular, premium and liquid), annual forage crops, micro nutrients, alfalfa and soybeans. Guest speakers are Robert Laser, Monroe

County agricultural agent, and George McQueen, Clinton County agricultural agent.

Thursday is also Potato Day and the annual meeting of the Michigan Potato Industry Council (MIPC).

## Did You Know That--

DID YOU KNOW THAT -- Farm cash receipts are the largest item in Michigan's economy each year with the exception of manufacturing with agricultural cash receipts last year amounting to \$840 million . . .

The milk check is the largest single item of farm income in the state, exceeding \$200 million annually . . . Among Michigan's earliest laws are those dealing with drainage, some of them stemming from when it was a territory . . . Michigan was the first state to have a compulsory milk pasteurization law . . .

The state's 100,000 colonies of bees produce between \$1 1/2 million and \$2 million worth of honey and beeswax a year, but they pollinate more than \$100 million worth of field and orchard crops . . . Michigan has long led the nation in red tart cherry production, sometimes more than 60 per cent of the total national crop; 1964 set a record with 170,000 tons . . .

The nation's first plant pest control law was enacted in Michigan in 1875, antedating the federal law covering this by nearly 30 years . . . Practically all of the nation's navy pea beans are raised in Michigan, more than seven million hundredweight in the record year of 1963 . . . Sales of livestock and livestock products constitute more than 50 per cent of the state's cash farm income . . .

Long the nation's No. 1 producer of cucumbers for pickling, Michigan last year produced a third of all the pickling cucumbers in the U.S. . . . Kalamazoo was the birthplace of America's commercial celery industry a little more than a century ago . . . Michigan stands third in apple production; a record 1 1/2 million bushel crop in 1964 . . .

## Many 'Days' Planned For Farmers' Week

"Potato Day," "Sugar Beet Day," and a special program on "modern corn production practices" will highlight the crops and soils program during the 1965 edition of Farmers' Week on the Michigan State University campus.

Special emphasis will be placed on pests and pesticides, the latest crop varieties, weed control, fertilization, marketing and equipment.

The crops-soils program gets under way Tuesday with "Sugar Beet Day." Included in the program will be the recognition of outstanding sugar beet growers in Michigan, a report on acreage controls and legislation and a summary of sugar test results of various varieties.

Wednesday, emphasis will be placed on cash crops. An entire afternoon session will be devoted to an exhibit of "modern corn production practices" which will include the latest recommended management techniques, hybrid selection, plant population, best date of planting, soil insects, irrigation and deep plowing.

All other major small grain cash crops will be discussed in another Wednesday session.

Thursday, the emphasis will switch to general crops and their fertilization. Included will be the pros and cons of various types of fertilizer and methods of hand-

ling, a report on annual forage crops for green chopping and the latest methods for boosting alfalfa and soybean yields.

Also on Thursday, specialists from eight different departments will combine efforts to report on the latest--and safest--use of pesticides. The rate of chemical dosage, residue and economic considerations will be among the items discussed in this session which offers a practical approach to pests and pesticide problems. A third Thursday session will center around weed control. A summary of the latest available pesticides and the equipment available to apply them will be among the areas discussed. At the conclusion of the session, a panel of farmers will narrate their personal on-the-farm experiences in the use of chemical weed control.

The entire crops-soils program will center around this year's Farmers' Week theme: "Golden Anniversary--from Progressive Past to Forward Looking Future."

## Spartan Gridders Outpulled Horses

The Golden Anniversary of Farmers' Week recalls many unusual--and amusing--events from years past.

In 1936, for example, Michigan State College's outstanding football team was matched against a championship team of horses in a horse pulling contest.

The football team won.



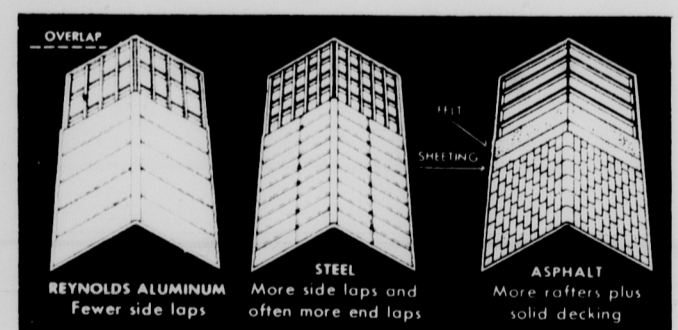
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When you're considering roofing or siding new or old buildings, consider Reynolds Aluminum for a value combination that traditional materials can't match: total building costs are low . . . average annual maintenance costs are lowest . . . the Reynolds product certificate protects you two ways instead of one . . . and, animal production efficiency is higher.



### 1. Your total building costs are low

You'll want to be sure of two things before you build: the quality of the materials and, of prime importance, what the total cost will be. And when it comes to total cost, your roofing and siding choice makes a big difference. For example, Reynolds Aluminum is as much as three times lighter than galvanized steel. The framing members of a Reynolds covered building can be fewer and lighter. Then, too, with 48-inch wide, long length Reynolds sheet you save side and end lap waste--up to 19% compared with galvanized.

Compared with asphalt your material costs are even lower because of extra rafters and solid decking.

What's more, builders confirm that labor costs to apply both asphalt and steel are higher.

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Steel needs painting and asphalt needs resurfacing over the years. Reynolds Aluminum doesn't--it won't rust, rot, or crack--ever! Scratches, nail holes, and shear ends can't start rust or other deterioration. When Reynolds Aluminum goes up, your maintenance costs go down.

### 3. You get a warranty that's twice as good



There is no risk or gamble with Reynolds Aluminum. You get a certificate that protects you two ways instead of one. First, all Reynolds roofing and siding is

warranted against defective material and workmanship and deterioration from exposure to ordinary atmospheric conditions. Second, you're guaranteed a continuous repurchase value that's recognized as loan collateral by banks and other lending organizations.

### 4. Your production efficiency goes up

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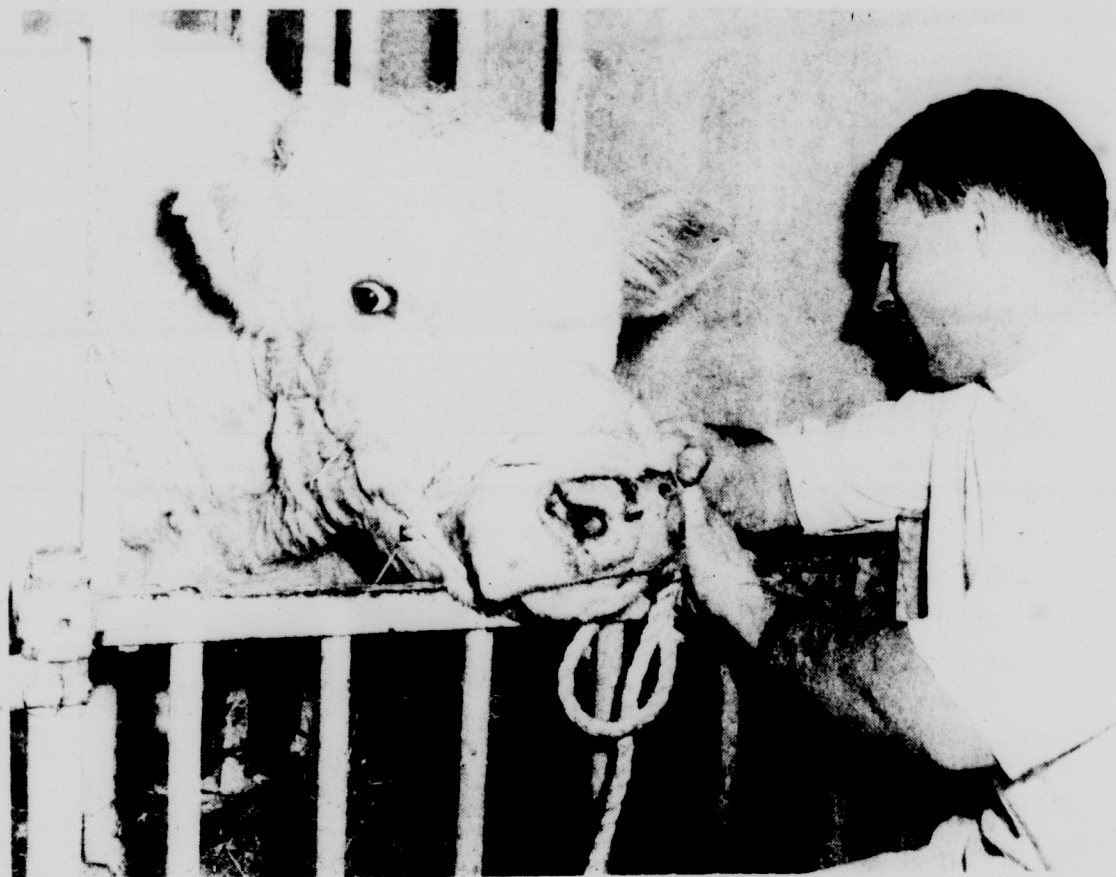
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# Livestock Progress On Display



EXAMINATION PERIOD--Health is important to animals as well as to their human owners. For this reason, the College of Veterinary Medicine exists. It maintains an animal hospital in Giltner Hall. Photo by Bob Barit

The MSU Dairy Department is sponsoring a complete program for Farmers' Week which includes topics ranging from dairy beef to liquid manure handling.

Activities begin today when the annual breed association meetings and luncheons are held at Kellogg Center. At 6 p.m., the All Breeds Banquet will feature A. C. Thomson, dairy cattle judge, classifier and farm manager. The 1965 Dairy Production Award recipient will also be announced at this time.

On Tuesday the many problems and consequences associated with herd expansion will be covered. Both the management and regulatory viewpoint will be covered by speakers from the Dairy and Agricultural Engineering Departments, and the Michigan Department of Agriculture.

Tuesday afternoon, a discussion of liquid manure handling systems will be held. Models and exhibits of systems now in use will be shown, and a Swedish farmer will explain how they are used in his country.

On Wednesday morning, the regulation of insect control to milk production will be discussed. Latest research findings on the use of pesticides in the total dairy program will be presented by members of the Entomology and Dairy Departments.

Wednesday afternoon's topic will be "Meat Production from Dairy Animals." Members of the Animal Husbandry and Agricultural Economics Department will speak, and a packing industry representative will consider the importance of dairy beef to the packing industry.

The Thursday program will highlight "Nutritional Keys to Higher Milk Production." A dairyman with a 16,700-pound milk average for a 75-cow herd will tell about his productive dairy program.

The Dairy Program will wind up Friday with the annual American Dairy Association of Michigan meeting in the Kellogg Center.

Larry A. Johnson, publicity chairman for Farmers' Week, invites student participation in the Dairy Program. He points out that there will be an open house all week at the two dairy cattle barns and at the Dairy-DHIA Data Processing Center in the Computer Center Building.

dairy supply firm, two auctioneers and on his home farm. Last summer he worked for Clinton Farms of Leslie and was in complete charge of a 16-head string of cattle. He competed in six county fairs, two Black and White shows and the State Fair.

Marks recommends this type of practical experience for other students, providing they are willing to work. He says, "My wide range of practical experience has enabled me to meet many people I otherwise would not have met. Several job opportunities after graduation have also turned up."

In dairying, as with all other majors, MSU classroom training is the basis for learning. But as these four students have shown, it is no substitute for practical experience.

feeding and milking the herd to helping with the birth of a calf, "Just call me Dr. Good," he says.

Bill Spike, Owosso senior, gains practical experience by working on his parent's farm with one of the top Jersey herds in Michigan. His job includes repairing machinery, trimming feet, clipping, milking and any other necessary jobs required to keep the farm running efficiently. By working weekends, Bill is constantly getting a chance to apply the things he has learned in class.

A city-raised youth, who "wanted to be my own boss and farm," turned to family friends for his farming experience. Jerry Wonnacott, a Detroit second-year veterinary student, began working on his friend's farm in Wisconsin, sweeping barns and feeding calves. He later worked in the MSU dairy barns feeding the main herd and finally wound up as a "regular milker." He feels that he has learned the bulk of his dairying knowledge through practical experience.

The most varied experience has been gained by Stan Marks, Clayton senior. He has worked with commercial dairy herds, a

## Farmers Week

## Experience: Key To Success

Four MSU students have discovered that practical experience is the key to a better understanding of today's dairy business.

The four students are all future dairy farm managers who have worked with dairy herds during summer vacations and while at school. Their work has resulted in a greater knowledge of the dairy field and excellent on-the-job experience.

Jerry Good, Caledonia senior, has gained much of his experience working with a herd of 90 Guernsey cows for the past eight years. Today he continues to combine practical experience with classroom study by carrying a full work load along with this term's 17 credits.

Good's day begins at 2:15 a.m. when he rolls out of bed to milk the MSU dairy's Jersey and Brown Swiss herds. He finds he must sandwich sleep in between classes, work and studying. Even with this schedule, he finds time to be president of the MSU Dairy Club and maintain a strong grade point average.

Good feels that by working while in college, students can retain the practical aspects of dairying. He points out that his job involves everything from

## Beans, Cherries, Apples Exported

What do exports of Michigan farm products mean to the farmer?

Export of products from the state are equivalent to 16 cents out of every \$1 of cash farm income received by Michigan growers, according to a survey by the Michigan Department of Agriculture's Marketing Section.

Chief among the exports are dry edible beans, cherries and

apples, but there also are sizeable exports of other products as well, says Agricultural Director G.S. McIntyre.

In 1963, the last year for which figures are available, Michigan exported 193,800,000 pounds of beans. In the 1963-64 shipping season apple exports totaled 222,501 bushels. About 18 million pounds of canned and frozen cherries also were exported in 1963-64.

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NEW ADDITION--This is an aerial view of the new Beef Cattle Research Center, which opened last fall. The newest of MSU's agricultural buildings is

located at the corner of Beaumont and Bennett Roads. Photo by Patti Prout

## Experimenters Watch 400 Cattle

Every morning 400 head of cattle hungrily await the arrival of the five MSU students who will relieve that hunger.

At 7 a.m. the cattle at the MSU Beef Cattle Research Center are fed, cleaned and bedded down, for they are being used in carefully watched feed and environmental experiments.

The purpose of these experiments is twofold, according to Herman W. Newland, associate professor of animal husbandry and director of research at the center.

By experimenting with different silages, the researchers hope to help cattle raisers solve their

current feed problems. Secondly, the researchers hope to help the cattle raisers be more efficient and competitive, that is, make more money.

The center, which opened in October, 1964, is located at Beaumont and Bennett Roads, about one mile south of the Chesapeake and Ohio railroad tracks. The students' charges, the cattle, are in 40 carefully controlled experimental pens.

The 787-foot center's other features include a feed unit for complete mixing of experimental rations, eight concrete silos with a total capacity of 1,500 to 2,000 tons of corn silage and three glass-lined silos with a total capacity of about 450-ton haylage, hay storage with a 150-ton capacity, cattle handling chutes and scales.

Current research, Newland said, includes comparisons of high-energy corn silage with regular silage, limestone -- and urea-treated corn silage with regular silage, alfalfa haylage with corn silage; the effect of vitamins A and E in cattle fattening rations; and breeds and grades of cattle.

The researchers set a weight goal for the cattle before the experiments begin. They keep carefully detailed progress reports of the cattle until they reach the desired weight. The cattle are then sold on the regular beef-cattle market.

The results of the experiments are compiled, published and made available to Michigan cattle raisers. They can make use of any of the findings and apply them to their own needs.

## From Farm To Farmhouse

How you going to keep them down on the farms, after they've seen MSU. This little ditty seems to apply to Farmhouse fraternity.

David Pirene, Chesaning senior, president of Farmhouse said that although 80 per cent of the fraternity members come from farms, few choose to return after graduation.

Education and research in the field of agriculture attracts more than the actual fields of the farm. Many are interested in soil sci-

ence, veterinary medicine and teaching.

Approximately 45 Farmhouse alumni are on the staff of MSU. Others head departments of universities around the country.

During Farmers' Week many of the active members will work on special displays and activities for organizations such as Dairy Club and Block and Bridle.

The 60 members will also play host to many returning alumni visiting the house during Farmers' Week.

## S.B.S. Extends A Welcome To All Participants Of Farm Week

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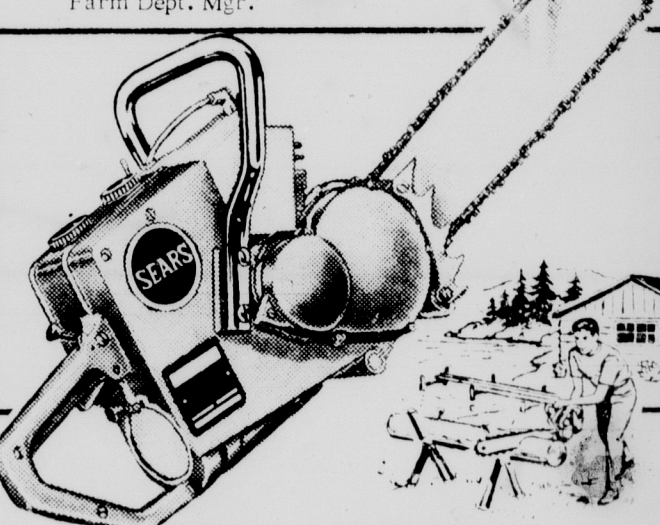
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## 50-Years Progress Marked In Swine, Sheep Nutrition

Farmers interested in the care and breeding of cattle, hogs and sheep are in for a glimpse of both the old and new during the 50th anniversary of Farmers' Week on the Michigan State University campus this week.

A week-long exhibit at Spartan Stadium will show 50 years of progress in the feeding and management of sheep and hogs. Live-stock fed rations recommended by MSU scientists 50 years ago will be featured along with ani-

mal husbandry department. Carcass hog entries will be judged today. Beef cattle meetings and the annual livestock show will be held Tuesday along with discussions of commercial flock rearing for sheep producers.

A host of livestock contests will highlight several of the daily programs sponsored by the MSU animal husbandry department. Carcass hog entries will be judged today. Beef cattle meetings and the annual livestock show will be held Tuesday along with discussions of commercial flock rearing for sheep producers.



WHOSE IS THE FAIREST?—A good question, but one which the judges will have to decide on. Sheep judging is just another of the many things an agricultural student can learn at MSU.

Photo by Russell Steffey

mals fed today's typical farm rations. MSU livestock barns will also be open to visitors throughout the week.

For the research minded visitor, the \$330,000 beef cattle research center dedicated last August, will be open for inspection. More than 40 different lots of cattle are currently being used in a variety of nutrition and management trials aimed at helping

both youths and adults will be held Thursday. Prizes will be awarded to 4-H Club and Future Farmers of America teams, individual youths, adult county teams and adult individuals.

Closing out the week's activities will be the 30th annual bred

ewe sale in the livestock pavilion. This event is the continuous all-breed sheep sale in the Midwest.

## Chicken Housing Probed

Poultry research by MSU takes on many forms to benefit poultry farmers.

Research is conducted here and at the University's experimental station at Chatham, in the Upper Peninsula.

At the poultry experimental station at Chatham, research is underway to study the effects of numbers in housing on efficiency of egg production of chickens.

Here at MSU, studies are being made on replacement pullets which are 20-week-old chickens, not grown by the egg producer, according to John H. Wolford, assistant professor of poultry science.

These studies are concerned with the effects of transportation on the birds when they are taken from the pullet raiser to the egg farmer. Tranquilizers are considered to reduce injury and stress on the birds and result in better egg production.

In a genetics study here, baby chickens are grown next to older hens to determine if there is a relationship between disease and environment.



MARY HAD A LITTLE LAMB--But this little lamb's fleece is certainly not white as snow. Mary Ann VanAken, Detroit freshman, likes to spend time with the woolly little creature in the sheep barn, but classes take up several hours and she can't be there as much as she would like.

Photo by Larry Carlson

## Directs Youth Activities

## Arnold Promotes Week

WKAR Farm Editor Dick Arnold is one of the leading figures in the promotion of this year's Farmers' Week. He not only backs the general outline of activities on his Farm Service Hour, 1 to 2 p.m. daily, but also directs the youth schedule, one of three areas the program emphasizes--youth, women and general.

The youth program, "Opportunities Unlimited," is aimed for high school- and college-age students planning careers in vocational agriculture and home economics. This year, for the first time, a special invitation has been extended to parochial schools.

Between 5,000 and 6,000 young people are expected on campus. Presentations Tuesday and Thursday, 10 to 11 a.m. in the Auditorium, will be as follows: Tuesday--Duffy Daugherty, MSU's head football coach, and the Rev. Carl Staser of Peoples Church. The Rev. Mr. Staser was a public speaking winner in past 4-H programs and writes a column for the Michigan Farmer.

Thursday--Lt. Gov. William Milliken, and Laurine Fitzgerald, MSU's assistant dean of women. Tentative musical presentations include the artists of the Cap and Gown Series, the MSU Bellringers, and a well-known folk artist.

Following the programs, career groups in 18 areas of emphasis will be formed and students will be able to gain deeper insight into their chosen vocation through panel discussions.

A panel of MSU juniors and seniors will discuss "College in

Your Future?" Thursday in the Kiva.

President John A. Hannah will give the only major speech of the week, "Agriculture at MSU in the Next Half-Century," Thursday, 1 to 1:45 p.m. in the Auditorium. WKAR will carry this 50th anniversary speech from a booth in the Agricultural Engineering Building.

The distinguished awards to agriculture will be given at this time.

Tuesday evening's program, "Accent on Youth," at Fairchild Theater, will feature some of the outstanding 4-H'ers from 1951 to the present. Arden Peterson, recreation specialist, will be moderator. WKAR will cover these meetings with follow-ups and interviews the following week.

At 10:10 a.m. Wednesday in the Auditorium, Monte Flett, director of the Meat Board in Chicago, will demonstrate meat cutting. This will be a live presentation with Flett wearing a tuxedo during the entire operation and a projection on a background screen by closed-circuit television to show detail.

Wednesday afternoon a workshop for leaders of youth organizations will present Dick Arnold, who will discuss "World Vista," a world-wide view of world understanding. Representatives of the Peace Corps will be included in the program.

Special computers to which farmers can present data on farm problems and resources and receive an analysis and instructions on how to alleviate these

problems will be displayed in the Agricultural Engineering Building.

A television tape of exhibits in the Agricultural Engineering Building will be made Thursday with hopes of national coverage.

## MSU Coed From China To Lecture

Jong-I Pan, Michigan State University doctoral student, will speak during Farmers' Week on the changing role of women in China.

Miss Pan, from Taiwan, will describe how, for the first time in China's history, women are sharing in family decisions. She will speak on February 4, at 10:10 in room 106 of the International Center.

In her Thursday morning discussion, Miss Pan will illustrate her talk with slides and examples of costumes, fabrics, and other objects of art.

A panel on Michigan home-makers' experience in Russia and Poland will be presented on February 4.

Panel members include Mrs. John Doneth, East Lansing; Mrs. Leonard Christensen, Traverse City; Mrs. Melvin Smith, Hastings; Mrs. Harry Oxender, Constantine; and Mrs. Wilbur Smith, Berlington.

The discussion will take place at 10:40, in room 108, International Center.

## Poultry Equipment Display Shows Old Versus New

Speakers and exhibits representing commercial and educational interests in poultry science will be available to visiting poultry growers here during Farmers' Week.

In the west concourse of the stadium will be exhibits on a mechanized cage system for the automatic feeding and watering

of birds, a feed mixing unit display and some Poultry Science Department research exhibits on nutrition and physiology.

The old versus the new in poultry equipment and housing will be on exhibit in the Men's Intramural Building.

A mink exhibit is also part of the Poultry Department's participation in Farmers' Week. The exhibit in the International Center will include some kind of mink garment--a coat or stole--pictures, raw pelts and tanned pelts.

The scheduled program for Farmers' Week in the Poultry Science Department begins Tuesday with speakers on the economic outlook for poultry growers in 1965.

Housing, equipment, feeding and marketing will also be covered on Tuesday.

Wednesday morning speakers on the commercial level will discuss pest control and production problems.

Thursday's program will include discussions by county extension agents with each giving a specific example of a successful poultry operation in his area.

Unifying efforts between the commercial, educational and practical levels in the poultry industry will be discussed at a banquet Wednesday night at Kellogg Center.

Thursday's program will be devoted to speeches on the National Turkey Federation and management problems of turkey growers.

Rabbits--like mink--are another non-poultry product found in the department.

Though they are generally a hobby rather than a commercial interest, John Wolford said, rabbits are of interest to many of the visitors to Farmers' Week.

Friday will cover marketing and production problems with rabbits.

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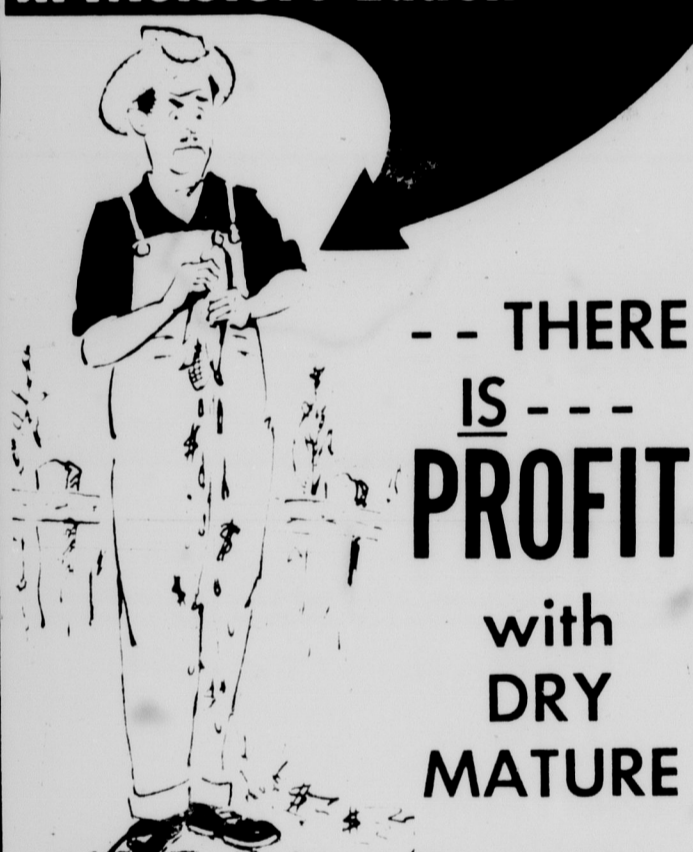
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## Past Resources Photographed

## Many Activities Occur

A major part of the second floor of the Union will be taken over by the Department of Resource Development for participation in Farmers Week.

The main topic for Tuesday's program will be recreation with the emphasis on outdoor participation, but not state or national parks.

Speaking on farm recreation liability insurance at 9 a.m. will be Lee Matthews, general manager of the Michigan Insurance Information Service, Lansing.

Bruce Reynolds, County Health Sanitarian, Lake City, will talk on "A County Health Officer Looks at Farm Recreation."

The department of Resource Development will have a 35-foot display with the theme, "History of Michigan's Resources." It will feature 40 photographs showing how resources of the past affected the use and management of resources today.

The photographs will date back to 1860, the oldest showing the pre-Civil War Jackson Iron Mine in Marquette County. They will be contrasted with pictures of today's plush resorts and modern agriculture and water uses.

"It fits in well with the 50th anniversary theme," said George Graff, assistant extension professor of resource development.

The first annual meeting of the Michigan Association of Rural Recreation Enterprises (MARRE) will be held at 2:15 p.m. Tuesday. It will present a nine-man "resource panel." The chairman is John C. Bantz of the MARRE steering committee.

The Department of Resource Development and MARRE will hold a joint luncheon at noon Tuesday in the Union Ballroom.

## Session Scheduled On Syrup

Modern techniques for boosting Michigan's maple syrup production and demonstrations for improving the safety and efficiency of harvesting Michigan's timber crop will be highlighted during the forestry and forest products sessions of Farmers' Week.

Wednesday is "Maple Syrup Day." Emphasis will be placed on cutting production costs while increasing market outlets.

Les Bell, MSU forester, will report on "Michigan Maple Syrup Production -- Backward and Forward." His talk will center around the efforts being made by Michigan producers to regain the production supremacy they held in years past.

Another MSU forester, P. W. Robbins, will report on the work of the National Maple Syrup Council and stress the need for group action in the Michigan maple syrup industry.

On Thursday afternoon, the Forest Products Department will offer reports on working man's compensation, insurance, log grading for increasing profits and two movies, "The Small Sawmill," and "Easier Ways of Logging," which provide tips on increasing production efficiency with emphasis on safety.

Featured during the sessions will be an exhibit of sawmill equipment in operation cutting hardwood logs in the south concourse of the stadium. Forestry improvement practices and land use and watershed management practices will be demonstrated in another exhibit in the east concourse.

In the stadium, a special exhibit will show the dependence of properties of wood upon its microscopic structure. Visitors can get the answers to questions about wood given to them in the form of photographs.



SIGN OF THE TIME--L.A. Peck, sign and poster artist, prepares a poster for the Farmers' Week golden anniversary exhibition. The poster is just one of many to be found around the campus this week. Photo by Bob Barit

## Forage Trials May Help In Making Variety Choices

Have you selected your forage varieties? If not, yield trials conducted by University crop scientists may influence your decision.

In the trials, Harold L. Kohl, found that Vernal alfalfa still reigns supreme as the top alfalfa variety. Lake City experiments showed that Vernal maintains a high yield over a long period of time, besides being very winter hardy and resistant to bacterial wilt.

At Lake City in Missaukee county, DePuits outyielded Vernal by a narrow margin over a two-year period. But the DePuits stand dropped from 81 per cent in May, 1963 to 17 per cent in May, 1964. Vernal only dropped to 40 per cent in the same period. "We found that other varieties do not combine good yield and persistence of stand to the extent that Vernal does," comments Kohl.

The MSU crop scientist also compared a number of sorghum-sudangrass crosses with piper sudangrass at East Lansing. He found that in three cuttings, the better varieties yielded from 5.98 to 5.42 tons of forage per acre on a 12 per cent moisture basis. Piper yielded 5.68.

"These were considered good yields in spite of the very dry growing season," says Kohl.

Winter rye was another variety tested by Kohl as a possibility for providing late fall and early spring pasture when other forages are not growing. This forage can also be plowed down to improve soil conditions.

"We found that Balbo rye has been the main variety used for these purposes in recent years,"

says Kohl. "Some new varieties are being tested both at East Lansing and at Lake City. Two or three are doing very well. They are more consistent from year to year in their yields, but are not equal to Balbo in certain years. They are still in the experimental stage and will be tested another year or two before recommendations can be made."

Another new variety among the forages which is showing up very well is a new rye grass which has not yet been released for commercial farmers. Developed by Fred Elliott, MSU crop scientist, the variety combines the high yielding and quick growth of annual rye grass and the winter hardiness of perennial rye grass.

## Everything From Fruit To Nuts In Talk Here

Want to learn how to get into the nut growing business? Interested in disease-free fruit plants? Is the roadside stand a good place to sell fruits and vegetables?

Both the backyard gardener and the large commercial grower will be able to learn more about these subjects at horticulture sessions during Farmers Week on the MSU campus.

Tuesday fruit growers will hear that the key to good fruit plant lies in getting disease-free nursery stock. They will also learn the importance of using good cultural methods, adequate fertilizer, good weed control and adequate thinning methods for more efficient production and high quality fruit.

Fruits to be discussed range from apples, pears and peaches to strawberries, raspberries and blueberries.

Those with a yen for nut growing -- on an amateur or professional basis -- will be told Wednesday that seven types of nuts are now grown in Michigan.

Varieties, cultural practices and marketing of Michigan-produced nuts will be discussed.

State growers now hope that the two leading varieties grown in the state--English walnut and Chinese chestnut--may someday be sold on a large commercial basis.

All potential fruit and vegetable growers interested in setting up roadside markets will want to attend the Wednesday program on roadside stands.

To be discussed at the session

will be such questions as legal aspects of the roadside stand, what varieties sell best, why there should be a diversity of items, and who are potential customers.

The nearly 50,000 expected Farmers Week visitors can view the horticulture plant analysis laboratory, the greenhouses, the 100-acre farm and the horticulture exhibits located in Spartan Stadium.

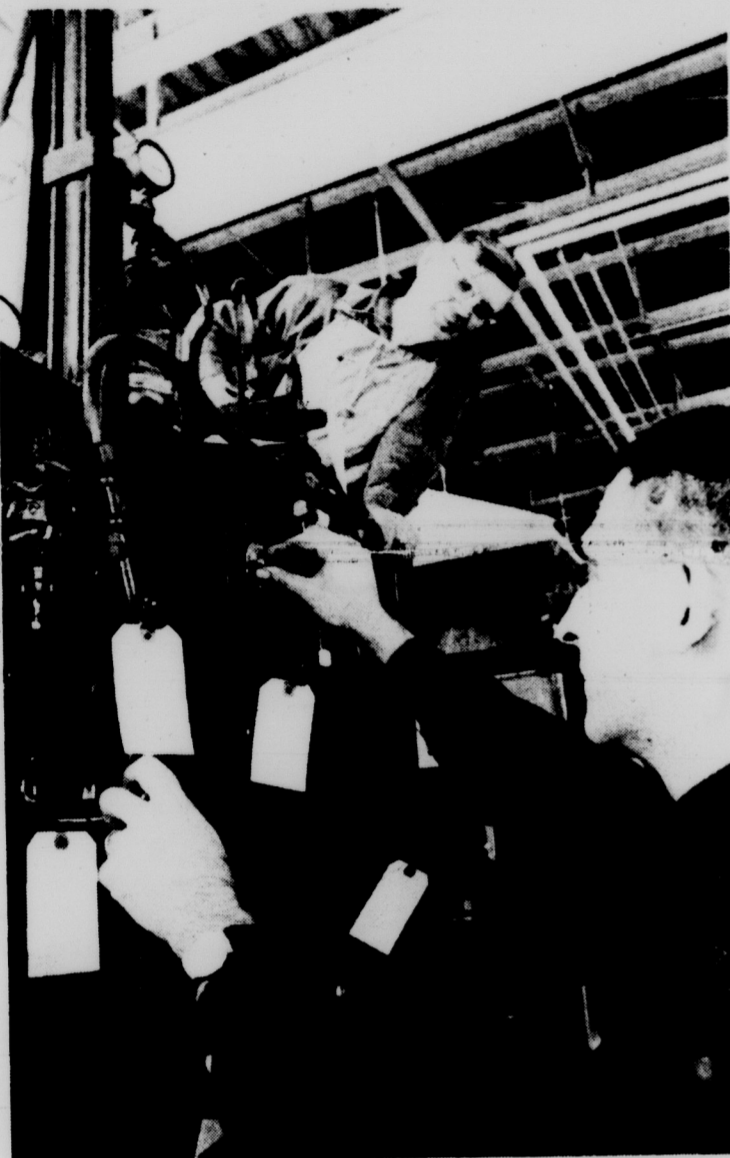
This year's exhibits will emphasize the broad field of horticulture and wide range of job opportunities in the field.

## Fisheries, Wildlife Film To Be Seen

The MSU Department of Fisheries and Wildlife will present two movies in the MSU Museum auditorium during Farmers' Week.

The movies, produced by the Missouri Conservation Department, are entitled "This is the Mallard" and "The Cottontail Rabbit" and depict the life span of the animals from birth to death.

The fisheries and wildlife exhibit, which will be under the eastern end of Spartan Stadium in the concourse, is entitled "Construction and Managing of Farm Ponds." It will show several points to consider when constructing a farm pond, such as recreation and service. The ponds are used for fishing, swimming, watering of livestock and the production of wildlife.



THIS IS A TEST--Tony Kaminski, graduate student from Moose Jaw, Saskatchewan, Canada, operates the controls of a soil-testing tractor as Gleen Shiffer watches from the tractor seat. The two work for the Department of Agricultural Engineering, which is currently doing research for the army. Photo by David Sykes

## Botany Exhibit Displays Control Of Bean Disease

Bean disease control will be the topic of the Botany and Plant Pathology exhibit.

Axel Andersen, exhibit chairman, said the three phases of disease control will be shown.

The first phase will concern primarily the treatment of seeds. On display will be an electrically operated seed treatment machine and examples of treated and untreated plants.

Varieties of breeding will be the second phase displayed. Bean mosaics showing some of the common bean diseases such as rootrot will be illustrated.

In the third phase the exhibit will show how disease-free plants may be certified. Andersen said they will show how the healthy plants may be separated from the diseased plants by placing both types together.

Also shown will be the biological control of disease. Andersen defined biological control as determining the control of the previous bean crop on controlling the present diseases.

## Biochem Tours Available

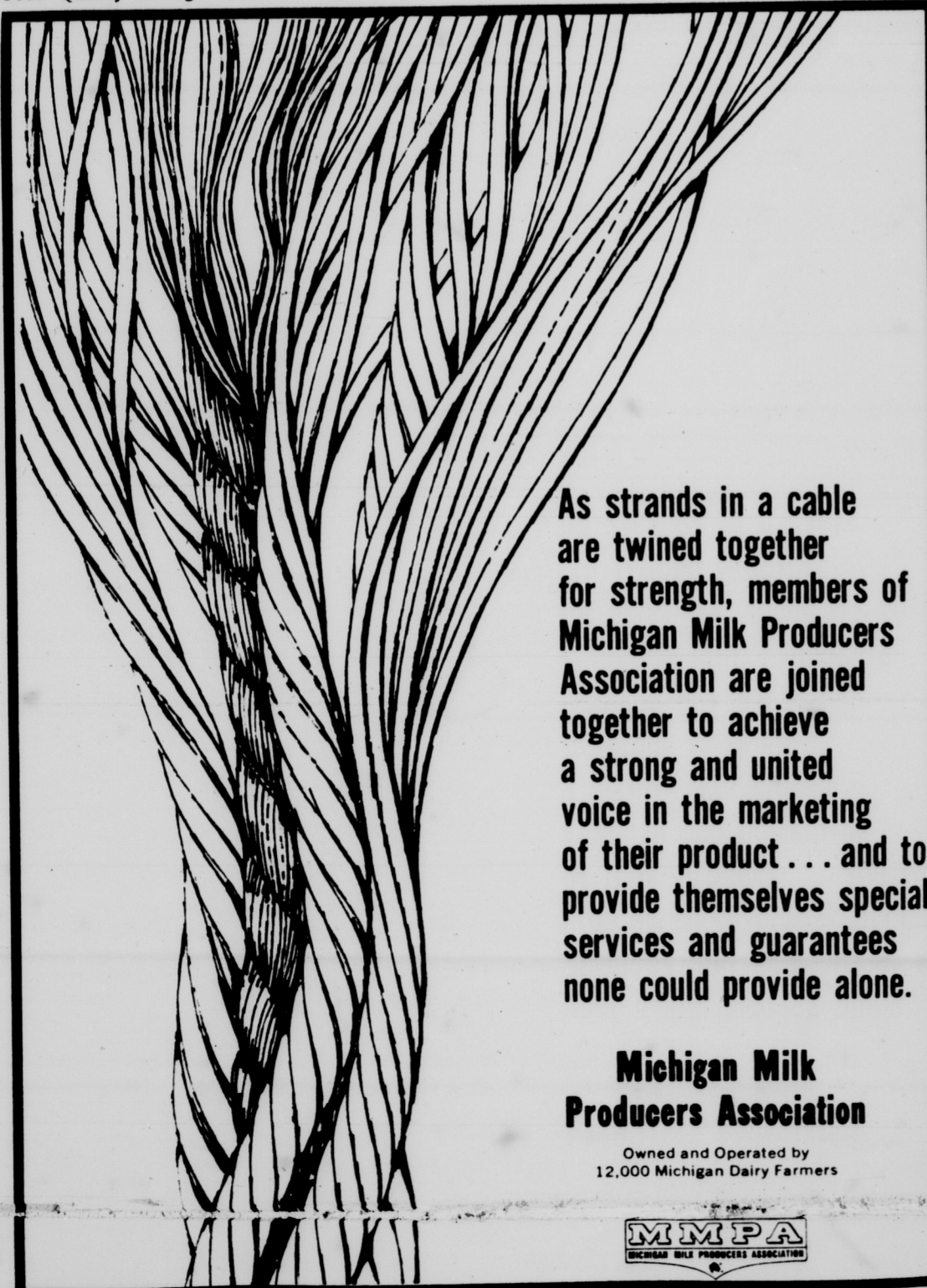
Tours of the Biochemistry Building will be offered during Farmers Week, according to Erwin J. Benne, professor of biochemistry.

Guides will be available afternoons from Monday through Thursday of this week. Practical products of research will be displayed in a foyer near the west entrance of the building. Afternoon tours will leave from there.

Besides classrooms and student laboratories, the building houses quarters for animals, research laboratories, offices, a library and shops.

The \$5 million building contains instruments and laboratory equipment worth \$1 million.

Biochemistry is the study of the chemical processes responsible for life. Research has produced widely used materials in medicine, agriculture and for the home.



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# Syrup Flavors Tree Sessions

By BRUCE SMITH  
The News Staff Writer

The MSU Forestry Department's contribution to Farmers Week centers around Christmas trees and maple syrup. Both programs will be presented in the Lincoln rooms, Kellogg Center.

Farmers Week displays will include seed selection for timber and Christmas tree production, tree plantation manage-

ment problems of fertilization and spraying for weed and insect control and Scotch pine, Douglas fir and white pine production in Michigan.

Tuesday will be devoted to Christmas tree problems, Wednesday sessions will study maple syrup problems.

Lester E. Bell, MSU extension specialist in forestry, and T.D. Stevens, head of MSU's Forestry

Department, are co-chairmen of the day's activities.

William Roe, national trustee and director of the Michigan Christmas Tree Growers Association (MCTGA), will present a report on the 1964 National Christmas Tree Growers Convention at 10 a.m. Tuesday.

At 10:30 Edgar Kidd, county extension agent, will moderate a panel discussion on "Handling In-

come Tax for the Tree Grower." Panel members are tree growers Fred Baner, Dearborn; Henry Dongillo, Fountain, and Lee James, MSU forest economist.

"Tree Planting Without Furrows" is the announced topic of a talk at 1:30 p.m. by Donald P. White, MSU forestry professor. He will be followed at 1:50 by John Trocke, Zeeland, MSU Cooperative Extension Service district marketing agent, who will speak on "Marketing Trees is More than Selling."

A panel moderated by Earl Buss, Romeo tree grower, will discuss "Increasing Sales by Coloring Trees" at 2:30. Howard Hunt, Saugatuck, and Allen Boelter, utilization and marketing specialist of Michigan's Department of Conservation, will be panel members.

Assistant State Forester Ronald Auble, will discuss "Public Assistance Programs Available to Tree Growers" at 3:20 p.m.

A MCTGA business meeting is scheduled for 3:45 p.m. Afterwards there will be a social hour and a chance to informally meet the day's speakers.

The MCTGA banquet is scheduled for the Kellogg Center's Centennial Room at 6 p.m. L. Walter Fix, W. Va., president of the National Christmas Tree Growers Association, will talk on "Marketing Our Product on a National Level."

The chairman of Wednesday's maple syrup program are Roy S. Skog and Lester E. Bell, MSU forestry extension specialists.

Beginning the day at 9:15 a.m. with a report on the work of the National Maple Syrup Council, will be P. W. Robbins, MSU associate forestry professor and national council secretary-treasurer. He will be followed at 10 a.m. by Margaret Doty, Mt. Pleasant, MSU Cooperative Extension Service consumer marketing agent, whose topic is "Marketing Maple Products in Michigan."

The future of the maple syrup industry will be discussed by Lester E. Bell and Robert Lamb, of A.C. Lamb and Sons, Liverpool, N.Y. They will discuss at 10:30 and 11 a.m. "Michigan Maple Syrup Production-Backward or Forward?" and "Is Plastic Tubing the Answer?"

E. H. Bulgrin, of the Forest Products Laboratory, Madison, Wis., will present a talk entitled "Log Grading Does Increase Your Profits."

The two movies that round out the program are "Easier Ways of Logging" and "The Small Sawmill."

## Michigan Farmers More Efficient

A Michigan farmer--depending on what he produces--is 3 to 20 times more efficient today than he was 50 years ago, according to a Michigan State University agricultural economist.

C. R. "Ray" Hoglund was speaking about the half century of agricultural progress which will be highlighted at Farmers Week on the MSU campus. And he cited improved technology, machinery and equipment as the main cause for the drastic reduction in labor requirements and production costs on Michigan farms.

"Fifty years ago, a farmer used 35 hours of his own time and 44 hours of horsepower to produce an acre of corn," he said. "Today, a farmer making full use of minimum tillage and herbicides can grow an acre of corn with only five hours of his labor and four hours of tractor power."

"And he produces an average of 72 bushels per acre today compared to only 27 bushels 50 years ago."

The MSU agricultural economist noted that a modern Michigan farmer can produce a bushel of corn in just four minutes--1/20th of the time it took him a half century ago. "If he hadn't become so efficient, it would cost \$3.10 to produce that bushel using yesterday's practices. The best farmers today produce corn for 80 cents a bushel."

Hoglund noted equally impressive improvements in hay production efficiency. "Where it takes 15 minutes to grow and harvest a ton of hay today, it took eight times that long 50 years ago," he said. "Without technological improvements, it would cost a farmer \$51, instead of the present-day \$20 cost to produce each ton."

Animal production efficiency has also been rapidly improving. Bessy produces milk more efficiently and at a lower cost today, thanks to research, herd testing and other improvements.

"During the past 50 years, milk production per cow has more than doubled, and the labor needed to produce 100 lbs. of milk has been reduced by more than 70 per cent," reported Hoglund.

"If dairymen were using practices of 50 years ago, it would cost \$9 to produce 100 lbs. of milk at today's prices. Costs today may range from \$3.50 to \$4.25 cwt."

Poultrymen have benefited by the technological change, too. Hoglund noted that the modern hen lays 195 eggs annually compared to 88 a half century ago.

"It takes four minutes today--compared to but 15 minutes yesterday--to produce one dozen eggs," he said. "Housewives would pay better than \$1 a dozen--or twice as much as they pay today--if there had been no improvement in egg production, practices and methods of housing."

## Peach Council To Consider Problems

Madam consumer is buying more and more processed peaches in Michigan. The reason: she's not totally satisfied with the fresh market fruit she is getting.

And institutional consumers--hotels, restaurants and other mass feeding establishments--are also becoming increasingly important market for the processed product. At present, these institutions account for about \$1 out of every \$4 being spent for food.

These are the critical potentials and problems will be discussed in depth at the upcoming meeting of the National Peach Council in Grand Rapids, February 6-10.

George Stachwick, consumer marketing expert at Michigan State University, explains that homemakers have been buying more processed peaches because they like the availability, uniform quality and convenience of this form of the product.

During the National Peach Council meeting, growers will learn about some of the handling and marketing processes developed recently to improve peach quality. "The importance of 'hydrocooling' as it enables growers to harvest and market fully mature peaches will be one of the items emphasized," says Stachwick.

These factors will be discussed at the council meeting by Joseph Foy, vice president and general manager, Spartan Stores, Inc.; Mary Ann Meldrum, MSU consumer marketing agent; and Kenneth Vallance, food buyer for the State of Michigan.

## Farmers Have New Way To Tap City Pocketbooks

Michigan farmers have found a new way to tap the pocketbooks of urbanites, but no one is sure how much the profits are.

The new money-maker is farm recreation.

One of the first projects the Michigan Association of Rural Recreation Enterprises (MARRE) will undertake during the coming year is a state survey. This will determine how widespread farm recreation enterprises are in Michigan according to Louis F. Twardzik, a specialist with Michigan State's Cooperative Extension Service.

Like farm recreation enterprises, MARRE is new on the Michigan scene. It will hold its first annual meeting Tuesday at MSU.

Otto Krauss of St. Joseph, industrial research executive for the Whirlpool Corp., will speak at a noon luncheon. Other speakers include William McGraw, Lansing, director of the Michigan Tourist Council, and William F. Krause, Muskegon Heights, a consultant with Recreation Economical Research, Inc.

MARRE was founded when 150 farmers interested in develop-

ment problems of fertilization and spraying for weed and insect control and Scotch pine, Douglas fir and white pine production in Michigan.

Twardzik said his office has been swamped with requests for information from farmers and that county Extension Service agents have received numerous requests.

Twardzik attributes the boom in farm recreation to two factors.

One is U. S. Department of

Agriculture programs which provide technical assistance and loans to farmers who plan to develop parts of their properties for income-producing recreation.

"The other, obviously, is that farmers are looking for other or additional sources of income," Twardzik commented. "A lot of farmers own wonderful natural resources that are currently unproductive."

Much interest is induced by publicity about campers being turned away from national parks, Twardzik added.

## Forest Products Sets Exhibit For Stadium

The Forest Products Department will present an exhibit in Spartan Stadium and a program in the Forestry Cabin as its contribution to Farmers Week.

Eldon Behr, of the Department said that because this is the 50th anniversary of Farmers Week, the exhibit is of a scientific nature to keep in step with the times.

"How Properties of Wood Depend on Its Structure" will be the theme of the exhibit.

The display will pose eight questions on the properties of wood and will be constructed so that the visitor may obtain the answer by turning the dial to the numbered question. After pressing the button for the ap-

propriate answer a shadow box lights up with a picture of the cell structure and an explanation.

The program on Thursday from 2 to 4 p.m. will feature two speakers and two movies.

L. F. Matthews, of Michigan Insurance Information Service, Lansing, will speak on "Workingmen's Compensation Insurance."

E. H. Bulgrin, of the Forest Products Laboratory, Madison, Wis., will present a talk entitled "Log Grading Does Increase Your Profits."

The two movies that round out the program are "Easier Ways of Logging" and "The Small Sawmill."



WHAT'S BUGGING YOU?--Willard Gross, Okemos graduate student, may be able to help solve that problem. Here he uses a gas chromatograph to check insecticide concentrations. The instrument is in the Department of Fisheries and Wildlife.

Photo by David Sykes

## Pesticide Research In New Budget Plan

Michigan State is well on its way to becoming the hub of pesticide research in the Midwest according to Gordon E. Guyer, chairman of the Department of Entomology.

Since a centralized facility is needed to house this research, a \$2.2 million building is a top priority item on the University's 1965-66 budget. It would contain greenhouses, laboratories and controlled environment chambers for testing pesticides and insect behavior under all kinds of conditions.

The research facility would also have special rooms for offices, spray testing, bio-assays, material storage and cold storage.

"Such a setup would provide the most efficient means of conducting research on diversified but related pest problems," contends Guyer.

The building would be the center of MSU's newly-launched Pesticide Research Center in which scientists from 17 different departments are already join-

ing forces to battle pests and measure side effects.

Entomologists are monitoring large-scale spray programs to measure residues in soil, water and food as a continuous effort to insure safety to "non-target" organisms.

Poultry scientists, entomologists and plant physiologists are working on methods for measuring effects of pesticides on living things.

Fish and entomology researchers are measuring the extent to which chemicals enter water and their effects on living organisms.

"The facility would also give us the opportunity to move our research out of areas where contamination or toxicity might be a problem," explains Guyer.

Agricultural Experiment Station directors from throughout the north central United States have already agreed that MSU should be the logical recipient of research money.

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Photo by Russell Steffey

## Congratulations To MSU For A Progressive Past And A Forward Looking Future

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Of Farm And Industrial Tractors From Massey-Ferguson

At Farmers Week

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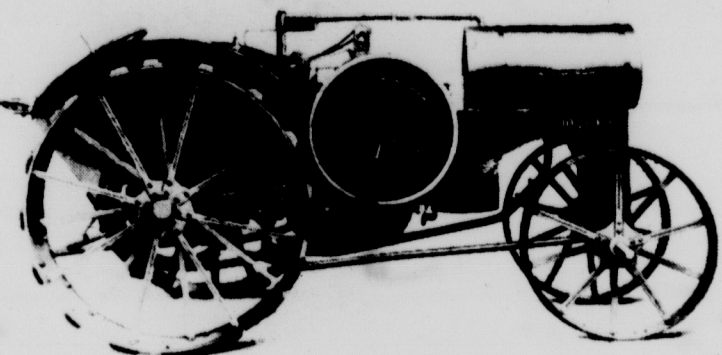
Lansing Branch

## School To Include Instruction

A flower show will be presented in the campus auditorium next Wednesday and Thursday by the MSU Floriculture Forum. "What's the Occasion?" is the theme of this 18th annual show. The show will depict holidays and seasons and their corresponding flowers.

A special attraction will be a flower design school Thursday, 7:30 p.m. The art of floral design will be demonstrated and top Chicago designer Miss Tommy Bright will be the commentator.

All students are invited to see the free flower show which will be conducted Wednesday from 12 noon until 10 p.m. and Thursday from 10 a.m. until 8 p.m.



IN BYGONE DAYS--50 years ago, when the first Farmers' Week was held, equipment like this was in use. Pictured here are a cultivator, an old tractor and a hay wagon. Modern machinery has taken much of the work load off the operator.



# Tractor Attains Acceptance In Its Field

By DICK JOHNSON  
State News Staff Writer

The most significant changes in farm equipment in the last 50 years have been the development and acceptance into general usage of the tractor and other farm machinery.

At the turn of the century horses were commonly used for plowing and for other farm chores, especially in the field. And the horse was not quickly replaced by the tractor, which had been introduced during the latter half of the 1890's.

"Farmers didn't want mechanization at that time," according to Clarence M. Hansen and Robert G. White, assistant professors of agricultural engineering.

"Their general attitude," White said, "was that a farmer who didn't work until he was tired at night wasn't a good farmer. Farmers were even criticized by their colleagues for riding a tractor implement rather than walking along side of it."

Traditional methods of farming were used, White said, and farmers were still using the same ideas, techniques and types of equipment used by their fathers and grandfathers.

Today the situation has changed. The farmer is now the brains behind the operation. He is respected by his colleagues and countrymen when he performs an operation in the easiest, most economical and efficient manner.

"The modern farmer is the one who can sit back and complete an operation by merely pushing a few buttons and pulling a few levers," Hansen said. "And this is true on both the big and the small farms."

"Mechanization has taken over," he said, "and the modern farmer who can't adapt is going out of business."

In the next few years, he said, all economically important crops will be completely handled and cared for by mechanization from the time of planting through the gathering and harvesting operations.

"The days of the farmer with all brawn and no brains are gone," Hansen said. "Today he must be a scientist and a chemist as well as a top mechanic, engineer and manager."

"It's the use of machines in farming which has made America a land of plenty," White said. "Our use of fertilizer and selective breeding techniques are not keeping us ahead of other nations. It's the efficient use of farm equipment."

The use of time- and work-saving equipment has increased our agricultural production, he said, but, more important, it has re-

duced the number of persons necessary to provide the food and fiber for the nation.

"This gives us more people who can spend their time in other occupations," he said, "such as in the production of refrigerators or cars or in education, journalism or medicine."

"If we still needed these people on the farms we wouldn't be the nation we are today. We wouldn't have the television sets, the super highways or the big cities."

Farm tractors were introduced near the turn of the century but they were not accepted for general usage until after World War I. Before the war, horses were used almost exclusively and during the war the tractors were competing with six and eight hitch horse teams for the position of power provider on the farm.

The government aided the transition from horses to tractors

## Snowfall Could 'Snow' Maintenance Department

Bad weather would give the people in the Grounds Maintenance Department some extra work this year during Farmers Week.

"A six-inch snowfall would put the entire snow crew (about 50 people) to work clearing 152,279 tons of snow," Burt Ferris, head of the Grounds Department, said Thursday. "Ice or sleet would make things even worse."

The Grounds Department is in charge of the maintenance of everything outside of the buildings on campus. One of their main jobs is to make sure all the roads and walkways on campus are clear. This would be difficult if bad weather chose to hit during Farmers Week.

"Less student drivers on campus will make the traffic problem much lighter this year," Ferris said. "Still, if any additional parking space were needed, that would be our responsibility, too."

Parking lots and other open areas would have to be cleared to take up any overflow.

Another big job of the Grounds Department is the disposal of all rubbish.

"The surge of people expected for Farmers Week will necessitate the placing of more 'load-luggers' all around campus," Ferris said.

when it requisitioned farm horses for use on the front lines and replaced the horses with tractors on the farm.

"This was the great transition between animal and machine power," said White. "And, as it often the case with important improvements, it came as a result of the war."

After the war, tractors were in general use on farms throughout the country. But horses were still used for many farm jobs. In 1924 the tricycle tractor was developed and it made the tractor more valuable than ever before.

The tricycle tractor made it possible to do many jobs which previously could only be done by horses. This development largely eliminated the necessity of the horse as a work animal. Most of the horses in the country in future years were to be used for riding only.

In 1930 the first power lift was installed on tractors. This made it easier to use the tractor-mounted implements which had been introduced with the tricycle tractor in 1924.

The next major development in the use of the tractor came in 1932 with the introduction of the rubber tire. The new tire made it possible to develop more horsepower with less weight than before and at a lower cost. Before 1932 steel wheels had been in general use.

The power take-off (PTO) was developed during the 1920's. This device utilized the tractor engine as a source of power for operating many machines pulled behind the tractor. Prior to that, the implement's wheels were the power source.

The PTO provided for an efficient transfer of power from the tractor to the machine. This had not been available before. The PTO made it possible to develop a multitude of accessory equipment which could be used with the tractor today.

The pull-type combine was developed and came into general use during the 1920's. During World War II, tractors and other farm equipment were not available except through special permission of the War Production Board (WPB).

During the war the multiple use of machines for different crops was established. The same basic machine was used for the various operations and crops with a few basic parts being changed for the different operations.

The self-propelled combine was introduced in 1938 and its use was firmly established with the "Harvest Brigade" during the war.

The Harvest Brigade consisted of a group of combines which began harvesting crops near the Mexican border in early June and

continued harvesting crops across the country, ending in Canada in late September.

The Harvest Brigade was successful and today custom combine operators continue the operation during the summer and fall each year.

The combine was the first self-propelled machine other than the tractor to gain general acceptance. Today there are many self-propelled machines.

Almost all non-self-propelled accessory equipment is operated from the tractor by the tractor operator. In early years it was necessary for an extra man on the equipment to operate it.

In recent years equipment manufacturers have been smoothing out and refining many of the early developments in farm equipment and have succeeded in mechanizing almost all operations on the farm.

Manufacturers and agricultural engineers are constantly trying to devise means of integrating and reducing the number of operations necessary in raising crops -- plowing and planting, picking and shelling of corn, etc.

The equipment is now planned around the operator. Ease of operation and the comfort and safety of the operator are the primary considerations. Much farm equipment is now provided with heaters and air conditioners. All include many built-in safety devices.

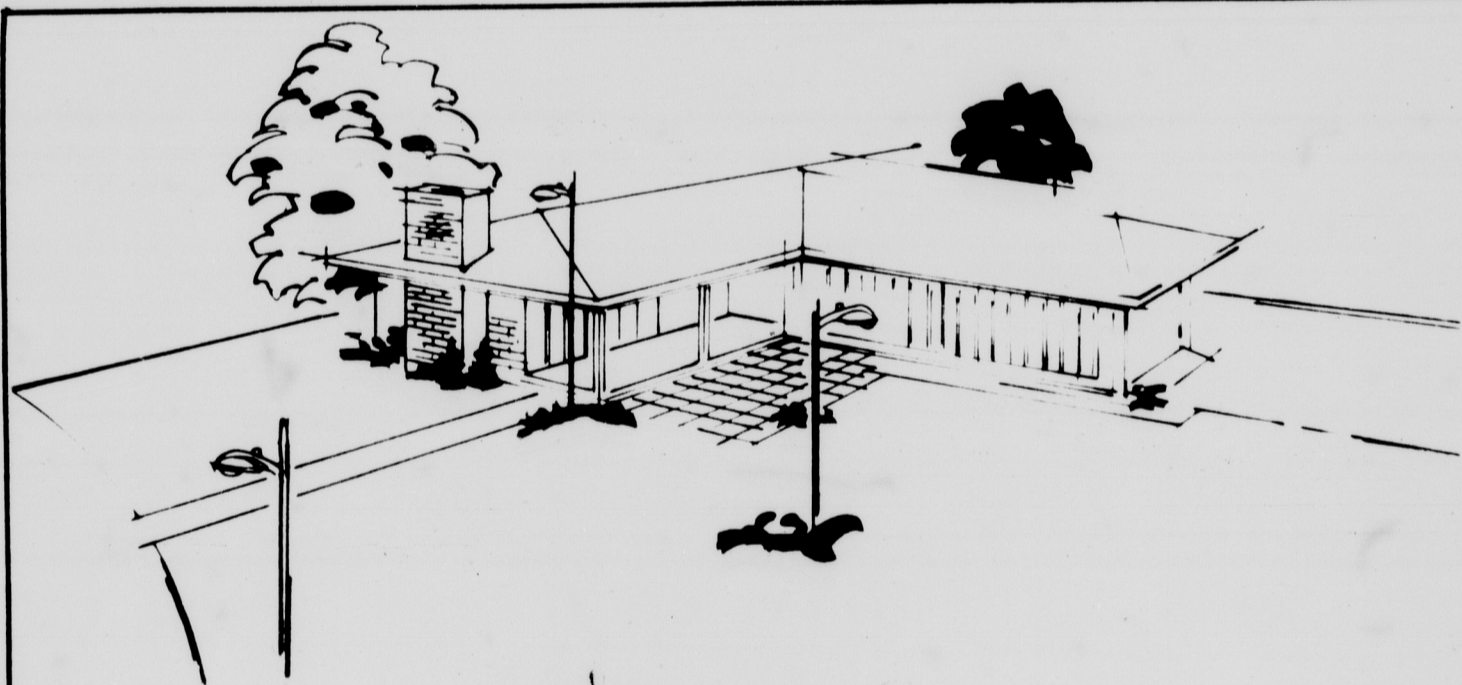
The latest development in tractors is the new four-wheel drive with integrated steering. This model uses four-wheel drive and either the front or the rear wheel or both can be used for steering.

This tractor sells for \$15-35,000 as compared with the typical plow of the early 1920's, the two-plow tractor, which sold for less than \$1,000.

Many of the daily chores on the farm are now done by machines-- scientific mixing and distribution of feed for farm animals, gathering, treating and transportation of milk, and the gathering and grading of eggs.

A display of farm equipment used over the past 50 years may be seen at the indoor baseball practice field at the Men's Intramural Building this week. The display will include a complete showing of modern farm equipment.

Two equipment manufacturers will show their 1965 tractors for the first time during Farmers' Week.

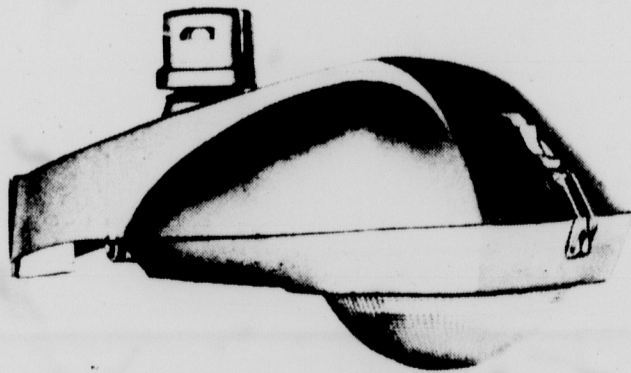
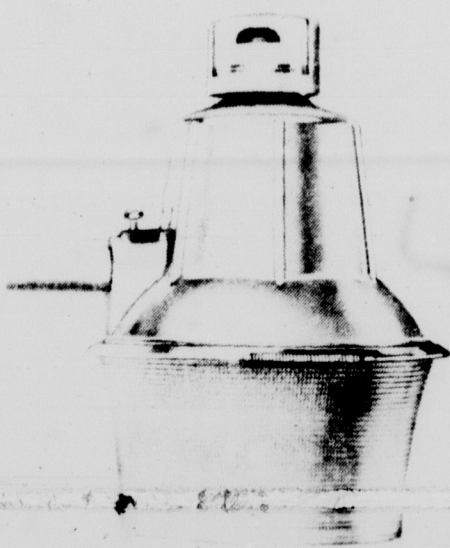


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# Extension Service Credo: Opportunity

By HOWARD C. MILLER  
Project Leader, Agricultural Extension  
and Research Information

"What a man hears, he may doubt;  
What he sees, he may possibly doubt;  
But what he does himself, he cannot doubt."

A half century ago, that statement summed up a new venture in education. It was made by a college professor after a battle with the cotton boll weevil. Demonstrations had convinced some skeptical Texas farmers how to combat a serious insect pest and save a crop. Seaman A. Knapp had found

yond the perimeters of the campus. This summer, farmers in many areas of the state faced devastating losses from army worms and other insect pests. Crop and insect specialists collected data on the movement of pests. MSU entomologists recommended control materials and agricultural agents passed

publications were distributed last year.

Where problems are concentrated in specific areas, district specialists supplement county efforts. Marketing and agricultural agents serve the fruit and vegetable areas of southwest Michigan and Traverse City. Latest tips on food buying are supplied to the public by nine consumer information agents located in the state's metropolitan centers.

## A Three-Fold Purpose

The Cooperative Extension Service helps people

-- Earn more money and use it wisely.

-- Develop individual talents and capacities.

-- Create more satisfying communities in which to live.

The entire state is the classroom. The course may be a workshop for young mothers in Caro, a forum for community planning in Jackson or a 4-H Club in Cheboygan. Last year, more than 700,000 requests for individual assistance came to the Extension Service. More than 30,000 educational meetings were held on topics ranging from feeding dairy cows to child development.

In addition, volunteer leaders in women's study groups, 4-H clubs and community organizations conducted 68,000 more sessions. Thousands more were within reach of radio and television, newspaper columns or publications, all tools of the trade.

Extension work is truly education in action. The true worth of the program can best be judged in terms of what happens to people. Extension leaders believe that a successful program is one that "teaches people to do things, not a system of doing things for people." A productive farmer or an efficient business may mean financial gain. But the added income can mean healthier, better-educated children who in turn will make contributions in the years ahead.

## Reaching Farm, Town, and City

When Congress passed the Smith-Lever Act in 1914, America was a rural nation. A majority of people lived on farms. The act provided funds through the U.S. Department of Agriculture to "... aid in the diffusing among the people of the United States useful and practical information on subjects relating to agriculture and home economics, and to encourage the application of same."

The Cooperative Extension Service operates under a "memorandum of understanding" between MSU and the U.S. Department of Agriculture. Traditional programs have stressed education on the farm, in the home, and with youth. They still do, but efforts have never been limited to these areas. As rural and

urban sectors continue to merge, so do the common problems of people.

Today a complex and interdependent economy and a merging of rural and urban areas demands a "broad brush" approach to educational programs. Audiences for extension programs include rural and urban families, farm and city communities.

## Spray-Calender

The Extension Service supplies Michigan fruit growers each year with a "spray calendar." It serves as a "Bible" for the myriad of pesticides used to control insects and diseases and assure a top-quality crop. A Saginaw sugar beet grower can get the latest crop and soil research results to help boost yields. A Lenawee County beef feeder adopts a new ration to get the best rate of gain. In Laporte, farmers learn how to plan buildings for better dairy herd management. Electronic computers formulate fertilizer applications for Shiawassee farms.

Examples aren't limited to the farm scene. In Muskegon, welfare families get tips on use of surplus foods, a meat picker in Battle Creek receives advice in merchandising, a potato chip manufacturer is able to improve quality control. Detroit's city market revamps and more Michigan produce gets in the shopping cart. Better housing is the aim of families in a Pontiac building clinic. A telephone recording gives the latest insect alert for gardeners in Dearborn.

In other programs, Barry County 4-H Club members boosted development of a community swimming pool. Upper Peninsula leaders organized to give the tourist industry a "shot in the arm" with a campaign, "It Pays to Know." This fall, dis-



SOUP TO NUTS--Maybe the range of extension service publication isn't quite that wide, but almost. Pictured here is material which will be mailed to someone who seeks to improve his knowledge on farm and home matters.

Photo by Larry Carlson

textbooks or credit courses for extension work.

Extension staffs depend on the guidance of local people to plan the curriculum. Working with each of the 79 county programs are committees or councils which meet regularly to determine priorities. Extension staff cannot hope to have all the answers. Although relying heavily on University resources, there is no hesitation to seek out other information sources or to make referrals. The coordinated effort in the Upper Peninsula is a case in point. Through a U.P. Field Services Committee, local institutions pool limited resources and help in bridging the mileage gap with downstate centers. The results have captured national attention.

Over a 50-decade span of Extension Services programs, there have been three major concerns: economic development, development of individual productivity and community betterment.

The major emphasis of the MSU Extension Service is focused on five inter-related areas:

- Agricultural production and management
- Marketing and utilization of agricultural products
- Home economics-family living
- Youth development and 4-H Clubs
- Community resource development

Benefits of educational programs in these areas accrue to everyone -- not just to farmers or rural families. While a new peach variety may help growers in Kent County, it also means a better product for a Bay City family. More efficient marketing of hogs helps an Allegan farmer but it provides to stier pork chops in a Sturgis supermarket. A project by an Alpena study group can result in community betterment. A Branch County meeting gives rise to a new building code. In each case the Extension Service has been a helping hand.

## "Ask Your County Agent"

The heart of Extension Service efforts is in county and community programs. Staffs are alert to new problems, many demanding ready answers. There are few



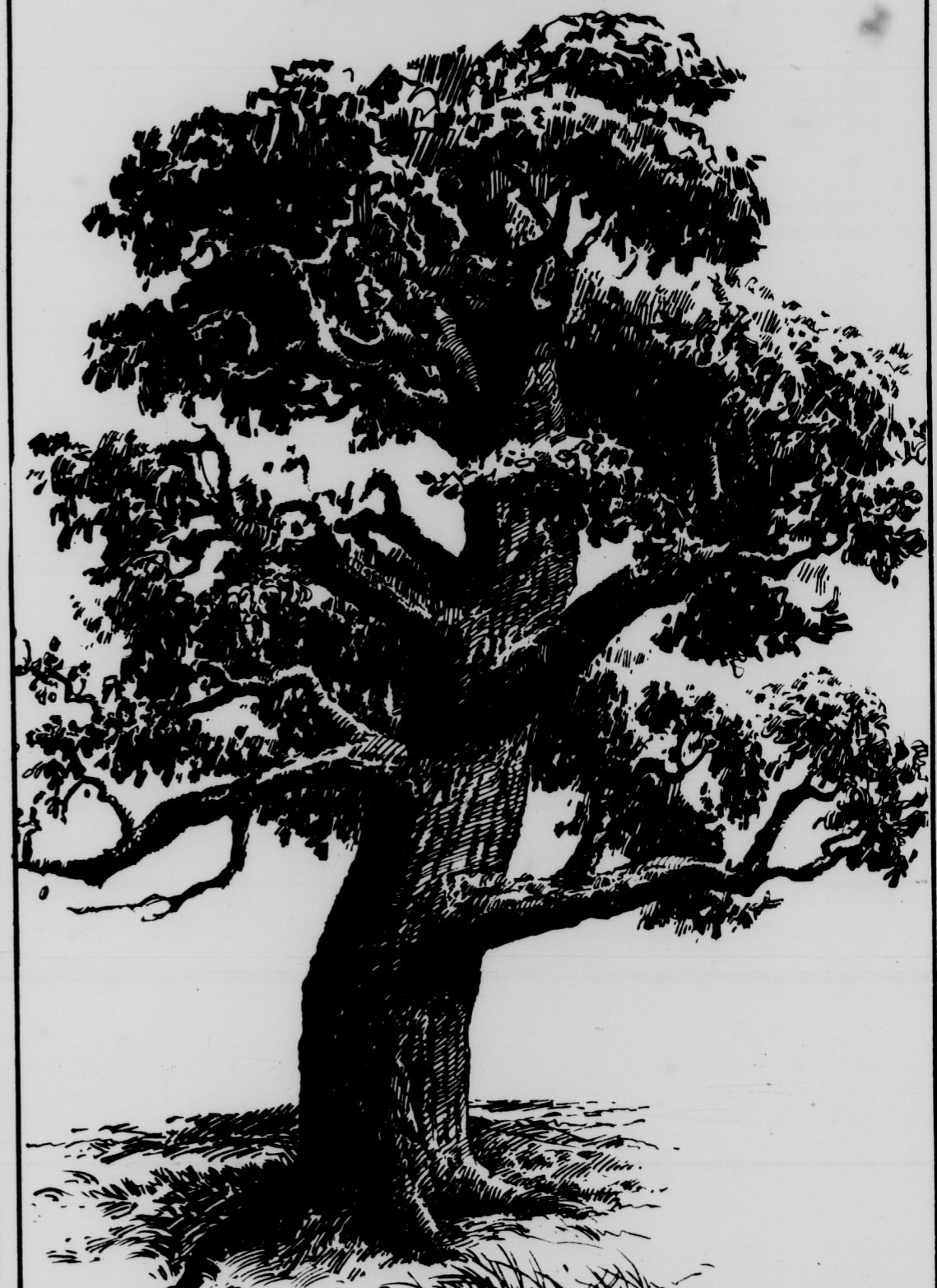
WE GET LETTERS--The publications department of the extension service gets many requests for publications. Here Mary Graham, an extension service secretary, opens and fills several of the requests.

Photo by Larry Carlson

The credo of the Extension Service over a half-century span has been one of providing opportunities for people. As the intellectual level of people rises, there will be need for well-trained staff members to stay abreast of needs and the explo-

sion of new knowledge. The answers of a generation ago will not suffice. Knowledge, the product of science and research, must provide the know-how to insure social and economic growth. Continued support of education seems a reasonable price in exchange.

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HUGE SUPPLY--The cooperative extension service has a large supply of publications on hand to help farmer's keep up with new developments and improve their knowledge. Here Alice Emerick, Mt. Clemens, junior, reads publications for mailing to outstate extension offices. Photo by David Sykes

the formula. It was simple but effective: Learning by doing. That idea has developed into one of the most far-reaching educational partnerships in history. It has served as a model around the world, particularly in the newer, emerging nations.

Officially the system, which celebrated a 50th anniversary in 1964, is known as the Cooperative Extension Service. The "cooperative" title is derived from the three-way financing by federal, state and county funds. It also stems from a kind of educational triad of the U.S. Department of Agriculture, state land-grant universities and local citizens. MSU is the land-grant institution of the triple partnership in Michigan. The program is headed by Director N. P. (Pat) Ralston, assistant dean of the College of Agriculture.

The knowledge and research resources of the University are extended to the entire state. County agents or a field faculty in 79 county offices, and another 100 campus specialists have multiplied efforts through the help of more than 35,000 volunteer leaders.

## Extending Knowledge

The Cooperative Extension Service takes the resources of the land-grant university far be-

on the timely information to avert disaster.

When celery growers in western Michigan were threatened with loss of markets to California, marketing specialists went to work to find answers. Growers organized to market a uniform, high-quality product under Michigan's seal of quality. The result? A million dollars of extra income for the celery men and a top-notch, home-grown product for Michigan tables.

Bridging the gap between MSU and its research facilities is a staff of nearly 100 Extension service specialists. Their specialties range from foods and nutrition to veterinary pathology, from forestry to home management, from youth development to economics. These specialists in some 23 departments of seven MSU colleges keep a close touch with new knowledge by rubbing elbows with other professors and researchers.

These traveling teachers conduct tours for farmers and clinics for businessmen. They also rely on the mass media of radio, television, newspapers and publications to distribute information. They are authors for some 400 pamphlets on dozens of topics distributed by the Extension Service. More than two million



"The Capital Moves to Lansing," reproduced above, will be shown for the first time.

## See A History of Michigan In Paintings During Farmer's Week 50th Anniversary

Be sure to see "A History of Michigan in Paintings," January 31 to February 6, in the lounge of the Student Union at Michigan State University. Commissioned by Michigan Bell, artist Robert Thom, of Birmingham, Michigan, has captured the life and spirit of other days in this series of paintings:

Before History--10,000 B.C. • Michigan Indians--Algonquian Village  
LaSalle and the "Griffon" • Madame Cadillac Arrives at Detroit  
Massacre at Michilimackinac • Americans Take Over Fort Mackinac  
Perry Transfers to the "Niagara" • Lewis Cass Expedition  
Douglas Houghton Finds Copper • The Capital Moves to Lansing  
Charles Harvey Builds the Locks



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THOROUGH COVERAGE--Noel P. Ralston, assistant dean of the College of Agriculture and director of the cooperative extension service, looks over a map showing the locations of county offices of the extension service. Photo by David Sykes

# Talent Show Features Former 4-Hers

By WILLIAM BANDURIC  
State News Staff Writer

"Accent on Youth," a program using selected talent acts dating back to 1951, will be one of the highlights of Farmers' Week.

Introduced in Michigan in 1951, the "Share-The-Fun" program is designed to show what has happened to 4-Hers through the years.

This year's program pro-

motes fun by using quality talent," Arden Peterson, chairman of the program and 4-H recreation specialist, said.

The theme of this year's program is "To Greater Loyalty."

This theme encompasses loyalty to self, family, 4-H, church, state, country, etc.

The six main objectives of this program are:

1- To develop and encourage participation in numerous creative 4-H activities.

2- To develop poise and confidence, and thus raise standards of general achievement.

3- To utilize native talent of 4-H Club members and assist in developing and improving that talent.

4- To provide wholesome entertainment for groups, and to bring the 4-H program of activities before many people.

5- To provide for participation in the "performing arts" and teach skills needed to be a good performer.

6- To provide the local 4-H Club opportunities to develop group activity among its members. The theme as developed each year offers ideas around which to plan.

There are 13 separate acts. Each act will be classified as instrumental, vocal, a dance, or dramatic novelty. Each of these four classes is further divided into large or small group acts.

Before each act, a biographical sketch of the performer will be presented.

Carol Leybourn Kenney from Ann Arbor will be the first performer. Mrs. Kenney first appeared in the "Share-The-Fun"

program in 1951 with a comedy routine. Since then, she has come to be regarded as a very fine concert pianist. She has performed on television and radio in both the United States and Europe.

Mrs. Kenney is currently serving her second year as president of the Ann Arbor Alumnae chapter of Mu Phi Epsilon, the international professional music sorority.

A piano duo will be performed by Valerie Strong Agresta and Annamie Stricker Secor. Miss Agresta was "Miss Michigan" in 1959, and has had her own television program in Traverse City. Mrs. Secor is now married and has a family. Miss Agresta and Mrs. Secor performed together in the "Share-The-Fun" program in 1952 and 1953.

Charlene Wright and Susan Zeck will present their "Char-Zan Theatre," a puppet show. Miss Zeck, a student at MSU, feels that her "4-H Share-The-Fun" experience has been helpful as a guide to finding an area in which she is interested. "She will be graduating in March with a degree in the theatre."

Judith Kukola, who performed in the Share-The-Fun program in 1954 and 1955, will sing and play the guitar. Mrs. Kukola now has a dance studio in Yale, Michigan.

One of Mrs. Kukola's students will appear in an acrobatic ballet act as the "Live Pretzel."



HOEDOWN TIME--Although MSU is no longer primarily an agricultural college, there is still much emphasis on the rural ways. For instance, the MSU Promenaders have done much to keep square dancing alive on campus.

Photo by Larry Carlson

## MSU Agriculture Programs Have International Flavor

There are presently 60 students enrolled in foreign agriculture at MSU representing 19 countries throughout the world.

Most of the students are either sponsored by the Agency for International Development (A.I.D.), or the Food and Agriculture Organization (F.A.O.) of the United Nations.

Adel Cortas, head of agriculture and economics with the Lebanese Ministry of Agriculture, is working on his Ph.D. in agricultural economics. He is one of six Lebanese students studying in the United States under the A.I.D. program.

His work here will give him the background to increase the efficiency in the administration and research of Lebanon's agricultural program. Clement Kohla from Liberia is studying agricultural extension. He is sponsored by F.A.O. and will return to the University of Liberia to teach and carry on field work with the extension people.

"Underdevelopment is one of Liberia's biggest problems," Kohla said. The methods of agricultural production are so crude that she cannot feed her people.

Oto Arantes from Brazil is studying dairy plant management in the Food Science Department. He is sponsored by A.I.D. and will return to Brazil to develop and plan agricultural programs for the whole country through the Technical Office of Agriculture

(E.T.A.) This office analyzes agricultural problems and develops programs to improve and increase food output.

Some of the students studying here are sponsored by individual governments and are involved in special group projects; others are supported by themselves or private organizations.

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On E. Michigan-A chip shot from Frandor And a "gimmie" putt from East Lansing.



BARN BUILDERS--George Zeilinger, Saginaw senior, and Gary Wermuth, Ithaca senior, talk over this model of a barn building with Merle L. Esmy, professor of agricultural engineering. Photo by David Sykes

### Industrial Classes Increase

## Ag Short Courses Offered

This year over 400 high school graduates continued their education at the sub-collegiate level through programs offered by the MSU Short Course department.

The Michigan Agriculture Society was instrumental in the founding of MSU and they insisted that the rural youth be given access to higher education. The

graduates of the Agriculture programs were not returning to the farms, so the short course program was instituted in 1894.

The department offers a young farmer program which prepares the student to return to the farm and operate it with scientific techniques.

The Agricultural Industry Program prepares the student for the industries of grain elevators, operations, floriculture, nursery and landscape or farm equipment sales and service.

The Young Farmer Program provides classes during Fall and Winter terms for 8 weeks each. During Spring and Summer terms the students work on the farm and apply their knowledge in this practical experience situation.

A certificate is awarded after the completion of the second year. The Agricultural Industry Program also provides for two terms of on-the-job training a year. The students attend classes Fall and Winter term. This is a two year program.

Courses in advertising, speech, psychology, and business procedures, are required in addition to the technical requirements. Classes are taught by instructors borrowed from the various departments of the university. This includes approximately 130 faculty members.

The trend in the last five years has been an increased enrollment in the Ag Industry Program. This is an indication of the decrease in the number of farms and a move to industry.

There has been a 100% increase in the number of students completing the two-year Young Farmer program. Dr. Henneman, head of the short course department, said.

## Help In Making Variety Choices

The young boy and girl who is making a decision today for tomorrow's career will have a better chance to do so if they attend the 50th Farmers' Week on the Michigan State University campus.

In addition to a busy week of speeches, demonstrations and exhibits, nearly 6,000 rural and suburban youth will take part in a special radio broadcast in the MSU auditorium on Tuesday and Thursday morning. Sponsored by WKAR and other radio stations, the hour long program features entertainment and outstanding speakers from all walks of life who will speak on the general topic of "Opportunities Unlimited."

Tuesday's featured speakers are Duffy Daugherty, head football coach at MSU, and the Rev. Carl Staser, parish minister of the Peoples Church in East Lansing. Lt. Gov. William Milliken and Laurine E. Fitzgerald, assistant dean of students and associate professor of education at MSU, will be the Thursday morning speakers.

Following the radio broadcast, the young people will break up into small interest groups and visit with MSU educators on careers in 18 different areas ranging from agricultural industry and secretarial administration to teaching home economics and engineering.

In the afternoon session, high school juniors and seniors who

are college bound will listen to a panel discuss "College in your Future." Other youth will visit the many varied and interesting exhibits located in the Stadium, Union and Auditorium buildings.

Youth will commemorate the 50th anniversary of Farmers' Week Tuesday evening with an "Accent on Youth" program in the Auditorium. The variety show will feature selected 4-H talent acts dating back to 1951 when the evening youth program was first introduced in Michigan.

### Concession Sales Up

## During Farmers Week

John Kennedy, manager of the concessions department and the Crossroads Cafe, sized up Farmers' Week recently when he said, "Next to football games this is our largest special event of the year."

In past years our business has doubled during this week, Kennedy said, and this year should be even busier because of our new building and more suitable location.

The old location, the South Campus Grill, could seat only 296 and was difficult to locate, Kennedy said, but our new cafe, Crossroads, opened last August in the International Center, can seat over 600 and is just a short walk from Anthony Hall, the Agricultural Engineering Building and the Judging Pavilion which will handle the bulk of Farmers' Week activities.

"Also we have to provide all special food services other than those provided by the Kellogg Center and the Union," Kennedy said.

Special services planned this year include the setting up of a concession stand in the east end

of Spartan Stadium. This stand will supply hot dogs, potato chips, cold drinks, candy bars and other snacks.

The stand will be open from 7:30 a.m. to 5 p.m. on Tuesday through Thursday and from 7:30 p.m. to 1 a.m. on Friday.

Another service will be to supply Anthony Hall with 500 box lunches each day for the benefit of persons attending meetings there.

In addition there will be 500 beef sandwiches, 15 gallons of coffee and 200 one-half pint cartons of milk available at the Auditorium Wednesday for those persons attending the Farmers' Week program sponsored jointly by the Department of Agricultural Economics and the college of Home Economics that day.

## Polish Farms Subject Of Talk

Farming and living in Poland will be the subject of a speech to be given by Richard Ross, Caro senior, Feb. 3 in Union Parlor C at 2:15.

Ross, a member of Farmhouse Fraternity, was one of four American youths selected as an international farm youth exchange delegate last year. The exchange program is an international program that Michigan participates in. It is sponsored by the national 4-H Club and a youth organization in Poland.

Ross spent six months in Poland last year studying farming methods. He lived on about six different farms and attended many seminars and workshops there.

In his speech, "Passport and Review," he will tell about his experiences and offer comments on how and why the Polish live and farm as they do. He will also mention Polish organizations in Poland.

Ross, a history major, is student teaching at Port Huron this term.

## "Congratulations

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# Farmers Week Features To Attract Homemakers

Homemakers will be given a glimpse of the past, present and future of exhibits and programs during the 1965 Farmers' Week at Michigan State University.

In recognition of the week's 50th year many special events have been planned by the Cooperative Extension Service. Farmers' Week sponsors

the new Center for International Programs and the new Center for Exhibits and Events which will offer the homemaker a world-wide look at

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representative of the American Dairy Association, is slated for Monday afternoon. Miss Jackson will introduce the homemaker to many new dairy products and dairy food substitutes.

Tuesday morning will be devoted to Michigan's young people. There will be outstanding speakers and entertainment on careers, goals and job opportunities in 18 career areas.

"Parents and Teenagers: Stop, Look and Listen" is the topic for a panel consisting of Thelma Hansen, Vera Borosage, Carol Shaffer and Eugene Piesner of the department of home management and child development at MSU. They will discuss why parents and teens often feel the others are "hard to live with." This program will be presented on both Tuesday and Thursday afternoons.

News in fabrics, fashions and color will be interpreted for the individual by Helen Wright, special field representative, Simplicity Pattern Co., in programs on Tuesday and Wednesday afternoons.

Wednesday's top attractions will be brought closer to the audiences by combining live presentations with closed circuit television.

"Of Meat and Might" will feature Monte Flett, director of meat merchandising, National Livestock and Meat Board, and Gale Mikles, assistant director of athletics, MSU. Flett will demonstrate the art of cutting a side of beef into retail cuts you can buy. He will answer questions on meat buying, prices, and preparation. Mikles will discuss health and physical fitness. Top MSU athletes will give a demonstration.

"Mother Hubbards Cupboard of 1965," with Theodore F. Irmiter, department of foods and nutrition, MSU, will offer a report on new foods on the market. How these foods affect convenience, time, money and nutrition will be considered. A soybean product which can be processed to have the texture of meat is one of the new products which will be discussed and demonstrated by Irmiter.

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**PILLAR OF LEARNING**--Agricultural Hall remains one of the most distinctive buildings on campus. The modern era, with its modernistically designed buildings, has yet to produce something to compare with Ag Hall's Beauty. Photo by David Sykes

## HEFL Staff Spreading Advances In Technology

Some people think women are born knowing how to manage a home. And they may think that homemaking doesn't change.

"This isn't so!" home economists in the MSU Cooperative Extension Service counter. "Technology of homemaking has changed almost as rapidly as technology in science, business, industry, agriculture and other fields."

Rapid change in today's world is having a dramatic impact on the way Michigan families live. And adjustments are not easy to make. For this reason, the home economics-family living Extension program -- celebrating its 50th anniversary with the rest of the Cooperative Extension Service during MSU's 50th Farmers' Week -- now shoulders a broad responsibility in helping families to meet the changes.

The home economics-family living (HEFL) Extension staff at Michigan State points out that: --in 1960, more than 200,000 Michigan families reported incomes of \$4,000 or less. Costs for direct relief and aid to dependent children are rising.

--Michigan statistics show 61,090 marriages for 1960 . . . and 16,656 divorces!

--In the last decade, juvenile delinquency in Michigan is said to have risen by 22 per cent. One out of every 18 babies born in the U. S. in 1963 was born out of wedlock.

--Limited education may mean limited opportunity. In 1960, more than a third of Michigan's adults of 25 years and over had not gone beyond the eighth grade.

What's more, members of the HEFL program staff observe, many young people marry without the knowledge necessary for a successful marriage and family life.

### Educational Gaps

The Extension Service home economics-family living program is aimed at filling some of the home- and family-related educational gaps created by our fast-moving society. Dedicated to the idea that our future is in the hands of the family -- the HEFL program brings Michigan families knowledge in family life, home management, housing, foods and nutrition, clothing and textiles, and a host of other areas that pertain to life in this complex, interdependent society.

What does this rapidly changing society look like? The HEFL staff describes it this way: --We are growing both older and younger. According to the U. S. Office of Aging, the number of persons under 18 and the number over 65 both increased almost twice as fast as the rest of the population in the last 10 years. This means that persons in their most creative, productive years are fast coming to make up the smallest segment of our population.

--We are growing, growing, growing. One prediction is that by the year 2000, we will be a nation of 329 million people. Michigan's population may reach 17 million -- more than twice that it is now. Already, increased population is causing problems in housing, education and employment.

--We are watching a massive movement of women from the home to the job market. Almost one-third of our married women hold jobs outside the home.

--We are on the move, socially and geographically. We move from community to community and from social circle to social circle. And this movement, educators say, creates a sense of rootlessness and insecurity in families.

### Changing Roles

--We are marrying younger. Almost 40 per cent of our American brides are teen-agers. --We are changing roles. Responsibilities of various family members may look funny. Men are taking on tasks traditionally feminine and women are assuming responsibilities traditionally masculine.

--We are an ever industrializing, automating society. Automation creates jobs for the educated but makes it necessary for those with limited education to be retrained for other kinds of jobs. Industrialization causes population movement from farm to city. It contributes to the growth of interdependence -- not only between farm and city, but also between community and community.

The HEFL program works through professional home economists called "home economics agents" in the Cooperative Extension Service offices in every county of the state. On the MSU campus, subject matter specialists in foods

and nutrition, home management, family life, clothing and textiles, home engineering and landscape architecture and related fields serve as resource persons to the agents by supplying them with the latest research information and helping them to plan and carry out local HEFL programs.

Each year, the HEFL program reaches 40,000 Michigan homemakers organized into home economics extension study groups and another estimated 1,200,000 persons through meetings, publications, newspapers articles and radio and television programs.

The 1964-65 Michigan-wide program aims at three important targets:

. improved housing and home environment for Michigan families

. more effective use of available money and other resources, and

. meeting the educational and training needs in Michigan communities.

These aren't easy targets to hit. And they can't be hit completely in any one year. Furthermore, an individual county may decide that a different target is more important locally than the targets outlined for the state. Such a county is free to go ahead and work on its most pressing problems. The three state objectives simply reflect what seems to be the most urgent needs across Michigan.

### Housing Costs Rising

Take housing. Extension specialists and agents have been concerned that the cost of housing has risen until many incomes are insufficient to assure families enough clean, healthy living space.

Until ways are found to lower housing costs, the HEFL staff feels it can make its best contributions by helping families repair and maintain existing housing. This fall, the Extension Service launched a series of home improvement classes designed to help families understand their housing problems and how to correct them within their economic means.

Extension is also working toward improved housing for senior citizens. One of the major aims here is to help people in pre-retirement years to prepare for changes in housing that will be brought about by their senior years.

### Environment Not Just Physical

Improved home environment extends far beyond the physical aspect of housing. It also consists of the calibre of family life within the home and the way the home is managed.

In the family life area, the HEFL program is placing **heaviest emphasis on understanding today's youth** and on the challenge of early marriage. For example, during Farmers' Week members of the MSU home management and child development staff are presenting two programs called "Parents and Teenagers--Stop, Look and Listen," designed to help parents and teens understand each other better.

### Home Management Revolution

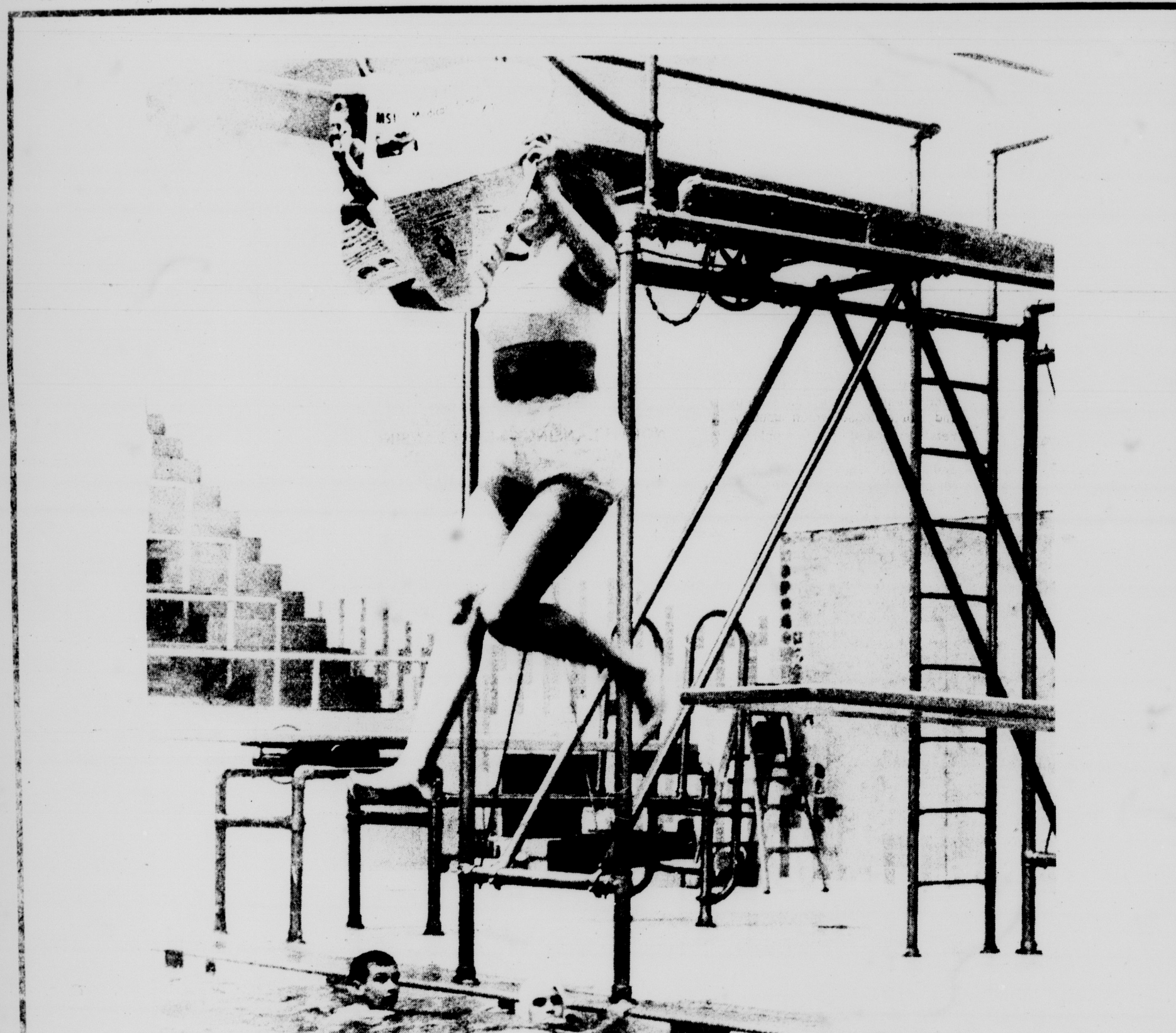
Home management has been taught to Michigan families by the Extension Service for years, but its changing nature augments its importance in the total HEFL program.

Little by little, Michigan homemakers are being introduced to the latest thinking in a difficult topic -- difficult, because home management today is concerned with philosophies, values and goals of families and with decision-making. Home management no longer means simply saving time, energy and money.

### Audiences Defined

The second major emphasis -- more effective use of money and other resources -- is not unique, perhaps, except in the audiences for which it aims. Target families are those most in need of this kind of information: disadvantaged and low income families, youth and young families, and older citizens.

Young families and older citizens are in those stages of the life cycle when they are apt to have less money than at any other time. And, emphasis is given to reaching young people because educators feel that teen-agers are most ripe at this age to learn management of finances and other resources.



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## 50 Years Of Fashions In Show

The farmer's wife isn't neglected during Farmers Week. The J. W. Knapp Co. will highlight the golden anniversary theme of Farmers Week with its "The Golden Age of Fashion" picturing a wedding reception of 50 years ago followed by a wedding reception of today.

Mrs. Jane Harrington Howard, commentator, will discuss current fashion trends at 1 p.m., Thursday in the MSU auditorium.

Displays will emphasize a series of scenes from Homestead, U.S.A., includes scenes from breakfast, coffee hour, shopping, gardening, schooltime and playtime.

The program also features fashion suggestions for entertaining at home, the concert, the gala formal party and formal receptions.

"Occasion Fashions" is presented by the J. W. Knapp Co. of Lansing and East Lansing in cooperation with MSU's Extension Clothing Project.

## New Food Products To Be Demonstrated

New food products are appearing on the market at an ever increasing rate. The saying that "grandma never had it so good" has become popular in this twentieth century.

Theodore F. Irmeter, Department of Foods and Nutrition, will discuss and demonstrate new food

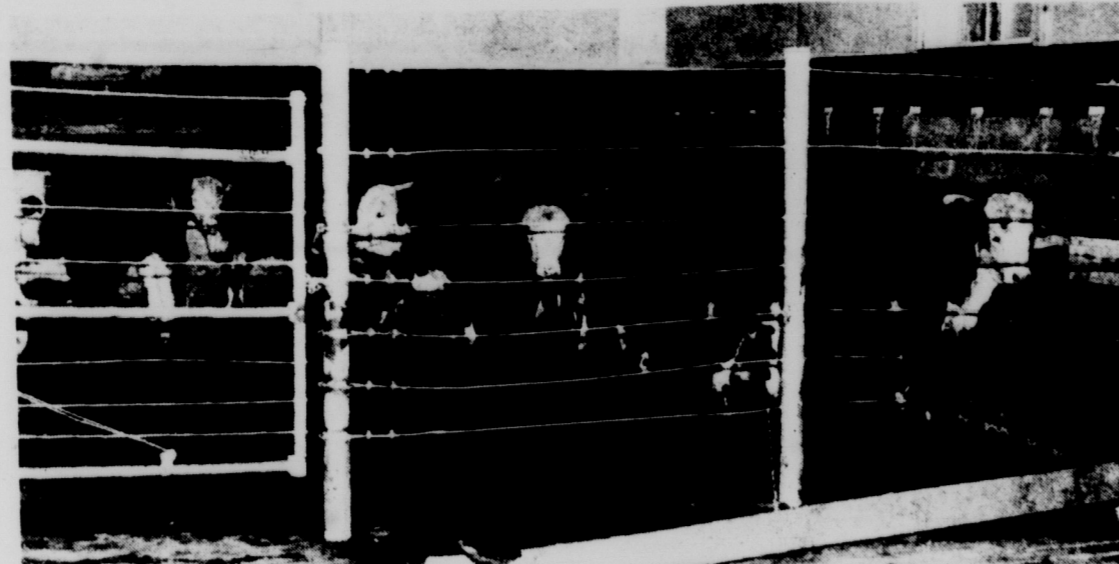
products at 1:10 p.m., Wednesday in the University auditorium.

Some new products are simply extensions of existing lines such as new flavors of gelatin dessert. Others represent a radical departure from present products.

Freeze-dried foods are a radical change from any product we have had before. Freeze-dried products were developed for the armed services and have been known for several years, but they are just now entering the consumer market. This process yields an excellent product and has advantages over other methods. Dr. Irmeter will discuss and demonstrate this method.

Another interesting discovery: soy beans can now be made into a product which looks like and has the texture of meat. The protein is first extracted from the soybean. The extracted protein is further processed by forcing it through a small nozzle to form a very fine fiber. Bundles of these fibers are then pressed into a meat-like product.

These are two examples of the many new products that will be discussed by Irmeter for the benefit of the homemaker.



DON'T FENCE ME IN--That may have been the plea these cattle made, but it happened anyway. These cattle are kept in controlled atmosphere for the purpose of studying the effect of close confinement on their behavior. Photo by Patti Prout

### Time, Tenderness, Money

## How To Buy Beef

By MARY ZEHNER  
MSU Home Economist

How do you decide which cuts of beef to buy? Time, tenderness and money are probably three factors you consider.

When time is of the essence, choose cuts of beef that adapt to broiling and panbroiling and require short preparation time, usually from 10 to 30 minutes. For broiling, select tender cuts of beef with little connective tis-

sue and some marbling of fat throughout the lean, as in rib, porterhouse, tenderloin and sirloin steaks.

Panbroil cuts that are sliced very thin—they will be juicier than if they were cooked on an open broiler. Steaks that are under 1 inch thick, ground beef patties, liver and cube or minute steaks are well suited to panbroiling.

When money matters most, consider cost per serving for a realistic guide to economy. Cuts vary in the amount of bone, fat or other waste which affects the number of servings to expect from a pound.

Cuts such as the blade or round bone chuck, the rump, heel of the sirloin, round roasts, and the bottom round steak are less-tender cuts of beef and usually cost less than the tender steaks and rib roasts. They make up 74 per cent of the beef on the meat counter and they do not sell as rapidly as the more popular, more limited tender cuts. But they also vary in amount of waste and cost per serving.

When considering choice tender steaks, those yielding a greater number of servings per pound—such as top round and the cube—are more economical than such steaks as the rib, sirloin and porterhouse which usually retail at equal or lower prices.

In roasts, the bottom round, rump and sirloin retail for more than the rib roast, but are a better buy on a cost-per-serving basis since they yield more servings per pound. These are fine examples of how cost per pound may be deceiving when determining the best buy.

## Meat Tips, Migyanka Scheduled Wednesday

Steak may cost more than hamburger, but the nutritional value is the same.

The fastest way to ruin a steak is to cook it too fast.

You can't really be sure beef is tender until you bite into it.

These are a few examples of the helpful information that will be passed on to homemakers by Monte Flett, Flett, who is merchandising manager of the National Live Stock and Meat Board, will present a meat cutting demonstration at 10 a.m. Wednesday in the University auditorium.

Flett will carve a side of beef into retail cuts. Homemakers will learn how to get more for their meat dollar. He will discuss meat quality, waste, cost comparisons of different meat cuts, meat cooking, and the importance of food in providing physical fitness.

Closed circuit television will project the demonstration on a large screen giving everyone a front seat view of the meat cutting process.

Heading the "might" part of

the program will be Gale Mikles, assistant director of athletics on campus. A demonstration on health and physical fitness will be presented by Mikles and Charlie Migyanka, captain of the 1964 Spartan football team.

Ted Malone, Farmer Peet's roving reporter on radio, will serve as master of ceremonies. Door prizes will be given.

Tickets for "Of Meat and Might" are available without charge. See Mary Zehner, Department of Agricultural Economics or phone 355-2288.

## Sausage Isn't All Baloney

There are more than 200 varieties of sausage -- and that's not all baloney!

"Sausage is minced, ground or chopped meat which has been smoked, spiced or dried," reports Miss Mary Zehner, Michigan State University agricultural economist. "It is usually stuffed into a natural or artificial casing or container."

She points out that fresh sausage in its many forms is not cured or smoked, so it must be refrigerated and cooked thoroughly before serving. And it must be used in three to four days.

Uncooked smoked sausage, such as Polish sausage or Kielbasa, must also be cooked before serving, but it will keep in a refrigerator up to one week.

"Cooked smoked sausage, such as frankfurters, bologna, cocktail-franks, knackwurst and cooked salami, has been completely cooked and smoked so it can be eaten cold or heated," says Miss Zehner. "It should be kept no longer than a week in the refrigerator."

"Cooked sausage products, such as liver or blood sausage, and cooked meat specialties, such as the many luncheon loaves may or may not be cured or smoked. But they are thoroughly cooked so they are ready to serve. They should be used within a week."

Miss Zehner adds that dry sausage, such as dry salami, cervelat and pepperoni are highly concentrated and ready to serve. If refrigerated, they will keep up to 2 weeks as slices or several months in sticks or casing.

### Communications To Be Displayed

Direct communications within the home, between the house and barn, and between cars is a great time saving device and very convenient for the busy, modern family.

A direct communications exhibit will be on display this week in room 103, Agriculture Engineering Building. The intercom system on display may be used for communication between rooms, from the house to the yard, or between buildings.

A home music center exhibiting 500 record, tape recorders, and phonographic equipment will be operated and explained.

## Homemakers Program To Answer Questions

Do you want to know more about parent-teen relationships? Are you curious about family life in other countries? Are you looking for information about new fabrics and new foods?

If so, the homemakers' programs for Michigan State University's 50th Farmers' Week, Feb. 1-5, can answer some of your questions.

Anyone can attend Farmers' Week on the MSU campus in East Lansing. All the educational exhibits and events are free.

Monday, Feb. 1, features a look at Michigan Farmer magazine with Marilyn Horvath providing sidelights about what it's like to be home editor of this state publication. Mary Jackson, American Dairy Association, will discuss, "What's Happening to Dairy Foods?"

Tuesday's program is a trip for homemakers: a hat show, a discussion of parent-teen relationships by members of the MSU Department of Home Management and Child Development; and a presentation on what's new in fashion, fabrics and color.

Radio personality Ted Malone and Monte Flett of the National Livestock and Meat Board highlight the Wednesday morning event, "Of Meat and Might." Here, homemakers can learn about meats and physical fitness via a program that combines live performers and closed circuit television. The TV screen will help the audience see close up

what is happening on the stage of the MSU Auditorium.

"Mother Hubbard's Cupboard 1965" is the title of an afternoon program also using the closed circuit TV. Theodore F. Irmeter of the MSU foods and nutrition

department will tell about foods of the future and evaluate today's convenience foods.

On Thursday, homemakers can learn about family life as it is in Taiwan and behind the Iron Curtain in Russia and Poland.

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### CONGRATULATIONS! FARMERS WEEK AT MICHIGAN STATE UNIVERSITY

We are proud of you. The Beet Sugar Industry of Michigan salutes Michigan State University and "Farmers Week" for 50 years of invaluable contributions to Michigan Agriculture.

We of the Beet Sugar Industry of Michigan are proud also of the role we have played in your fine program. And, as your University has grown and prospered and contributed, so have we. In an average year the Beet Sugar Industry of Michigan will derive from \$25,000,000 to \$30,000,000 from the sugarbeet crop. From this crop Michigan sugarbeet growers will receive approximately \$15,000,000 in company and conditional payments . . . ample evidence, we feel, of the truth of our slogan: "Every time a sugar beet grows—so does Michigan."

Again, best wishes. We look forward to another 50 years of mutual progress, cooperation and success.

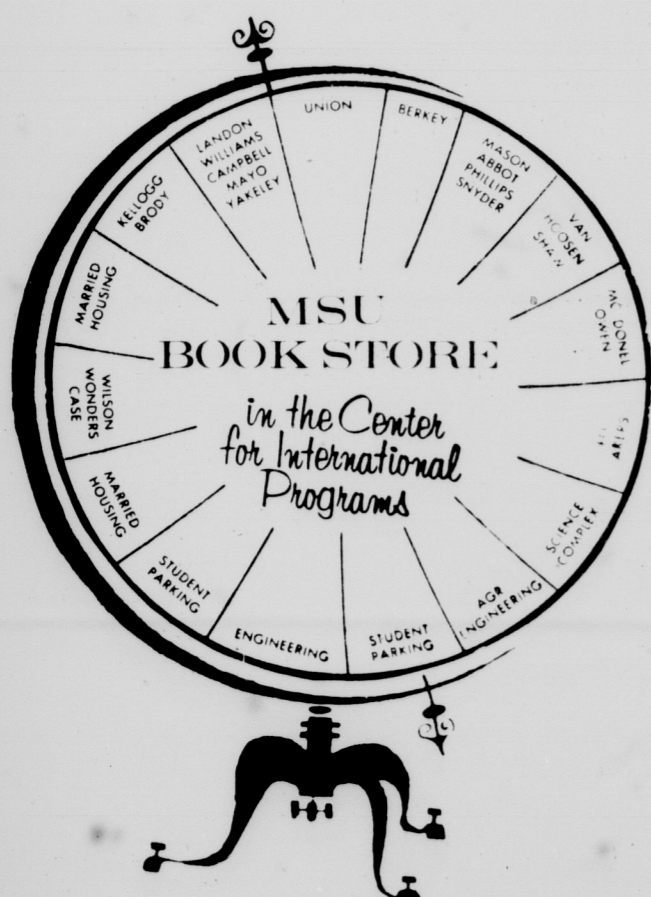
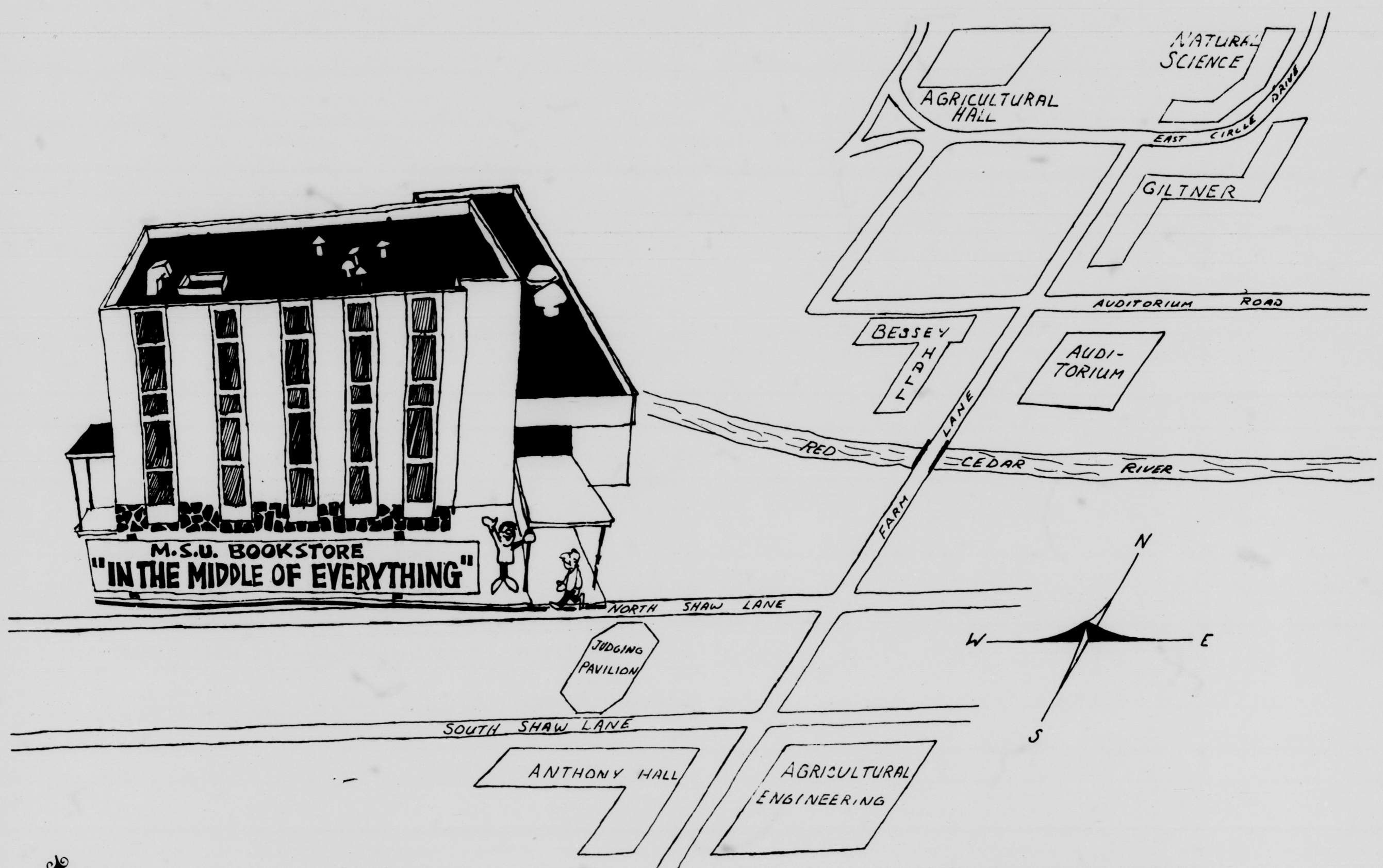
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