MICHIGAN STATE UNIVERSITY

Vol. 54 No. 17



STATE NEWS

East Lansing, Michigan

August 16, 1962

Price 10¢

100 Come To Fifth Gym Clinic

Gymnastic performers and coaches from Michigan, 16 other states and Canada will converge on the Michigan State campus Sunday through Friday for the 5th Annual National Summer Gymnastics Clinic.

More than 100 young people already are registered for the clinic which will see the nation's top coaches and active gymnastic athletes presenting up-to-date teaching and coaching techniques and methods.

One of the clinic's major objectives will be to stress gymnastics instruction on elementary and secondary school level, in keeping with President Kennedy's emphasis on physical fitness im-

Directing the clinic will be George Szypula, Michigan State's gymnastic coach, who will handle a teaching assignment himself. Highlighting the clinic week

will be two special events offered to the general public.

The first is an Olympic development meet, set for Monday at 1:30 p.m. at Jenison Gymnasium, open to the public without charge. It is designed for training officials, with young performers competing and later getting critiques on their performances.



The second is a "Night of rge Romney chats with Mr. and Mrs. Ramon Roussin during Stars" show, scheduled for his walking tour of University Village Monday.

-- State News Photo.

Spartans Top Nation In Playboy Picks

By JIM WALLINGTON State News Managing Editor

Playboy magazine, in its the probable No. 1 football team or recover from injuries."

in the nation this fall.

All-Americas. The magazine's football A&M. writer, Anson Mount, wrote that Daugherty has the finest first string in the country, but if any key man, such as Saimes or Behrman were injured, the squad would be crippled "since the quality. . . drops off sharply after the first 11 players."

He predicted Michigan State 1. would win the national title with Playboy's prediction.

salt. None of the sports maga- Lonnie Sanders and fullback seniors.

zines and organizations who are used to making predictions are picking us up there.

"It's nice some of our individ-September issue, has tabbed the uals get some honors, but we Michigan State football team as don't have enough depth to escape

Following the Spartans in the The publication also named magazine's top 20 are, in order, MSU Head Coach Duffy Daugher - Mississippi, Duke, Iowa, Texas, ty as the coach of the year and Ohio State, Navy, Alabama, named two Spartan players -- Washington, LSU, Purdue, TCU, Captain George Saimes and Oregon, Northwestern, Marytter Dave Behrman--as likely land, Penn State, Florida, Tennessee, Missouri and Texas

> Two Michigan State inter-sec-(Continued on page 9)



DUFFY DAUGHERTY

vites 70

Michigan State will pin its "If Duff's chargers can stay of 70 men invited by Head Coach whom the club will be built. healthy, they'll wreak desolation Duffy Daugherty to return for

an 8-1 record, but did not guess winners, including eight seniors Capt. Saimes made the All-Big and movie reviews published in which team would beat the Spar- who previously have won two Ten. tans. Daugherty chuckled at letters each. These eight--end ayous a humor magazine isn't bitt, Ed Budde and Jim Kanicki, over-balanced by the presence rinths," a collection of writings it," he said. "You have to take guard George Azar, center- of 28 sophomores. On the squad of Jorge Luis Borges, and ass their prediction with a grain of tackle Dave Behrman, wingback also are 24 juniors and 18 ciate editor of "Tales for

1962 gridiron hopes on a squad "blue chip" veterans around year.

across the Midwest," Mount said. early fall drills starting Sept. biggest regular in Spartan grid-Among them are 24 letter- honors last year, and he and of numerous articles and book

This small but sound hard magazines. Ernie Clark, tackles Jim Bob- core of experience is more than He is also co-editor of "Laby

Romney Promises Active Campaign

By SUSAN JACOBY of the State News Staff

George Romney, Republican gubernatorial candidate, promised an active campaign to revive Michigan's business picture during his campaign tour through Michigan State and the Lansing area Monday.

Romney, who faces Democratic Governor John Swainson in the Nov. 6 election, stopped at Williamston, Mason, Lansing and East Lansing in his whirlwindtour which included a visit to University Village.

The 55-year-old candidate, who is former head of American Motors, said the key to reviving the state's business picture 'is to free the state from domination by special interest groups."

Romney said he would use his experience gained as president of American Motors in leading the state out of economic chaos.

Romney sighted several similarities between his problems as president of American Motors and those to be faced by Michigan's governor.

Weighted by a huge debt, American Motors was generally considered a dying corporation before Romney became president. The company's return to a frontal position in American auto manufacturing is largely credited to Romney.

"Along with several other executives, I was able to straighten out American Motors' financial tangle and improve the company's public image. A big part of the job consisted of obtaining cooperation from people of diverse backgrounds and ideas."

Romney said he plans to attract new industry through a program of complete fiscal reform. He does not favor a state income tax independent of complete atures averaging seven degrees financial reform.

"I would never advise a state tax just to meet a deficit," he said. "Such a policy would pletely ignore the underlying causes of deficits. Any changes in revenue must be accompanied by changes in spending."

He feels that untangling Michizan's "financial mess" is basic to attracting new industry.

Yates Accepts Fulbright Grant

Donald A. Yates, assistant professor of foreign languages, has received a Fulbright grant from the U.S. Department of State to do research in Argentina for a

Yates will be investigating Ar-Behrman, at 6-4 and 253 the gentine imaginative literature. A member of the MSU staff iron history, won All-American since 1957, Yates is the author several popular and scholarly

Rainy Night."

"It's obvious that businesses don't want to locate where they must pay extremely high taxes," he emphasized. "Furthermore, our constant legislative squabbling and nationally aired difficulties have tarnished Michigan's image to the extent of discouraging new industry.'

"Michigan's leaders have been hostile to business for the last 14 years. Both business and labor must feel confident that the government treats all groups

"Speaking from a lifetime of practical experience, I know the Michigan legislature can be drawn together. The legislature needs constructive leadership, one which doesn't create antagonism. People said Con-Con would never work, yet we produced one of the finest state constitutions in the country.

Romney, who served as Con-Con vice-president and organized Citizens for Michigan, the group which sparked a demand for constitutional reform, stands squarely behind the new state constitution.

Swainson opposes ratification of the document.

The GOP candidate spoke of university-level research as another key to economic growth for Michigan.

"There is too little correlation between research and economic activity," he said. "We're producing electronics and engin-

(Continued on page 7)

Weather Cool, **Empty Pool**

Lansing-area swimming pools and sun decks are noticeably empty this week due to temperbelow normal.

Harold Julian of the Capital City Weather Bureau says the average August temperature is 72 degrees. Temperatures during the early part of this week averaged around 65 degrees.

"Cold air masses usually sweep through the northeastern United States from Canada,' Julian explained. "But this summer prevailing winds from the northwest are bringing cold air masses into the Dakotas. These sweep over the entire eastern half of the United States -- including Michigan."

Julian said temperatures would rise toward a more normal level today. However, they have averaged three degrees below normal throughout the summer.

"People should remember that unusual weather is the rule. It is an unusual event when weather is 'normal,' " Julian commented.



EDITORIAL How Is It Spelled--Arigiculture?

The Union is a noted campus stopping place for visitors to campus.

Prominently displayed in the first floor hall are the names of those students who have achieved a 3.5 average or higher during spring

It is an honor for the students who have their names on the board. Many persons passing through the union stop to look over the list which is arranged alphabetically by colleges.

The honor and the MSU academic image are somewhat tarnished this summer, however.

The person who put up the college titles s pelled the first one on the list -ARIGRI-CULTURE.

Someone ought to change it.

Crossword Puzzle

ACROSS

- 1. After
- 5. Make lace & Drink little
- 11. Butter
- 12 Mostern with cial
- 13. Medieval 14. Scraped
- limen 15. Recoup
- defeated 19. Wrath 21. Pile fabric
- with uncut loops 24. Believed in 28. Affarmative

STATE

UNIVERSITY

- 29. Amoint
- 20 Uneven 23 Course traveled 36. Woman's
- 27 Member of a Percian tribe 28. Went assore 42. Goa powder
- 45. Att serte loose 46. Refuse whol
- 47. E. Indian weight 48. Tennysonian character
- 49. Sheep 50. Tip 51. Resort city DOWN

wide

1. Take a

THESDAY'S SOLUTION 2 Pospourri 3, 2ap. coms 4. Indian DOSES 5 E Indies

MINIST TOWN 441 16. Seaweed 18. Brush attention and an hand 22 Cereal 6. Span of 23. Attirma-7. Ulapoken

MANT UVEA

24 Justing 25. Biver, Sp. 28 Hom 27 Staped person. 131 Extinct M.

8. Diverse

9. Dessert

10. Contented

- Zeland 32 Football Rockey 34. Auroch 30 Irregu 14119 THUS A FRANCE
- 电位混合 29 Com pleted Mi Ireland 41 Pedestal
- 43. Disturb 44 Pruit of Frent SAL-+ WAL

distinct says,

The safe level of fluorine in

The intake of fluoride results his protonuted increase in the soride content of enames, denting

For those people was many he unding apprehensive about the hazarda of adding flouride to drinking, the ADA says that it should be pointed out that fluor. statum does our add anything new to the water. People in many parts of this country, and

dated water.

Romney Visits With Spartans

in MSU's University Village Monday afternoon

The candidate's surprise appearance at apartments in the married bousing development produced a variety of reactions. Mrs. Janet Brooks, 1211 University Village,

"I was quite thrilled to think he'd actually take the time to come around himself. I visited Con-Con and watched Mr. Romney in action in connection with my political science courses. I never thought he'd find time to

actually stop in people's homes." "A visit like Romney's probably means a lot to voters," Mr. George Zimmer of 1201 University Village said. "It shows he has time; however, I don't think the questionnaires he distributed will get much of a reaction. Most of them will probably be thrown out."

Al Bivens, who graduated from MSC in June, was painting doors when Romney appeared.

candidate for governor pope up while you're Seriously, I think it's a good thing work tiz.

for a candidate to go to the people like that." MSU senior Gary Burns, another painter,

"I don't know of any other candidate who took the time to come around personally. No one even came here during the primary campaign, and it must be harder to do it on a state-wide basis."

Mrs. Carmen Labarca of 1201 University Village is a native of Chile. She has lived in the United States about one year. She

"I don't understand too much English, but I know Mr. Romney is a candidate for gover-I think this is very good, that a candidate should come and talk to the people. I have not seen this before. In my country, such a thing would never happen."

fluorine in different compounds,

cost and relative physiologic et-

from which to draw;

There are four chief sources

Sodium fluoride was the earli-

was commercially available in

ent source used by cities because

large quantities, was convenient

to use and had a solubility which

was relatively high and constant

over a wide range of temper-

A salt, calcium fluoride, is the

however, have found it conven-

existed of feeding fluoride di-

direct feed since acid is already

ever, and the danger inherent

in any but the most well-super-

Balancing cost against conven-

flouride might be the most prom-

Racine, Wis., for example, has

it about one-fifth as expensive

fluoride obtained from

rectly to the water

in liquid form.

vised plants.

By BOB ROSS

State Hews Science Editor

In 1908, Frederick McKay, a Denver dentist, became interested in brownish blerhishes. or mottling, on teeth. He undertook a check of 6,000 persons in 10 states and two foreign countries.

His first report concluded that there was "something" in the drinking water of certain towns that caused differences in tooth enamel. But he also noted that persons with mottled teeth had tower cavities.

By 1931 he had finally traced mottling and lack of decay to the natural amounts of fluorine in the water supply.

Over the last three decades it has been established beyond question that when the intake of fluoride is one milligram's day. trace amounts of fluoride are taken up in the enamel of the teeth of infants and children before the hardening of the ename! is complete and especially before the permanent teeth have enupted.

It is this process that inhibits

But for many years since dental fluorosis (mottledenamel). caused by an excessive intake of fluorides in drinking water, has been a serious public health

United States. The fact is that almost all foods contain traces of fliorine. but most of these contribute a negligible quantity to the daily intake of this element.

problem in many areas in the

The American Dental association reports that studies of human beings and laboratory animale do not give any respon to believe that the consumption of fluoride-hearing foods will produce ill effects on health.

The average consumption of drinking water by adults in a temperate climate is about 1,200 to 1,500 c.c. daily, the asso-

If the water contains 1.0 ppm of fluorine, there would be an imake of approximately 1/2 to 1.6 mg of fluorine each day.

water for holman consumption is 1.0 ports.

and home, the group reports, the world, have naturally filtori-

When a city selects a fluoride impoind, consideration should

be given to the availability of acdium fluoride.

Mechanical equipment for feeding fluorides into the water systems has been adapted from machines originally designed for adding other chemicals to water. the ADA says.

The choice of a feeder depends on the rate at which fluoride is required. This rate, in turn, is determined by the extent of water consumption and on the amount of fluoride present in the untreated

As a general rule, solution chespest source, but because of feeders are used for small water its insolubility it would be diffisystems and dry feeders for cult to feed. Some large cities, large ones.

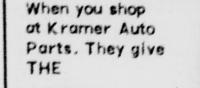
A recent development has been ient where the possibility has the production of a saturator, in this device the water passes through a bed of crystalline Hydrofluoric soid is the third sodium fluoride so that a satursource. This is the more expenated solution of fluoride can be sive method but can be used to withdrawn by the feeder.

The cost of solution feeders is about \$250 without suzillary The soid is corrosive, how- equipment,

Two types of dry feeders are in its handling prohibits its use suitable for fluoridation. Volumstric feeders deliver a measured amount of dry chemical within a certain time period. Price: ience in handling, sodium silico- \$400.

Gravimetric feeders deliver a ising source of fluoride at measured weight of chemical in a given interval of time. These are especially adapted to large been able to purchase it at 3.234 water supplies and are capable per pound delivered, which makes of feeding fluoride for the largest

(Continued on page 13)







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2 terms, \$4; 3 terms, \$5; full year, \$4.

Michigan Air Guard Active

BY CLEMENS LEWICKI of the State Hows Staff

to become a jet pilot.

"Qualified Michigan State University graduates," Brig. Gen. Assistant Adjutant General, said, "can get jet aircraft pilot training through the Air National ANG squadron."

"After meeting the qualifica-

Deskens in Europe Math Seminar

W. Eugene Deskens, associate aircraft. professor of mathematics, has

Sweden. Dr. Joseph E. Adney, Wing. associate professor of mathe-

63 school year for study at Tubin- a week."

You do not have to enlist in date School and upon successful their businesses. the Air Force, Navy, or Marines completion will be commissioned 2nd Lt. in the Air National to an Air Force flying school missions over American cities John A. Johnston, Michigan ANG for pilot training. After re- at regular intervals. ceiving his wings, the new pilot will be assigned to a Michigan

Johnston said that Michigan has the 107th and 171st Tactical Reconnaisance (Tac Recon) Squadrons equipped with RF84F aircraft and the 177th Tac Recon Squadron equipped with RB57A

The RF84Fs, Johnston explainbeen participating in a mathe- ed, are single seater photo reconmatics seminar at Gothe Uni- naisance jet fighters stationed at versity, Frankfort, Germany, Detroit Metropolitan Airport While there he spoke on group While the RB57As are photo reconnaisance jet bombers sta-This week and next he is attend- tioned at Kellogg Field at Battle ing the International Congress of Creek. These Squadrons are Mathematics in Stockholm, units of the 127th Tac Recon

"To stay proficient in jet airmatics, is also attending this craft and fulfill the minimum flying requirements," Johnston Deskins will remain in Europe said, "it is necessary for the on sabbatical leave for the 1962. Guard pilots to fly at least twice

tions, the prospective pilot will number of them are corporation in the recent atomic tests over proficient. be sent first to an Officers Candi- presidents, executives, or own

the primary mission, the sir-

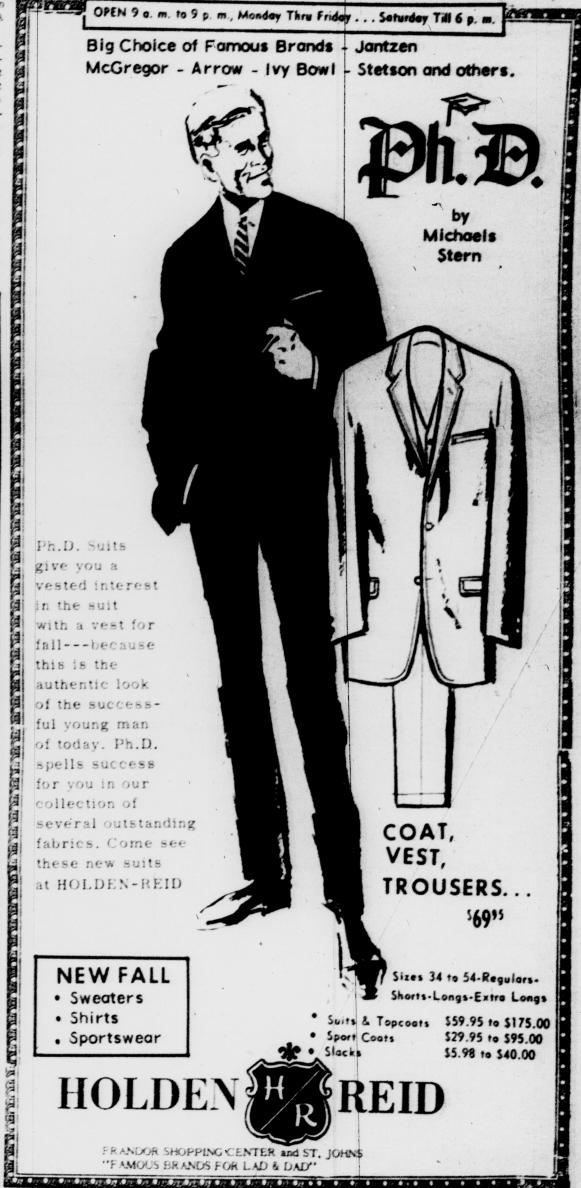
Besides the practice missions, the Guard streraft participate ing exercises with regular Air Force units.

"The 172nd Tac Recon Wing Since photo reconnaisance is is not only made up of jet squad-se primary mission, the air- rons," Johnston said, "it also Guard. He will then be sent crews perform practice photo includes air base supply, food service, and medical units.".

In July, the squadrons are activated for a 15 day field training period and operate out of in Air Defense Command train- Pheips Collins ANG Base at

Johnson Island in the Pacific. He said that the enlisted airmen of the Guard who are not hired as civilian maintenance personnel on the sircraft meet one week-end each month for training at the Guard air fields.

"A prior service airman will receive an immediate assignment in a Guard unit while a new air-Alpena. During this period the man," Johnston said, "receives Wing operates as a regular com- his basic training at Lackland Johnston pointed out that a bat unit giving aircrew and ground Air Force Base, Tex., like a Michigan ANC team participated personnel the opportunity to keep regular Air Force enlistee."





KRESGE







are the chances that it will be an area, notes Arthur Getis. tistical techniques and scientific the site of a new gas station within six months?

Geographers, who used to be a few. mainly describers of the present, are finding that research on such that not all can be taken into and chains of sequence in making questions is helping them to be account," Getis points out. predictions. come, more and more, predictors of the future, reports an MSU geographer.

By thoroughly studying the important factors involved, geogra-

If a new road is built, what to predict the likely growth of many new developments in sta-

thin six months? are many complexities--popula-If there are three super- tion growth, highway plans, lomarkets within a four-block area, acation of industries, availability predictions. Also, we have elecwhat are the chances that there of materials, land values and tronic computers to help us."

is also a department store there? political dealings—to name only

Once the variables have been

"There are so many variables "Even the personalities of entrepreneurs can be variable. What we try to do is consider the most important factors.

"Fortunately, there have been

It is not a simple job. There methods in the past few years. That is why we have been able to do more in the way of making

Once the variables have been selected, the geographer cancall on some well established patterns

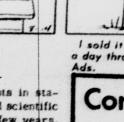
Women's Store Moves to City

Marie's, a fashion establishment in Lansing since 1950, has moved into a new store at the corner of MAC and Albert, East Lansing.

The women's apparel shop opened Wednesday. Mrs. Marie O. Smith, owner, said:

"In addition to clothes for high school and college girls, we also have styles for career girls and the more mature woman."

Marie's is open 9:30 a.m. to 5:30 p.m. each weekday excluding Wednesday. The store is open from 12 noon to 9 p.m.



I sold it for only a few pennies a day through the Campus Want-

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THE ANZAC BY **LORD JEFF**

H.Kositchek bros.

(SINDABALA TEUBUA TI 21)

5 IFYE Students Arrive In Michigan

last week and immediately set host them for the next several irrigated farm. weeks.

Exchange delegates or "IFYE's" will return to their homelands cola and Branch counties. in late November.

ored by the nation's 4-H clubs, Lenawee counties. He halls from gan earlier this summer. seeks to improve international understanding through personal contact," points out Mary Woodward, assistant state 4-H Club leader.

About 2,750 young people have travelled to or from America under IFYE sponsorship in the past 15 years. Nearly 20,000 families have been hosts. A total of 62 Michigan youths have gone to roughly 40 countries, while 123 delegates from nearly 50 nations have come here.

Te-chung Huang of Taiwan (Formosa) will stay with families in Newaygo, Ingham and Lenawee counties. A local 4-H leader at home, he has spent all his life on a 15-acre farm which grows sugar cane, rice, peanuts and cotton. Water buffalo provide the power.

Ryan Moved

Ed "Rocky" Ryan, captain of the 1961 MSU football team, reported to the Ottawa Rough Riders last week after his purchase from the Toronto Argonauts of the Canadian Football League. The 5-10, 196-pound linebacker was picked up by the Canadian team for the \$350 waiver price.

ambassadors arrived in Michigan India will visit Alpena, Lapeer and two other counties. A cattle out to meet families who will breeder, he lives on a 150-acre

Asghar Bahrami Salmasi of The International Farm Youth Iran went to Calhoun County. A community development worker as they are called, will have a in an Iranian village, Asghar farm visits to attend the 47th two-month stay in Michigan. All will later visit Van Buren, Tus- annual State 4-H Show at Michi-

Richard Bailey of Venezuela "The IFYE program, spons- will be in Hillsdale, Kent and

From Spain, Jaime Vinals is visiting Missaukee and Muskegon counties. He lives on a 5,000acre crop and livestock farm near Barcelona.

All five will interrupt their gan State University, August 27-Here they will join four other IFYE's who came to Michi-

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Sandy Brower, Okemos Freshman to-be sets the Fashion pace in a new Cardigan Style M.S.U. Sweatshirt.

> Stop in and Browse Through M.S.U.'s SWEATSHIRT CENTER . Ten Delicious Colors . Seven Popular Styles Plus a New

'Paint-it-YOURSELF" Spartan Shirt*



POLICE RECRUIT CLASS.-University police reckies Arnold Wiles, glasses, Paul Gilligan, center, and Radford Jones get lessons in the use of resuscitator from E. Lansing Fire Department's Sergeant John Cain, right, and Officer Charles Ehrke of the Department of Public Safety. The recruits are

undergoing a six week training program be-fore they go into uniform. They will then spend an additional six weeks working with

other officers before being put on a regular status.

--State News Photo.





Restaurant

Serving complete meals and

Fri. - Sat Late Guest Feature At 11:58

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Doris Day in

That Touch of Mink With Carey Grant



RICHAPD CONTE - CESAR ROMERO - PATRICE WYMORE

Working On the Highway

Some 20,000 students this twice a week by float plane, twice a week by float plane, more found highways Montana assigned nine college the road to a college students to public relations work education.

This estimate comes from the Better Highways Information Foundation, a nonprofit organization supported by contractors and the automotive industry to supply information on highways and their effect on the nation's economy.

In working for state highway departments, the youngsters carried transit compasses, pounded stakes, cleared brush, drove trucks, conducted surveys of road usage, cooked and even designed bridges and roads.

In Connecticut, 54 worked as temporary toll collectors. In remote sections of Alaska, the student workers went about carrying 12-gauge shotguns loaded with bear slugs for protection against bears and cow moose with young calves,

Three students spent most of the summer on Prince of Wales

(Continued from page 1)

eering men, but they don't want to work here."

Discussing the relationship between universities and the legislature, Romney said:

"I favor autonomy for universities. When funds are appropriated, colleges should be able to use them as they see fit. However, the legislature has constitutional control over appropriations and should have informative reports on where the money is going."

The candidate called for a higher type of political activity in the United States.

"Not only young people, but the entire general public, consider politics 'dirty.' We need citizen-minded politicians who demonstrate the inherent honor of governmental activity," he

Romney, a devout Mormon, considers serving one's fellow man through politics as a form of serving God.

The fast-rising political figure who polled over 450,000 votes in the August 7 primary stated Monday that he "would absolutely not seek the GOP Presidential nomination in 1964." When asked about a draft, he replied:

"The possibility is so remote that it would be presumptuous of me to comment. I might add that I've never undertaken any job in my life that I didn't finish. I plan to dedicate myselfentirely to solving Michigan's many problems."



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CASA NOVA

ED 7-1668 211 M.A.C.

WASHINGTON (AP) - Island, 60 water miles from

with motorists. They dressed in hard hats and fluorescent vests and at points where traffic was

delayed by construction, they went down the line of cars explaining the delay, answering questions about the state and handing out pamphlets.

In working for the highway departments the students earned between \$1,25 an hour as laborers to \$2,60 for fledgling engineers. The average was \$1,60 aa

ing arrangements with their technical colleges to give preference to civil engineering students and some have yearround cooperative arrangements whereby the students go to school for a given number of

months and then work for the highway department the rest of the year in order to earn money to continue their education.

Besides prospective engineers, the highway departments employed a number with other specialties - chemists for testing soils and materials, accountants and urban planners.





65¢ to 5:30 P.M.

FEATURE AT

PROGRAM

ONCE IN A WHILE A PICTURE COMES ALONG THAT SPELLS FUN FOR ALL . . . WE HAVE SUCH A PICTURE IN "HATAR!!"



YOU'LL THRILL TO THE FUN IN



"THE SPIRAL ROAD"

FRI. and SAT. 3 Hits ADM. 75°



Blue Hawaii First At 8:07 and 1:48

2nd Feature

A world of strange places and moralities . . . in the most different and touching love story of our time!



SYLVIA SYMS - MICHAEL WILDING JOHN PATRICK - RICHARD QUINE TECHNICOLOR - ----

"Suzie Wong" Shown 2nd At 10:17

3rd Hit

SECRETS OF THE CELLS! SHAME OF INMATES! BABIES BORN IN JAILS! INNOCENTS THROWN IN WITH FEMALE BULLY-BOYS!!!



SHIRLES KNIGHT - ANDREW DUGGAN - CONSTANCE FORD BARBARA ICHOLS - MARGARET HAYES - JEANNIE COOPE WARNER BROS. BRIAN FOR MALTER DON

House of Women Shown 3rd at 12:23

Newest Sound for Warning

What noise grabs a person's attention best?

Herbert J. Oyer, professor of speech, plans to find out. Working through a \$42,780 grant from the Office of Civil Desense, Oyer will attempt to determine what sound or combination of sounds would be the optimum warning signal in event of an attack on the United States.

What qualities would the optimum signal have in addition to being easily audible? Oyer, who has just started on the project, is not sure at this point.

"Offhand, however," he said in an interview, "I can think of several probable requisites. The sound should be of a disturbing nature. Perhaps it should be a sound that suggests danger to a person.

"It should be a sound that would not be confused with some other, something different from the telephone bell or a fire engine which people are used to hearing. It ought to arouse a person from sleep as well as compete with the noises of his regular environment."

The sound could resemble a human or animal sound, Oyer observed. Also, he added, several attention-getting noises could be combined into one signal.

One sound Over wants to try is "white noise." This is a blend of several frequencies (pitches) just as white light is a blend of several colors of the spectrum.

"White noise makes a sort of hissing sound, like a steam clothing presser." Over said. Slight variations in the blend, he added, produce other sounds.

The MSU researcher pointed out that frequency (pitch), intensity (loudness) and other properties of sound can be regulated to produce, sounds of any given specifications, natural or unnatural. Sound waves can be clipped off and regulated in other unusual ways.

"We can do all kinds of things with sound," Over said, "but what is ultimately the best warning signal remains to be determined."

After a thorough review of past research related to this project, Oyer plans to conduct laboratory experiments and actual field trials to determine the relative warning values of various sounds.

PLACEMENT BUREAU

The United States Air Force will be interviewing at the Placement Bureau on Wednesday. They will be interviewing all majors, all degrees for the Officers Candidate School program.



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COLLEGE TRAVEL OFFICE 130 W. Grand River ED 2-8667



STRANGE NOISES—Searching for the best sound to alert a populace to the danger of attack are Herbert J. Oyer, professor of speech, and research assistant, Sharon Thomas. The machine operated by Oyer is used to produce, regulate, record and play back a wide variety of sounds, natural and unnatural.

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Spartans Top Nation

(Continued from page 1) North Carolina, were given a coaching careers of three men. chance to break into the top 20. Charles W. Bachman from 1933

ington State and Tom Hutchinson 1961. of Kentucky; tackles Jim Duna-Sonny Gibbs, Texas Christian, wins, 23 defeats and two ties. and halfbacks Charlie Mitchell,

Daugherty, Saimes and Behrman were pictured along with the nine other All-Americas in a two-page color photograph in the magazine. An action color shot of George Saimes and his teammates in action against Notre Dame is also shown.

Playboy is not the only national magazine or news service to give Michigan State high regard for the 1962 season. The United Press International's board of coaches put the Spartans eighth while they predicted Ohio State

Inside Football, issued by Sport Magazine, agrees with UPI and puts MSU eighth in the nation. Street and Smith's Football Annual pegged the Spartans one notch higher--seventh--and added MSU tackle Ed Budde the All-America candidate list.

not venturing national rankings, picked Michigan State to place second in the Big Ten behind ising Lansing youngster. Ohio State.

Playboy's predictions came on he heels of two national collegiate football surveys which showed the Spartans were a quarter-century national power.

One survey by the Associated Press put the Spartans sixth among the 25 most successful football teams in the last 25 years on a won-lost basis. Oklahoma was first with 191 wins, 53 losses and 10 ties for a .783 percentage compared to Michigan State's 148 wins, 60 losses, 10 ties and .712 percentage.

Michigan was eighth with a .702 percentage. Notre Dame was second, Tennessee, third,

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The MSU record spans the Joining Saimes and Behrman to 1946; Clarence Biggie Munn, on the All-America team are new athletic director, from 1947 ends Hugh Campbell of Wash- to 1953 and Daugherty, 1954 to

The other Associated Press way, Mississippi, and Bobby Bell. survey revealed that Daugherty Minnesota; guard Dave Watson, was 12th among active coaches Georgia Tech; center Lee Roy on basis of won-lost records. He Jordan, Alabama; quarterback has coached his teams to 48

Bud Wilkinson, Oklahoma Washington, and Jerry Stovall, coach, piled up the best record over the years. Former MSU assistant coach Dan Devine ranks



(Continued from page 1)

Thursday at the Men's Intramural Building arena starting at 7:30 p.m. Tickets for this show will be priced at \$1 for adults and 50 cents for students. This will give the youngsters a chance to perform in front of the public, and will offer teachers and for second or first along with coaches among clinic registrants a chance to help plan a show and later evaluate the effort.

Among the clinic registrants are Ed Bengston, coach of St. Clair High School's state champions; Ron Aure, 16, of St. Clair, the state free exercise champion; Sally Noble, 16, of East Lansing, the Michigan AAU horse vault champion in 1961; Susan McDon-Two other magazines, while nell, 16, senior provincial gym champion in Ontario and in Quebec and Helen Content, 11, prom-

Enrolled on the teaching staff are Bill Meade, coach at Southern

FIRST SHOW

7:00 P.M.

TONIGHT ONLY

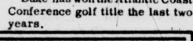
ADULTS 90¢

Illinois, the 1962 NCAA team runner-up; Paul Fina, National AAU free exercise champion; Ed Halik, director of men's activities, American Sokol; Mildred Prchal, director of women's activities, American Sokol; Jim Rozanas, one of the nation's top acrobatic and dance instructors; Ed Cole, national trampoline champ from Michigan and Herb Vogel, coach at Flint Junior Col-

Additional members of the clinic teaching staff are Bob Stout, former U.S., Olympian and now a prep coach in Philadelphia; Ernestine Russell Carter, twotime Canadian Olympian and former MSU student now teaching at Lansing Everett, and Michigan State performers Dale Cooper, Jerry George, Jim Durkee and

Duke has won the Atlantic Coast Conference golf title the last two

Todd Gates.





FEATURE 7:20 - 9:30

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Ex-Spartan Holland Coach

Jim Jebb, 30, former stand-Spartan gridder, Saturday was named head football coach at Holland, Michigan High School.

Jebb played three years at tackle for MSU and wound up his college career as starting left tackle for the Spartans in the 1954 Rose Bowl game.

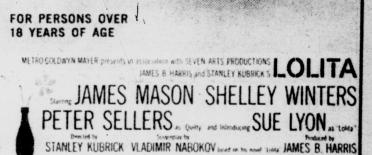
MSU was victorious over

Jebb has been line coach under retiring head coach, William (Bill) Hinga, for the last three

Jebb served two years as line coach at Monroe before moving to Holland. He had two years coaching experience while serving in the Army.

He was All-City and All-State while at Grand Rapids Catholic Central.





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Fish Fossil at Museum

By SUSAN JACOBY Of The State News Staff

Fragments of a 350 millionyear-old fish from the Devonian period of history, possibly the first of its kind found in Michigan, are being studied at the MSU museum.

MSU graduate Robert Carroll discovered the bones seven miles west of Alpena at the shale beds of the Huron Portland Cement Co. Carroll, a Mason resident, is doing graduate work in paleontology at Harvard. Paleontology is the study of extinct forms of life.

Victor Hogg, curator of exhibits at the MSU museum and assistants Dave Bliss and Zeonon Billeadeaux brought a truck to aid Carroll incollecting the fragments

"The bones were encased in over one and one-half tons of limestone," Hogg said.

The Devonian period of geological history was characterized by a rise of fishes. The fish at the MSU museum is a placederm, or armored fish.

"The species was about 30 feet long," Hogg said. "Its mouth would have been about four feet wide and its four cutting teeth would have measured nine inches long."

The area where the fish lived was probably covered by a shallow sea, as land plant fossils were also found near the bones. Plants of the species calixylon were present.

"These were the first known is land plants," Hogg explained.
"They are the ancestors of to- conday's tree fern."

Assembling the fish may prove Z difficult. The bones will have Z to be extracted from limestone.

"Assembling the skeleton of would depend largely on the number of pieces we have." Hogg is said. "If there aren't too many fragments missing, we can make plaster casts of the missing ones.

"We won't do anything with the fragments immediately, as this would require the help of a trained paleontologist. However, it might be very interesting to assemble the fish, particularly if it is the first one found in Michigan."

Scientists are able to tell the Bage of fossils such as the one Bage of fossils such as the one Bage of fossils such as the one Bage of cound near Alpena by studying Variational variations and students of the State of time. Thus, scientists are able to determine the exact age of radioactive earth layers.

"While there is no radioactive matter near Alpena, we can compare the fossil with classified matter from other areas. Thus, we were able to pinpoint its origin as lying within the Devonian period."

The first known amphibians and lobed-fin fish appeared dur- on ing the Devonian period. These eventually evolved into land repartiles.

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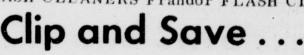
OPEN EVENINGS



FOSSIL FRAGMENTS--Victor Hogg, curator of exhibits at the University museum, examines a fragment of a 350-million-year-old fish found near Alpena. Set in limestone, the bones will be extracted and the skeleton of the fish assembled if enough fragments can be found.

--State News Photo.

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(Continued from page 2)

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IM News

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Today at 6 p.m., V. Kings play Tony's Boys at field 2, while the Butcher Boys meet

the All Stars on field 3. Monday the Paperbacks and the Errors play at field 2 and the Kellogg Flakies meet the Itipends on field 3. Both games are at 6 p.m.

The championship will be decided Tuesday or Wednesday of next week, depending on the weather, with the top team in each of the two blocks playing.



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Those in need of transportation call Mr. Henry Bosch at ED 2-2223.

Lansing Central Free Methodist Church

828 N. Washington, Lansing Rev. F. W. Van Valin Sunday School 10 a.m. Morning Service Il a.m. Guest Speaker Rev. V. J. Anderson Youth Fellowship 6:00 p.m. Evening Service 7:00 p.m. Transportation by Cab-Call IV 2-9857

WHAT THEN ARE WE TO DO? This question is asked every Sunday in the worship service of Central Methodist Church, Lansing. In fact,
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Sheets are prepared for every
sermon. The minister offers five or six suggestions for study and application during the week. Approximately half the congregation takes a sheet

if you wish to worship where persons desire to "Apply Christianity," we invite you to worship with us next Sunday.

Services at 10:00 A.M. SERMON

"How Essential is Jesus?"

Dr. Dwight Large preaching.

9 A.M. Prayer Service Central Methodist Church Capitol at Ottawa

Across from the Capitol

First Presbyterian

Ottawa and Chestnut 9:30 Worship Service Cribbery and Nursery Pro-

SERMON "Jesus Christ Is Lord."

Guest Minister Dr. H. Paul Sloan, Jr.

All Saints Episcopal Church

800 Abbott Road - ED 2-1313 Rev. Robert Gardner

Episcopas Chaplain to M.S.U. Rev. Edward A. Roth

Rector Rev. George W. Tuma, Curate

SUNDAY SERVICES

8:00 a.m. Holy Communion

10:00 a.m. Morning Prayer or Holy Communion. Sermon & Church School.

Clergymen Study Counseling

are going back to school to study counseling at the graduate level.

The demand has become so great at MSU that many applicants for a unique program in pastoral counseling cannot be

The MSU program started only five years ago at the request of Protestant, Catholic and lewish leaders and is already the largest

University Methodist

1118 S. Harrison Rd.

9:45 a.m. and 11:00 a.m.

Rev. Wilson M. Tennant

Nursery, crib room for all

Church School 9:45 a.m. all

WESLEY FOUNDATION

Geroge I. Jordan, Minister

Director

6:00 p.m. Supper

7:00 p.m. Discussion

Wesley Foundation Visitors

to Ingham County Home Tues-

Bus operates around

campus for all services.

WELCOME

"How Free Are You?"

Sunday Evening

day at 6:45 p.m.

Saturday Urban Dale

Trip to Warren Farm

ages.

Glenn M. Frye

services.

Ministers: Wilson M. Tennant

Worship Services

SERMON By

Clergymen in growing numbers of its kind. It has about 30 students studying for the master's degree and 30 more at the doctoral level.

Modern times, modern stresses, wider acceptance of psychology and increasing awareness on the part of clergy of the importance of personal relations all play a part, report the men in

Edgewood Peoples Church

Interdenominational 469 North Hagadorn Road blocks north of Grand River) ED 2-8693

MINISTERS

Rev. Truman A. Morrison Rev. R. Paige Birdwell, Jr.

SUMMER. SERVICE 9:30 A. M. Sunday, August 19 Sermon by

Rev. R. Paige Birdwell, Jr. "Two Types of Faith"

Church School, Cribroom through 5 years old , 9:30a.m. Affilated with United Church Of Christ, Congregational-Christian, Evangelical and Reformed

WELCOME

Seventh - Day Adventist Church

Temporarily meeting at University Luthern Church Division and Ann St. SATURDAY SERVICES 9:30 a.m. Sabbath School 10:50 a.m. Worship Service

ROGER W. COON - minister For information or transportation call 355-0991.

St. Johns Student Parish

Fr. R. Kavanaugh Fr. T. McDevitt 327 M.A.C.

Sunday Masses

7:15-8:30-9:45-11:15 (Babysitting at 8:30 & 9:45) Daily Masses 6:45 a.m. 7:20 a.m. & 8:00 a.m. Saturday Masses 8:00 & 9:00 a.m. Confessions daily during 8:00 a.m. Mass and Saturday 4-5:30 & 7:30-9 P.M.

> Novena Services Tues. 7:30 p.m.

7:00 P.M. THURSDAY MEETING & OPEN HOUSE Saturday Dance 9 - 12 P.M.

Phone ED 7-9778

Kimberly Downs Church of Christ

1007 Kimberly Drive, Lansing

(2 blocks W. of Frandor Shopping Center on E. Grand River)

IV 9-7130

Gerald O. Fruzia, Sr.

SUNDAY SERVICES

Bible Study 9:55 a.m. Morning Worship 10:55 a.m. Evening Worship 6:00 p.m. Evening Wednesday Evening 7: 30 p.m. Thursday Evening Ladies Bible Class 7:30 p.m.

For Transportation Call FE 9-8190

ED 2-1960 or ED 2-2434

Peoples Church East Lansing

Interdenominational

200 W. Grand River at Michigan

SUNDAY SERVICE

1,0:00 a.m.

THE UNCONCIOUS INFLU-ENCE OF A GOOD LIFE

Reverend Roy J. Schramm

Church School 10:00 a.m.

Crib room through 6th grade.

11:00 a.m. Fellowship Period-Refreshments

University Lutheran Church and Student Center

National Lutheran Council Division and Ann Street, E.L. (2 blocks north of Berkey Hall) 332-2559

Pastor: C. T. Klinksick Campus Worker: Tecla Sund SUNDAY WORSHIP

9:00 & 10:15 A.M. Sermon: "Churchmanship-The Latitudes and The Lib-

erities." Pastor Klinksick SUNDAY SCHOOL

9 A.M. only Nursery care is provided at all services.

STUDENT SUNDAY SUPPER 5:30 p.m.

Meet at the church

(Participating in United Campus Ministry.)

First Church of Christ Scientist

709 East Grand River East Lansing

Church Service 11 A. M. Sunday School 11 A. M.

> Subject "SOUL"

Wed. Evening Meeting 8 P.M. Reading Room 134 W. Grand River

Mon. thru Sat. 9 a.m.-5p.m. Mon. Tues. Thurs. & Friday 7:00 - 9 p.m.

All are welcome to attend Church Services, and visit and use the Reading Room.

FIRST WESLEYAN METHODIST CHURCH

North Magnolia Ave. at Michigan

Sunday School - 9:45 AM

Morning Service - 11:00 AM

SERMON BY THE PASTOR

East Lansing Trinity Church

Interdenominational

120 Spartan Avenue

Rev. E. Eugene Williams Pastor 11:00 A.M.

"Godliness In The Home" Dr. Norman R. Piersma

7:30 p.m.

Other Services 9:45 A.M. Discussion Group

7:00 P.M. Wednesday evening

Phone the Church office, concerning bus schedule

Martin Luther Chapel And Student Center

444 Abbott Road, East Lansing 332-0778 Theodore K. Bundenthal, Campus Pastor SUNDAY SERVICES

"The Church Can Learn Lesson From the World." Rev. Claybusch

Worship Service

9:00 a.m.

7:30 p.m. Mr. & Mrs. Club

Call Rev. Woldt for counseling Church 482-2252 or Home 485-0198

Transportation provided ---ED 2-0778

Eastminster Presbyterian Church

1315 Abbott Rd., East Lansing Rev. Robert L. Moreland, Minister

541 Walbridge Drive, E. L. Study Phone: ED 7-0183

SUMMER PROGRAM

10:00 a.m. Church School for 6th grade's under. 10:00 a.m. Worship

Sermon

"Christian Concern" Elder Edward M. Barnet

For Transportation Call ED 7-0290

SOUTH BAPTIST CHURCH

SOUTH WASHINGTON AT MOORES RIVER DRIVE, LANSING HOWARD F. SUGDEN, D. D., Pastor DESMOND J. BELL, Assoc. Pastor Bible School 10:00 A.M. Morning Worship 11:00 A.M.

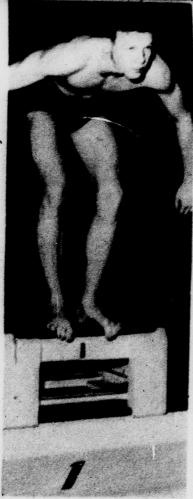
> Dr. Wilbert Welch President Grand Rapids Bap tist Seminary 7:00 P.M. Dr. Welch

Adult Youth Fellowship 8:30 P.M. Call IV 2-9382 for free bus service morning and evening.

"The Source of Eternal Life" Dr. Piersma

For University Students

Prayer and Bible Study. ED 7-7966 for information



at Ft. Riley, Konsus ROTC Summer Camp swimming meet places; 40 yard freestyle, 200 yard freestyle, and 140 yard breaststroke. Brackett underwent six weeks of training to fulfill requirements for commissioning as a 2nd lieutenant in the Army Reser-

Spartans Shine At Camp

Michigan State's Army ROTC cadets topped several competitive events at the six week Fort Riley, Kansas summer camp during June and July.

Richard Brackett, Wilmette, Ill., senior, was the camp's top swimmer. He won the 40 and 200 yard freestyle events, the 120 yard breaststoke. The trophies were garnered in competition with collegiate swimmers from all over the midwest, including other Big Ten schools.

Brackett was a varsity swimmer here at Michigan State, Now an Army second lieutenant, he reports shortly to Fort Benning. Georgia for his Army duty.

John Laing, East Lansing senior, fired a high 47 on the Army's "trainfire" rifle course to qualify for the Port Riley Rifle team and to win third place among the 1500 cadets who competed. Laing also shoots on the Michigan State rifle team.

Paul F. Bergdalt, Vasser jun-CADET TOP SWIMMER -- Ex- for, topped his 190 man company varsity swimmer Richard in the Combat Proficiency Test. Brackett topped other cadets The Combat Proficiency Test is a physical training test set up to measure those skills necessary for a soldier in combat. It includes a speed crawl, a grenade throw for both distance and accuracy, a mile run, and simiiar events.

Bergdalt's 488 out of a possible 500 placed him eighth among the 1500 cadets in the camp. The average score for a trained physically fit soldier is 250.

Only Slight Jump Seen

The size of the new freshman instruction, Sabine said. class may increase by about biggest factor in maintaining a mains to be seen, he said. high enrollment figure will be the number of returning sophomores out when we get to registration," and juniors, said Gordon A. Sabine said. "There are so many

of special projects.

cient to maintain the quality of

The effect on enrollment of the 100 more than last fall, but the recent rise in tuition costs re-

"We'll have to wait and find Sabine, vice president in charge variable factors that it would be impossible to make a prediction Present classroom space and of the enrollment figure."

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