

STRONG CURRENT sends a group of men down a River in Poland as they toward their destination. The raft made by holding kijaes together, and

the paddles are in the air to catch the wind. See the story on Poland, written by an MSU student, on page 2.

Dr. Wittwer

AEC Works on MSU Campus

Atomic Energy Commission has been working hard in East Lansing since 1950 in the field of foliar feeding.

Dr. Wittwer, who is considered one of the leading authorities on the subject of fertilization of the stems and leaves of plants, is leading the university

horticulture department in its work. Ever since the AEC assigned the work with strontium 90 and 90 in the university, much has been found out about the advantages of this type of fertilization.

Absorption is much more rapid and efficient than through the roots where as much as 85 percent of the nutrient may be lost to chemical reactions in the ground.

Some nutrients such as calcium and iron tend to pile up in the leaf after absorption.

Young leaves absorb all nutrients more rapidly than old leaves. Both leaf surfaces function in absorption.

In the interest of spreading this knowledge to other sections of the world, the AEC appropriated \$25,000 to the horticulture department to make a color movie of their past work.

Hubby-Wife Team to Talk

Research in creativity will be discussed by a husband-wife team of researchers, psychologists from MSU at the Sixth Congress of the Inter-American Society of Psychology meeting in Rio de Janeiro this week.

Dr. Harold Anderson, who is treasurer of the organization, will give an invited paper on "Creativity and Invention in the Process of Aging."

Dr. Gladys Anderson will discuss the process of the teacher as seen by adolescent children in five countries. This is part of the Andersons' study of more than 3,000 children in seven countries.

While in South America, they plan to continue their research by studying children in Brazil and Argentina.

In Argentina, Dr. Anderson will also deliver invited papers before two professional societies. Before the Argentina Psychological Association, of which he was recently named an honorary member, he will discuss "External and Internal Criteria of Creativity."

He is consulting with MSU physicists. Dr. Brossel was educated at the University of Paris and the University of Manchester, England, where he received the Ph.D. degree.

Foliar feeding is probably as old as any agricultural operation designed for crop improvement. Yet, only recently has the practice attracted world-wide attention.

During the past seven years over 100 papers on foliar feeding have been published in Japanese and an equal number in the German language. Two books on the subject have already been published by Soviet scientists, and a special conference on non-root nutrition has been scheduled for 1959 in Leningrad.

Nutritional disorders of celery in Michigan are readily corrected by foliage sprays of calcium and magnesium salts where soil applications are ineffective and impractical.

In Hawaii 75 to 80 percent of the nitrogen applied to the pineapple plant is in the form of sprays. In many plantations all the nitrogen is sprayed on the leaves.

Leaves and other above-ground parts of plants are effective organs for absorption of nutrients from sprays. Studies with radioactive isotopes show that all nutrients absorbed by plant roots can also be taken up by the leaves, stems and fruits.

Isotope tracers permit labeling of foliar applied nutrients so that in the plant they may be identified from those already present or absorbed by the roots at the same time.

Foliar feeding is an important milestone in agricultural progress and additional practice will occur as soon as its limitations and usefulness can be established through research.

The two Russians are scientists in the field of zoology. One is with the Museum of Zoology at Moscow State University and the other is with the Zoological Institute of the Academy of Science of the USSR in Leningrad.

The specimens that are being exchanged are typical of both Russia and the United States. The Russian species of birds, fish, squirrels, mice, field mice, shrews, and moles differ from species in the U.S. Yet, while the difference is great enough to be interesting, each species can be easily identified with its cousin species in the U.S.

All these mammals, along with the fish and birds, are obtained from all parts of Russia.

Dr. Jean Brossel, who is a consultant this summer for Bell Telephone laboratories, lectured at 10 a.m. Monday in the Physics-Mathematics building conference room on "Nuclear Magnetic Resonance of Optically-Oriented Mercury Nuclei."

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Three agricultural engineers at MSU have won national recognition for their work in engineering extension activities. Awards for their work were presented at the recent meeting of the American Society of Agricultural Engineers at Cornell University. Both awards were in the annual extension exhibits competition.

Winning a blue ribbon from the society for their publication, activity were Dr. Donald Brown and Professor Dennis Wiant. Their entry was a bulletin entitled, "Lighting Your Home."

Another blue ribbon award went to Allen Butcher, agricultural engineer, for his entry "Electricity at Work" in the radio and television class of the exhibits competition.

Dr. Edward Barnet To Direct Program

New Food Distribution Head Prof From Northwestern U.

Dr. Edward Barnet, an educator of national reputation in the field of executive development, will become director of the curriculum in food distribution Sept. 1.

Prof Blatt To Present 2 Papers

An MSU physicist has accepted an invitation to give two scientific presentations at the International Conference on Physics of Solids this week in Melbourne, Australia.

Dr. Frank Blatt, associate professor of physics, will discuss research he carried on jointly with Dr. Meyer Garber, assistant professor of physics, Dr. Richard Kropschot, former graduate student, and Burton Scott, graduate student.

The project, which was supported by the Army Office of Ordnance Research, concerns thermoelectric and electrical properties of alloys.

The other paper concerns theoretical work done jointly with Heimit Satz, graduate student. It is about conduction in very thin films and wires.

On his return, Blatt will attend the American Physical Society meeting, Aug. 27-28 in Honolulu, Hawaii.

Blatt, a member of the physics and astronomy department since 1956, will conduct research at Oxford University, England, under a National Science Foundation grant for a year, starting in September.

MSU Museum Gets Species From Russia

Russian scientists in Moscow and Leningrad are now exchanging typical birds, fish, and mammal specimens of Russia with the MSU museum.

Dr. Lincoln Bettis, assistant professor of natural science, met the two Russians while he was touring Russia with a group of other professors.

After Dr. Bettis' return, the MSU museum started to exchange correspondence with the two Russians. The correspondence was in the form of printed material and bulletins.

He also directed the advanced management program of Creole Petroleum Corp. in Venezuela. He has been management consultant for such firms as Marshall Field, Midland Chemical, Alderson Associates, Inc., American Institute of Baking and McKinsey and Co.

He joins Prof. Charles Killingsworth, director of the Labor and Industrial Relations Center, who is the other faculty member on the panel.

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HIRAM FONG, 52, is the Republican senator-elect from Hawaii. Fong, a businessman, will be the first person of Chinese descent to serve in Congress.

In Bread

New Method Of Irradiation At Museum

Atomic energy may pay its debt to society by preserving food for the world's starving millions. A comparatively new and unexplored idea is to use radiation for preserving foods.

A slice of bread enclosed in a plastic bag has been in the MSU museum since June, 1958. The bread is perfectly preserved and entirely edible. Prior to being placed in the museum, the bread was bombarded with atomic rays. The intense vibration produced by the bombardment caused the destruction of bacteria.

The purpose of this and similar experiments is to develop a method of preserving foods in natural condition. Irradiation, as the process is called, is an improvement over canning in that vegetables and meats need not be cooked.

A comparatively small dose of radiation will prevent the sprouting of potatoes in storage. Cherries can be treated in cellophane bags and kept longer than with sterilization. The surface sterilization of meat may well turn out to be one of the first large-scale applications of irradiation in the food industry.

The main objective in irradiation is that foods develop unpleasant flavors.

"Irradiated foods have a flavor development that is not acceptable to the general public as a whole," stated C. L. Bedford, professor of the Food Science Laboratory.

In spite of extensive tests, all evidence thus far accumulated indicates that irradiated foods cause no toxic reactions when eaten.

Food treated with radiation eventually decays. Food spoilage is caused by outside agents such as bacteria and by the action of internal enzymes. Irradiation kills surface bacteria, but does not stop the action of these internal enzymes.

Many foods lose color when treated with radiation. Cherries and apples become a grayish white. Green coloring in meaty vegetables disappears and meats develop a grayish caste.

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MSU Initiates New Service

Engineering Curriculum Gives Liberal Arts, Too

A new program in engineering for international service at MSU may go a long way toward eliminating some of the "Ugly American" criticisms of overseas projects.

While the engineering student electing this program learns his specialty, he will also learn something about the language, history, economics, geography and politics of the country where he expects to work.

"Thousands of American engineers have gone overseas with little or no knowledge of the language, history and customs of the foreign nation," reports Dean John Ryder of the College of Engineering.

He points out that when the Russians send out technical assistants they speak the language and are familiar with the region where they are to work.

Michigan State's engineering for international service is a five-year program in which the engineer receives not only the bachelor of science degree but also the bachelor of arts.

In the first two years the student takes the usual engineering courses. In the third, fourth and fifth years the remaining engineering courses are pursued along with liberal arts courses.

Students will specialize on one of the fields of engineering—agricultural, chemical, civil, electrical, mechanical or metallurgical—but will also take courses appropriate to the region of the world where they plan to work.

Under the new program the engineering student may study such subjects as: the Mohammedan world, Middle Eastern peoples and cultures, history of the Far East, comparative religion, geography, the U.S. in world affairs, economics of the Far East, Europe or Latin America, and native peoples in world affairs. There is also a 21-credit requirement in foreign languages.

The engineering for international service program is offered by the College of Engineering in cooperation with the College of Science and Arts.

Dean Ryder emphasizes that preparation for international service is not the only field which can be combined with engineering under the new approach.

He explains that some students may want to combine engineer-

Chapel Serves All Religions

Alumni Memorial Chapel on the campus of MSU serves any and all religious denominations.

The small brick chapel on east campus was dedicated on June 7, 1952. Catholics, Protestant, and Jewish church officials participated in the ceremonies.

On the main floor of the chapel there are seats for 200 and the balcony accommodates 40.

Mr. O. W. Mourer donated a Pels organ consisting of 133 pipes and 25 chimes. The organ

dedicated was on the first anniversary of the chapel.

Among many other gifts were stone fragments from bombed-out churches in Europe, stained glass windows, and a combination altar.

The combination altar was a gift of Mrs. Glenn Stewart whose late husband originated plans for a chapel on campus.

Mr. Malcolm Dickenson of East Lansing is sexton of the chapel. He stated that the building is privately financed by the Alumni Association.

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ing with business, education or other fields. In such instances, two-degree programs will be individually arranged with the appropriate college to meet the needs of the students.

Wapstra Of Holland Visits Here

Dr. Aaldert Wapstra, considered one of Holland's foremost experimental nuclear physicists, is a distinguished visiting professor this week.

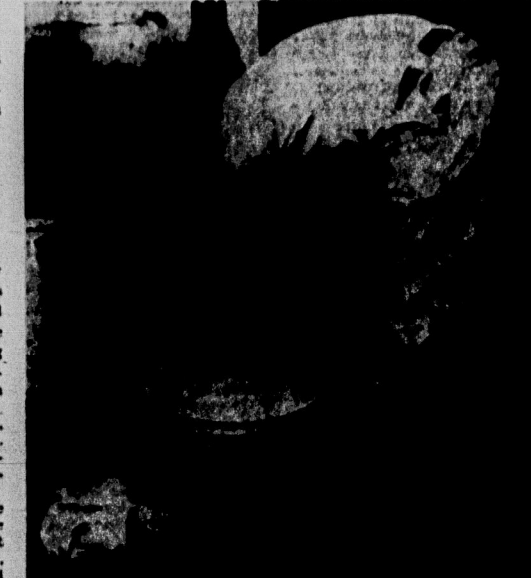
Dr. Wapstra is giving lectures daily at 10 a.m. in the Physics-Mathematics building conference room. He is also discussing mutual problems with members of the physics and astronomy department.

Born in 1922, Wapstra received the Ph.D. degree at the University of Amsterdam in 1953. He has been a professor at the Technical University at Delft, Holland, since 1956 and has carried on research in the Institute for Nuclear Physics, Research, Amsterdam, since 1948.

In the school year, 1956-57, he was a visiting research professor at California Institute of Technology. This summer he is a visiting physicist at Argonne National Laboratory.

Dr. Wapstra is best known for contributions to a deeper understanding of the forces which hold the atom's nucleus together. This was done through his summary of nuclear masses and experimental work in internal conversion.

He is also well known for experimental work in the non-conservation of parity. His work in this field has improved understanding of the properties of one of nature's fundamental particles, the neutrino.



THE ADMINISTRATION building gets a face-lifting. Painters, carpenters, electricians and other workers are giving the building a complete overhaul.

ITTLE ROCK, ARK. policeman with a choke hold operator at Central High School pushes him toward wagon after a squabble broke out at the school last week. Several persons were taken into the station after segregationists demonstrated before he walked the school campus to integrate it once

Read Daily by MSU's 25,000 Students and Faculty
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Second of a Series

Poland's Countryside Viewed By MSU Exchange Student

EDITOR'S NOTE: This is the second article written this summer by Kathie Pierson, a MSU student now studying and working in Poland.

By KATHIE PIERSON

"Hi, Howdy! Hey! We're happy to greet you today!" With this cry we paddle into the dock at our first camp.

There were 12 of us: One Bulgarian man (in Poland, for five weeks studying methods of bee

drink was served. We had a great variety—spaghetti in warm milk, macaroni in milk soup, rice in milk soup, and then again spaghetti in milk soup, etc.

Our evening "societies" were often campfires with tourists from other groups. We sang, listened while others sang solos, watched the fire, and talked.

Man and nature have developed a strange contrast in this, the Mazura region. More than 15 lakes connected by streams and small rivers have made a natural water network that, besides serving as excellent shipping and logging waterways in some parts, has become one of the most popular tourist spots in all of Poland.

realized that the entire forest was undermined and disrupted by a maze of trenches, holes, dugouts and tunnels.

On the other side of the camp we found more gunpits, and only the cement and stone remains of a once-German bunker.

In an attempt to restore their forests after the war, the Polish people replanted much of the land and already there are good stands of forest.

Because it was a German territory before the war, many German people still live in this area. The language is sometimes an odd combination of Polish and German.

The homes in these villages, unlike the red brick houses so common in the central part of Poland, are often stucco, always cleanly whitewashed, with red tile or metal roofs.

Now all this wouldn't be so awfully bad if it wasn't for the fact that it is all so obvious, all so sickly sweet, and all so idiotic.

THE WHOLE THING lines up something like this: The evil ones (who are really good deep, deep down) are: Robert Wagner, a young entertainer on the way to the top; and who is (1) a heel, (2) conceited (hiding a deep-seated sense of inferiority), and (3) lustful (sexually abnormal). He likes beautiful women.

Wagner is supported by an alcoholic piano player who would be a great composer if only someone would have faith in him or he in himself or something, and also a young and beautiful un-wed mother.

The forces of rehabilitation are: Debbie Reynolds, who is naive, pretty and is in love with Robert Wagner; Bing Crosby, who is only interested in the welfare of all concerned and who works diligently and unselfishly in their behalf (although they at first do not recognize this or appreciate it, preferring to be left to their own sinful devices).



Film Fare 'Say One for Me' Is Too Sweet

By LAWRENCE BARRIE
IN THE END everyone is good, everyone is happy. Robert Wagner gets Debbie Reynolds and the now-sober piano player takes the bride.



A BULGARIAN man and a Polish woman, members of the camping party, leave the shore after carrying their boat across a dam that wouldn't permit navigation.

breeding, three Americans and eight Polish people. Our trip was planned by one of the men in the Institute of Parasitology.

We began the interesting task of unpacking the kijas and carrying all our gear to our cabins. How, we wondered, had we ever gotten everything and two people besides, into the little room in each of the boats, as bread, jars of jam, links of sausage, five pounds of butter distributed to five kijas, eggs, then blankets, rubber tubes, canteens, extra clothes, and finally our back-packs, came from the sides and underneath the ends where we did not sit.

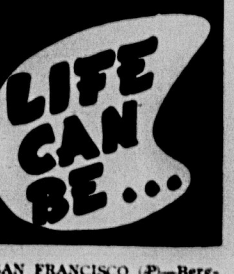
Finning a place for everything in our little huts was another thing. Each tiny home had two cots, two shelves, sometimes a table and nails on which to hang things. I received quite a sensation when I pushed my finger into the mattress to see how soft it was, and discovered that it was straw sewn into a huge bur-lap bag.

On our way back to camp in the evening after a walk in the woods, we gathered wood, and as darkness began to fall, lit a fire. There we sat and sang, some American and Polish songs.

Most of the rest of the days of our trip were similar to this one. The whole camp usually arose at about 7:30 a.m., and we were usually packed and re-energized with breakfast by 10 a.m. We would stop in the middle of a lake and swim; troll fish on the way; and then often fish after dinner.

Often when we would find a nice place on the shore, we stopped and swam, rested, and went for hikes in the forests looking for blueberries and for a special wild strawberry that is very small, but with fragrant aroma and good taste.

Only certain camps were able to have all the food for all meals, so we often had to take our food from these camps for the next days. But at every camp, some kind of soup and



SAN FRANCISCO (AP)—Berg-er Norvik, 42, is a gallant salvage diver.

Norvik retrieved for Miss June Lemon, petite and redhaired waitress on the liner Matoania, a wallet containing \$308.

Michigan State News
Published on clear days Monday through Friday inclusive during fall, winter and spring terms; weekly during summer terms and a special freshman issue between summer and fall terms.

Crossword Puzzle
ACROSS
1. Hobby
2. Bullishly
3. Roman date
4. Fast
5. Wisp
6. Affection
7. Belief
8. Send out
9. Lacking self-confidence
10. Paide
11. Emmet
12. Kilt
13. Clever expedient
14. Color
15. Drilling tool
16. Kind of railroad car
17. Melancholy
18. Urge
19. Wash bowl
20. Poem
21. Crow's note
22. Charm
23. Molted
24. Evergreen
25. Abraham's nephew
26. Proposer
27. Foreboding
28. Tramp
29. Demolish
30. Pernicious
31. Repent
32. Different
33. Penitential period
34. Denary
35. DETERMINING INFLUENCE
36. Reach a destination
37. Judged
38. Vehicle on runners
39. Show clearly
40. Breed of dog
41. Clamor
42. Roused narrow strip
43. Assistance
44. Trifling amount
45. Commonplace
46. Title
47. Dutch commune
48. Ahead
49. Beak
50. Emphasis
51. Group of eight
52. France about
53. Thoroughfare
54. Custodian
55. New
56. Tennis stroke
57. Distilling grain
58. Born
59. Cotton-seeder

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SPONSORS AND ACTIVE backers shake hands after the House finally passed the labor-management bill which had the blessings of President Eisenhower, in Washington last week. The bill which passed 303-125, now goes to the Senate for compromise

Get Help in Cooking

Future Brides Have Advantage

Brides may have a great advantage in the future. They will be able to test their cooking before they give it to their husbands.

The MSU home economics department has been experimenting with machines of different types trying to make this possible.

One of these utensils is an implement that measures the tenderness of biscuit, pie, or other doughs. In this way it will enable new brides to free themselves from the standing joke of hard biscuits on their first try. If they are tested and turn out to be inflexible they will know that they should use the garbage disposal.

Another machine being used is one that tests the durability of muscles in meat. This has proved to be a great help.

A muscle or pie of meat is placed in the machine. The point of breaking is then measured. The faster it breaks, the more tender it is.

determine the amount of edible meat in each.

They have discovered that 40 or 50% of most meat is edible. Chuck roast is a little less at 40 to 44 percent.

Chickens have the least amount of any. Most of the chicken bought is fat and bone.

With all the machines being invented, it will soon be possible to buy meat and chickens without bones and muscles.

The world won't be ahead any because the price of meats will go up to cover the cost and handling of these implements.

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Does Johnny Have Trouble?

Center Tests Child's Reading

There may be many reasons why Johnny can't read. But none of them are as important as finding that Johnny has difficulty and the type of difficulty it is.

Since the diagnosis has been made, then something can be done about it, according to Eugene Guarino, associate director of the MSU reading center.

During the past year, Guarino and his assistants in the College of Education have diagnosed the reading difficulties of 131 children referred to the center by parents and teachers.

Since the tests are given in special rooms which permit observation without the child's knowledge, teachers taking courses and workshops in diagnostic procedures benefit by watching the experts at work.

Parents and teachers of the children involved are encouraged to observe. They feel they profit from it, Guarino said.

After the tests, the diagnosis is explained to the parents. Later, a complete report containing recommendations for helping the child is sent to the parents and the school.

In many instances the child will return to the reading center in the summer for a week or one-hour daily tutoring sessions which are observed by teachers studying remedial reading.

Guarino believes all teachers should be familiar with reading problems and what can be done about them.

Every teacher, he maintains, "should be making a continuous diagnosis of his pupils' reading abilities."

This means more than just noting slow reading and difficulty in recognizing many words by sight.

No paying attention and not reading along well with classmates may be other signs of reading difficulty.

Items to be noted, he continued, might be:

Making reversals such as mistaking "b" for "d" and vice versa. Phonetic errors such as pronouncing the "c" in "celling" as "k."

Lip movements while reading. Parroting wording without adequate understanding of their meaning.

If the teacher recognizes and corrects such mistakes on the spot, Guarino said, she can be of great help to the child.

She can also encourage him to read and select practice reading which will be easy for him. This will stimulate the child to read more. No pupil gets enough practice during the school period. But they are not going to read outside of class unless they are successful at it.

Michigan to Start On Apricot Spree

Michigan may launch off on an apricot raising spree next year.

Trial plantings of varieties developed at the South Haven Experiment Station here produced their first crop of fruit this year. Whether the varieties will be released for next year depends on processing and other market tests, states Stanley Johnston, developer of the varieties.

Several Michigan fruit processors took batches of the fruits as they ripened this year and are running tests. They are interested in it as a possible new crop for canning.

Expert Grooming - No Long Waits - Haircuts By Appointment

VAN'S MSU BARBER SHOP
209 MAC ED 2-1819

Weatherman To Point Out Late Blights

The weatherman is looking further ahead these days. He improves foresight by helping gardeners stay healthy.

Weather bureau scientists now predict three or four weeks ahead long enough to help ward-off late blight in potatoes and tomatoes, says Miriam Strong, plant pathologist at MSU.

The United States Department of Agriculture and several state experiment stations now try to point out late-blight outbreaks about 15-20 days before they develop.

"The project is experimental," notes Mrs. Strong. "Wet, cool summer weather encourages late blight. Prediction is hard, as two or three damp days in a dry month can start the disease. Outbreaks in neighboring states to the south warn Michigan scientists."

One-to-four week forecasts may alert growers who haven't been spraying regularly, say the pathologists.

She suggests a season-long spray program that controls late blight, early blight, septoria blight, and anthracnose. Many common diseases may only train tomato growers who follow specified spray programs.

Mrs. Strong recommends spraying with hormones during the last two weeks of the picking season.

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SOMETHING BOTHERING YOU? . . .

Don't let mid-term blues hit you, take a break and relax. The best place of course is Lake Lansing Park. For real entertainment, next Tuesday is WJIM day—all rides except the turnpike for 10c and the merry-go-round is free. Free gate admission too. At 8:00 is the special WJIM talent show.

And then on Wednesday is Sears day. Pick up your tickets from your Sears store for free gate admission, one-half off on rides, and one free ride.

So take a break—have fun.
See you at Lake Lansing.

Lake Lansing Park
Lake Lansing Park—Open nightly—
Except Mondays - All Day Sunday

Attend Church This Sunday
EAST LANSING CHURCHES

<p>ST. JOHN CHURCH & CATHOLIC STUDENT CENTER Fr. R. Kavanaugh Fr. F. Zippa 117 M.A.C. Avenue Saturday, August 15 Holy Day Masses: 7:00 a.m., 8:00 a.m., 12:10 p.m., 5:15 p.m. Solemn Masses: 7:30 - 8:45 - 10:00 - 11:30 (Baby sitting at 8:45 Masses) Daily Masses 6:45 & 8:00 A.M. Confessions Daily 8:00 A.M. & 5:30 P.M. (after Rosary) Saturday 6:50 & 7:30-9:00 P.M. Phone ED 7-8778</p>	<p>PEOPLES CHURCH EAST LANSING Interdenominational 700 West Grand River at Michigan SUNDAY SERVICE 10:00 A.M. "JESUS, PIONEER OF LIFE" Dr. P. Marion Simms Church School 10:00 A.M. Crib room through high school age</p>	<p>ALL SAINTS EPISCOPAL CHURCH 800 Abbott Road - ED 7-1313 Rev. John F. Porter - Chaplain Rev. Gordon M. Jones Rector SUNDAY SERVICES 8:00 A.M. Holy Communion 10:00 a.m. Holy Communion of Morning Prayer and Service DURING THE WEEK Thursday, 5:15 p.m. Holy Communion Daily, 9:00 a.m. Morning Prayer</p>	<p>FIRST CHURCH OF CHRIST SCIENTIST Branch of The Mother Church The First Church of Christ Scientist, Boston, Mass. 109 E. Grand River Church Services 11 a.m. Sunday School 11 a.m. Subject: "MIND" Reading Room 114 W. Grand River Mon. Wed. Fri. 9 a.m.-5 p.m. Tues. Thurs. 9 a.m.-5 p.m. and 7 p.m.-9 p.m. Saturday 9 a.m. - 1 p.m. All are welcome to attend Church services and visit and use the Reading Room.</p>
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<p>METHODIST CHURCH OF EAST LANSING and WESLEY FOUNDATION Wilson M. Lennart, George J. Jordan Ministers Sunday Worship 9:30 a.m., Red Cedar School One Block West of S. Harrison Rd. On Bever Dr. 11:00 a.m., State Theatre Nursery for both services Church School 10:30 a.m. All Ages Red Cedar School</p>	<p>EDGEWOOD PEOPLES CHURCH Interdenominational 449 S. Magador Road (5 blocks north of Grand River) Rev. Truman A. Morrison Minister Rev. Robinson G. Lapp Minister Sermon "THEOLOGY AND THEORY" 9:30 A.M. Dr. Claud A. Wehn Church School at 9:30 A.M. Crib room through Junior High</p>	<p>MARTIN LUTHER CHAPEL 446 Abbott Road Chapel Ed 7-0718 (Missouri Synod) No services at Chapel until Fall Term Services at Christ Church Pennsylvania South of Michigan 8:30 a.m. Interim Pastor Rev. Donald Orter 806 East McConnell St. John, Michigan Parsonage No. St. Johns 206-J</p>	<p>EAST LANSING TRINITY CHURCH 120 Spartan Avenue Rev. E. EUGENE WILLIAMS Pastor Worship Services 11 A.M. "GOD'S GUIDANCE" 1:10 P.M. "ABANDONED LOVER" 7:00 P.M. OTHER SERVICES 9:45 A.M.—Sunday School w. classes for University students. All University students invited to attend 7:00 p.m., Wednesday Even. Prayer and Bible study.</p>
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Go to Some Church Every Sunday

<p>SOUTH BAPTIST CHURCH South Washington At Stuyves River Drive Howard E. Sogden D.D. Desmond J. Bell 10:00 A.M. Bible School Hour College Class taught by Dr. David Warriner, Natural Science Dept., MSU. 11:00 and 7:00 Services Guest Speaker Dr. Percy Harris President of London Bible Institute and Theological Seminary Free bus service leaving Shaw and Farm Lane 9:30 A.M. and 8:30 P.M. Routed through campus. For further information call ED 7-9482</p>	<p>LANSING CENTRAL FREE METHODIST CHURCH Washington at Jefferson Morning Worship — 11 a.m. Youth Service — 7:00 p.m. Evening Worship — 7:30 p.m. For Transportation Call ED 7-9822 "The Church of the Light and Life Hour"</p>	<p>FIRST CHRISTIAN REFORMED CHURCH 240 Marshall St. Rev. John M. Hofman, Pastor Morning Service 10 A Evening Service 7 P Those who desire transportation to church call Mr. Holt (IV 4-8) or Mr. Van Vleet (ED 2-3244)</p>
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<p>ASCENSION LUTHERAN CHURCH (Missouri Synod) 7700 Bisset Road (1/2 Mile East of Magador Road) East Lansing Sunday School 9:15 A.M. SERVICES 8:00 a.m. at Great Drive in 10:30 a.m. at Church Rev. George W. E. Nickelsburg 810 2-212 or 810 4-1901</p>	<p>CENTRAL METHODIST CHURCH Ottawa at Capital 9:00 Prayer Service in Chapel Worship Service 10:00 A.M. Sermon by Paul Morrison Central is a Friendly Church</p>	<p>UNIVERSITY LUTHERAN CHURCH AND STUDENT CENTER (National Lutheran Council) Division at Ann Street 1200 Blocks North of Berkey B. Ed 7-3371 or ED 2-2715 Sunday Schedule Services 9 and 10:45 Nurses Available Sunday School — 9:00 a.m.</p>
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Kelley Gets Votes; Sammy Ignored

Ellison Kelly of Michigan State was among the vote-getters in the ballot for Most Valuable Player in Friday's All-Star game at Chicago. Michigan's Bob Ptacek received the MVP award. Sammy Williams, State's 1938 All-American end, played well during the Stars 29-0 loss to the Baltimore Colts, but was ignored in the balloting.

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Now... One of the World's best-loved stories becomes Walt Disney's Newest, Most Wonderful Motion Picture!

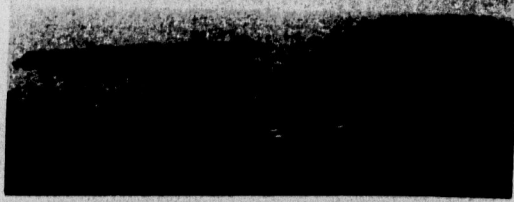
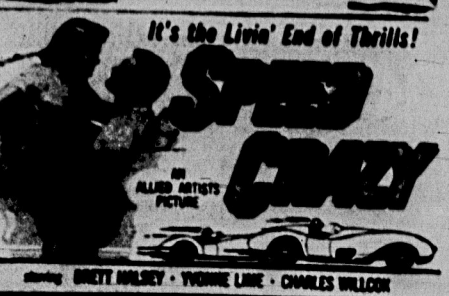
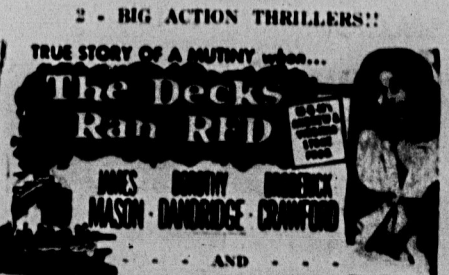


2nd GREAT ATTRACTION
 SHOWN TODAY AT 8:35 ONLY

"ALLIED ARTISTS' 'SNOWFIRE' HAS ALL THE THRILL OF A WALT DISNEY HIT!"



STARTS **SUNDAY!** 7:00 P.M.
 2 • BIG ACTION THRILLERS!!



Copper Harbor from Brockway Mountain Drive.



CENTRAL MINE is one of many copper mining ghost towns in the Keweenaw Peninsula. Michigan State's 1958 baseball team led the Big 10 in team batting with a .310 percentage.

TAKE NOTE

Summer months are busy months and the days go by without notice. But your car does notice them, and it may be time for a checkup. Maybe you should come in now, just to be sure.

You'll find we give your car the expert care it deserves. Drive in for everything from GOOD GULF gas to summer checkups.

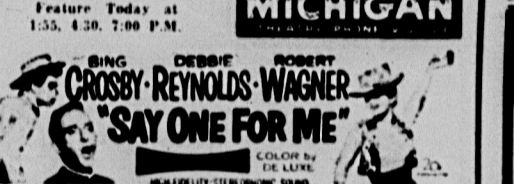
- VALVE GRINDING
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TODAY and FRI! Cool! Cool! MICHIGAN



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 To The Big **SUPER BARGAIN DAY**
 SEE... ALL-DAY PREVIEW SEE... TWO FEATURES!



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 VINCENT PRICE
 PETER LORRE
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 "Circus" Fri. at 2:35, 6:50 P.M.

Shown Friday at 1:00, 4:30, 8:40 p.m.
FRI. CO-HIT
'SAY ONE FOR ME'
 CINEMASCOPE COLOR BY DE LUXE

Try the U. P., Beaver Island

Want an Offbeat Michigan Vacation?

By LARRY GUSTIN
 State News Sports Editor

For the adventurous student traveler, Michigan has a wealth of offbeat vacation possibilities. And most summer school students, whether waiting for fall registration or taking a week off before starting work, find September is the month to travel.

The weather is dry and still warm, the bugs are not so bad, and most of the tourists have left the state's many playgrounds.

The Upper Peninsula is the best bet for those of you who are looking for something different in the way of vacations.

Remnants of the glorious heyday of copper mining are scattered throughout the Keweenaw Peninsula; the wilderness of the Porcupine and Huron Mountains is among the most rugged and least explored in the Midwest; Anatomy of a Murder fans might enjoy looking over the Marquette and Big Bay scenes described in the book and pictured in the movie.

Those of you interested in history will find the Keweenaw Copper Country fascinating. It was here that the first mining boom (1841) in the country took place. Here was a land teeming with as much adventure as any western boom town could boast.

The Copper Country has seen poverty in recent years with the



STUDENT TRAVELER Dave Morris, with dog Blacky, prepares meal at Higgins Lake, one of the state's many fine campgrounds.

closing of most Calumet and Hecla mining operations. Decaying mine shafts, crumbling stone buildings and mountains of copper "slag," however, remain as a memorial to the prosperous days when pure Michigan copper was the finest in the world and Michigan led the nation in copper production.

The ghost towns — such as Central Mine — are genuine. There has been no effort at restoration and there is nobody to collect money for the privilege of poking around. Some-

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the name that made pizza famous in Lansing
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CORAL GABLES

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 DANCING FRIDAY AFTERNOON

ENTERTAINMENT AND DINNERS

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ONE MILE EAST OF MSU

part of it for copper exploration. The action stirred conservation groups into "Save the Porkies" campaigns, and poverty-stricken U.P. natives were equally determined that the copper interests should work a section of the Porkies to provide new employment.

The controversy aroused new interest in the Porkies, where the last appreciable stand of Michigan's virgin white pine remains. The Michigan Conservation Commission finally decided not to lease the site.

The mountainous park provides a challenge to those who wish to camp, fish and hunt in a largely unmarred wilderness.

The iron country, though perhaps less exciting to the casual observer, is also interesting. The little ghost town of Fayette on Big Bay de Noc, has recently been purchased by the state for conversion into a mining museum.

There are, of course, many more other points of interest in the U.P. The Huron Mountains, perhaps more rugged than the Porkies, those interesting iron towns of Negaunee and Leaning, the Soo Canal, Tahquamenon Falls, and so on.

Perhaps the strangest historical site in the state is on Beaver Island, off Charlevoix. Here "King" James Jesse Strang founded a Mormon kingdom in the 1840's. Strang and his followers believed he was the divinely-appointed successor to the assassinated Joseph Smith, and the little band went to the Lake Michigan island. The majority of the Mormons followed Brigham Young to Utah where they founded Salt Lake City.

On Beaver Island, "King" James was absolute leader, although he did humble himself to the extent of being elected to the state legislature. But the band ran into trouble when it practiced polygamy and Strang was assassinated, and his followers dispersed by Irish invaders from Charlevoix. The Mormon village was burned, but the foundations of Strang's printing office may still be seen. And the King's highway on the island is a name which recalls the short-lived kingdom.

A ferry runs three times a week between the island and Charlevoix. There you have a sampling of several vacation ideas. There is much more, perhaps closer to your home.

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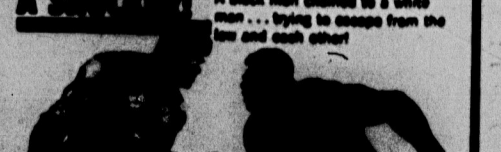
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WANDA SCOTT
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 2nd at 8:30
 52 Best Picture Awards & World-Wide Honors
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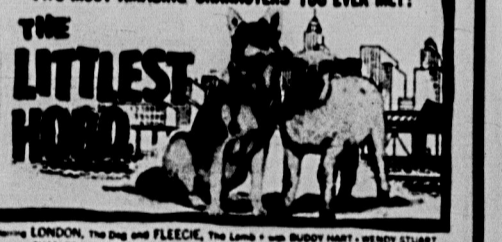
SUN. MON. (2) BIG HITS



BORN RECKLESS
 TUES. WED. DOLLAR PER CARLOAD
 (2) HITS

CREST 2 THURS., FRI., SAT. Giant Dusk-to-Dawn 5-Unit Moviethon

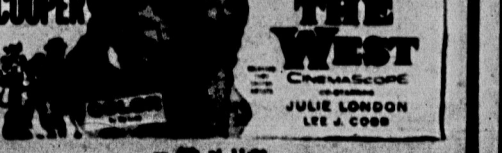
(6) Disney Cartoons Shown First at Dusk



THURS., FRI., SAT. 2nd at 8:30



2nd at 10:10



2nd at 11:20



SUN. MON. TUE. WED. 4 BIG DAYS



OSU Athletes Shine in Class

Michigan State varsity tennis player Doug Smith topped the list of 35 Spartan athletes who compiled grade averages better in the class room during spring term.

A junior from East Lansing, Smith, turned in a 4.0 or better in a number of classes. A average in mechanical engineering for an outstanding performance. Four of his classmates made the honor list in tennis and hockey. Smith also boasted of five men each in the select

turning in high averages. Ken Lawless, fencer from East Lansing, with a 3.7; Billy Reynolds, track and field star from Galt, Ont., with a 3.6; hockey player Ed Pollesel, with a 3.5; and Jon Marx, football star from Phoenix, Ariz., with a 3.4.

Other athletes here, by sport, are the following: Football — Wade Cartwright, Detroit, Basic College, 3.4; Basketball — Larry Fancher, Galt, Ind., education, 3.4; Ed Green, Galt, Ind., education, 3.4; Ed Green, Galt, Ind., education, 3.4; Ed Green, Galt, Ind., education, 3.4.

Country Track — Charles Mann, Traverse City, political science, 3.1; Allan Newmann, Galt, Ind., engineering, 3.0; Stephen Ernest, Galt, Ind., engineering, 3.0; Stephen Ernest, Galt, Ind., engineering, 3.0.

Baseball — Blanche Martin, Galt, Ind., education, 3.3; Ed McCucas, Galt, Ind., education, 3.3; Ed McCucas, Galt, Ind., education, 3.3.

Track — Dick Becker, Galt, Ind., education, 3.0; Dick Becker, Galt, Ind., education, 3.0; Dick Becker, Galt, Ind., education, 3.0.

Boxing — Archie Moore, Galt, Ind., education, 3.0; Archie Moore, Galt, Ind., education, 3.0; Archie Moore, Galt, Ind., education, 3.0.

Baseball — Blanche Martin, Galt, Ind., education, 3.3; Blanche Martin, Galt, Ind., education, 3.3; Blanche Martin, Galt, Ind., education, 3.3.

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State News SPORTS

August 20, 1959 Page Five

For Grid Season Early and Assistants Prepare Equipment

By ARTHUR LOESEL
Ken Early and his three assistants are working hard to get the football equipment into good shape for the coming season. Early is the football team's equipment manager. During the summer they have to repair worn-out equipment and take inventory.

The equipment is divided into two groups as are the football teams. The varsity uses the newer equipment and the freshman team uses the older equipment. This year the freshman turnout is expected to be between 100 and 200 hopefuls.

The players have two pairs of shoes, jerseys, and pants. One of these sets is used for practice sessions and the other is used for games only. This keeps the equipment manager busy because both sets have to be in good shape.

A good pair of football shoes cost about \$20, a jersey about \$10, and a pair of pants about \$17. All the equipment used by one player runs from \$100 to \$200 depending on how good it is.

New equipment which will be used this year by the entire team are double-bar face guards. This makes extra work for the equipment manager because all the older face guards have to be removed and the new ones put in their place.

Long-sleeved jerseys are worn by the linemen and short-sleeved jerseys are worn by the backs and ends. This gives the spectators an advantage in watching the game.

Football is a twelve month job. Practice starts August 23.



SAN FRANCISCO GIANTS second baseman Daryl Spencer has ball in hand as he leaps over Chicago Cubs runner Art Schult in fourth inning at Wrigley Field in Chicago Sunday. Schult was forced out but aggressive block prevented double play. Action came when Giants shortstop Ed Bressoud scooped up Earl Averill's grounder and tossed to Spencer. Cubs won, 5-4.

Duffy's No Duffer: One Stroke Behind

Forest Avel golf course is sponsoring two summer match play tournaments—one for students and one for faculty.

Duffy Duggan, the Spartans' athletic director, is tied for second with Fred Wagner at 80 in the faculty tournament. Jack Brown and John Havergreen lead with 79.

John Margardt leads the students with 75. Following him are Bob Hill and Ed Johnson with 76 and Russ Kropf with 77.

Long-sleeved jerseys are worn by the linemen and short-sleeved jerseys are worn by the backs and ends. This gives the spectators an advantage in watching the game.

Football is a twelve month job. Practice starts August 23.

AIR CONDITIONED ESQUIRE Theatre

Mat. 50c Nights 65c Kiddies 15c

NOW SHOWING

ISLAND IN THE SUN

AND

FIRST MAN INTO SPACE

SUN. - MON. - TUE.

The Three Faces of Eve

2nd BIG FEATURE

JOHN STEINBECK'S THE WAYWARD BUS

THE THREE FACES OF EVE

2nd BIG FEATURE

JOHN STEINBECK'S THE WAYWARD BUS

THE MUMMY

HIT NO. (3) FIRST RUN

CURSE OF THE UNDEAD

SUN THRU WED (2) BIG HITS

IT'S A BLAST!

Walt Disney's THE SANDLOT

GUNMEN FROM LAREDO

HIT NO. (2) "ANATOMY OF A MURDER"

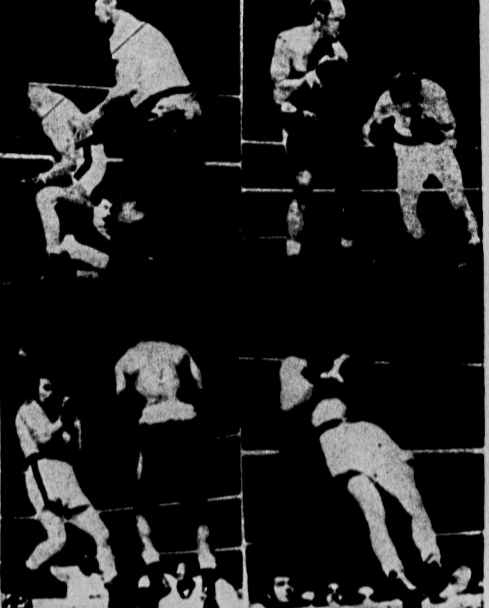
THE FIVE PENNIES

TECHNICOLOR

BEL GEDES - ARMSTRONG - GUARDINO - CROSBY - TROUP

"DON'T GIVE UP THE SHIP" - SHOWN AT - 2:22 - 5:49 - 9:11

"THE FIVE PENNIES" - SHOWN AT - 12:30 - 2:52 - 7:14 - 10:36



ARCHIE MOORE, shown here battering Yvon Durelle around the ring in their light heavyweight title fight a week ago Wednesday, easily kayoed his challenger in the third. Then he offered Ingemar Johansson one million dollars for a heavyweight title fight. So far no answer from Johansson. In other boxing news, Davey Moore was scheduled to defend his featherweight title against ex-champ Kid Bassey Wednesday.

Campus Classifieds... Low Cost

BUDGET BOOSTERS

OUR LOW FOOD PRICES!

at

GADE'S

IN OUR NEWLY REMODELED STORE

Meats, Groceries, Full line of Beverages

Two Blocks from Married Housing

Open Evenings

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NOW SHOWING!

SPACE MONSTERS INVADE THE EARTH! TO ABDUCT ITS WOMEN! LEVEL ITS CITIES!

MGM presents "THE MYSTERIANS" in BIG SCREEN COLOR!

2nd Big Attraction!

NOWHERE TO GO

STARTING WEDNESDAY

THE FIVE PENNIES

TECHNICOLOR

BEL GEDES - ARMSTRONG - GUARDINO - CROSBY - TROUP

"DON'T GIVE UP THE SHIP" - SHOWN AT - 2:22 - 5:49 - 9:11

"THE FIVE PENNIES" - SHOWN AT - 12:30 - 2:52 - 7:14 - 10:36

SPECIAL This Week

SAVE YOURSELF \$1.25 ON A LUBRICATION AND OIL CHANGE

REGULAR PRICE	SPECIAL PRICE
Lube \$1.50	Lube \$1.00
5 qt. 10W-30 3.00	5 qt. 10W-30 2.25
\$4.50	\$3.25

RED'S SHELL SERVICE

710 MICHIGAN NEAR KELLOGG CENTER

THE ENTERTAINMENT KING OF THEM ALL... HAVING HIMSELF A WONDERFUL TIME... AND CAPTURING THE HEARTBEAT OF ALL AMERICA!

DANNY KAYE

Five Times Funnier Than Ever... as "Red Nichols" in

THE FIVE PENNIES

TECHNICOLOR

BEL GEDES - ARMSTRONG - GUARDINO - CROSBY - TROUP

"DON'T GIVE UP THE SHIP" - SHOWN AT - 2:22 - 5:49 - 9:11

"THE FIVE PENNIES" - SHOWN AT - 12:30 - 2:52 - 7:14 - 10:36

Gridders Face Heavy Sked

Michigan State has picked on some of the best against which to attempt a comeback this coming football season. Six of the Spartans' 1959 opponents had strong winning records last fall. And five of the opposition hold winning life-time marks over Michigan State.

Iowa, Notre Dame, Indiana, Ohio State, Purdue and Northwestern all had winning records a year ago, and from pre-season forecasts Iowa, OSU and Purdue are listed as the top contenders for the Big Ten crown.

Holding life-time margins over the Spartans are Michigan, Notre Dame, Purdue, Northwestern and Miami, with the latter two never having lost to Michigan State.

VARSITY DRIVE IN FOR CURB SERVICE

Bar-B-Q Beef
Foot Long Dogs

PIZZA

SEE US FOR ROOMS TO RENT

LIEBERMANN'S

Locker Trunks

make college packing easy

STEEL COVERED \$8.95

FIBER COVERED \$12.00 (plus tax)

Best and safest way to take all their clothing and gear on the campus trek. Size 30"x12"x16" — big enough to carry a big load and small enough to fit in a car. Fitted with double draw bolts and center lock.

Liebermann's

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THE MUMMY

HIT NO. (3) FIRST RUN

CURSE OF THE UNDEAD

SUN THRU WED (2) BIG HITS

IT'S A BLAST!

Walt Disney's THE SANDLOT

Fred MacMURRAY - Jean HAGEN

HIT NO. (2) "GUNMEN FROM LAREDO" IN TECHNICOLOR

STARTS THURS. "ANATOMY OF A MURDER"

WOM BARBER SHOP

COURSE BASEMENT, FRANDOR

1.50 REGULAR

2.00 FLATTOP

OPEN SATURDAY

Get Quick Service

Louis Dry Cleaning and Shirt Laundry

services from modest services \$1.00



CAROL AND HER SISTER, Nancy, spend many hours at home wading through records that may make good ice skating music.



STUDIES took much time during the first five weeks, and Carol spent many hours at the Library.



She's just as attractive off the ice too

Magic on the Ice — That's Carol Heiss



The girl who performs magic on the ice—that's Carol Heiss, world champion figure skater who is training this summer at the MSU ice arena.

Carol, who claimed her first world championship title at the competition in Garmish, Germany, in 1956, is training daily for the 1960 Olympics. She will be shooting for a gold medal at the Olympics, the highest achievement, at Rome next year.

She has also won world championships at Colorado Springs in 1957 and 1959, and at Paris in 1958.

Carol makes the trip to the MSU campus an annual summer excursion. This year, during her many hours of skating practice, she took a summer school course during the first five-week session.

The pretty blond attends New

York University during the winter months, where she is completing her sophomore year in quest of a liberal arts degree. By taking extra summer school credits, she hopes to be graduated in 1961.

"I'm normal," is the message that Carol wants to get across to her public. Being a superstar, this is no easy task. But being able to remain normal has been Carol's greatest asset on her road to fame.

Carol's mother, a German immigrant like her husband, always wanted her children to become great in some field. Skating was the selected field, and Carol started when she was five years old.

In pursuit of skating fame, Carol gave up a normal childhood for a stiff training program. After her mother died, Carol's guidance was taken over

by Pierre Brunet, one of the foremost skating coaches in the world.

This summer, Carol spends approximately six to seven hours on the ice. And in her spare time, she gives personal lessons.

Two other members of the Heiss family are also developing into Championship skaters. They are Carol's sister and brother, Nancy and Bruce.

Nancy, an excellent technical skater, will enroll as a freshman at MSU this fall, while Bruce, a junior in high school, is one of the country's best skaters.

Off the ice, Carol is cheerful, agreeable and unaffected. She smiles a lot. Her face is bright. And on the ice, she's a friend of all the other skaters on the rink—as well as the best skater in the world.

PRACTICE sessions have paid off for Carol, who has the gracefulness and poise needed for a championship skater. Here she performs the "Mazurka."

ALL WORK and no play is a dull life, so Carol takes a few minutes out of her busy schedule to make friends with the ducks on the Red Cedar River.

LOTS of fancy maneuvers on the ice are included in Carol's routine, and the "Back Jump" is one of her finest.

WORDS of wisdom from Carol and her coach, Pierre Brunet, are relayed to Bruce. Bruce will take a hit-test for skating at the ice arena on Saturday.

HOURS of practice are needed to perfect such maneuvers as the "Fast Step."

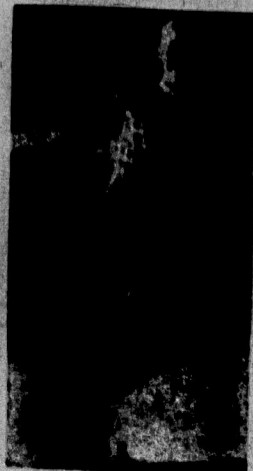
State News Photos by Norm Hines



NANCY and her roommates unpack at the dormitory during the Counseling Clinic. Nancy will be a freshman at MSU in September.



ONE of the most beautiful sights on the ice is the "Stag Jump," which Carol does with perfection. It is one of the hardest maneuvers for an ice skater to master.



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