

Bombs Over Ploesti

Month End Finale Hits Nazi Rail, Oil Centers in Romania

LONDON, May 31 (AP)—Powerful forces of between 3,200 and 3,500 American heavy bombers and fighters from west and south bombarded four German railway centers and the Nazi oil source at Ploesti in Romania

Today's Campus

... Fair Exchange

An example of the kind of a professor that students love to have was given by a chem lab instructor Monday. The professor had an afternoon lab section for an advanced chem course. Monday, one of the bright young ladies of Super his class marched up to swim him and announced that she had a car for the day, and that if he would excuse the class she would take them all swimming. After a few minutes pondering the instructor agreed and they packed up and went to Lake Lansing for a dip.

... Two of a Kind

A case of mistaken identity has deprived Virginia Atkinson, Cleveland Heights, O., sophomore of her summer shoes. She wrote home asking her mother to send her brown and white specs back with the rest of her laundry. Her laundry arrived, she rummaged through it looking for the shoes. Her search was fruitless. Upon closer examination of its contents she found a pair of specs, but the wrong kind. They were brown and white sun glasses.

Sororities to Vie for Sing Award in Band Shell

Top singers of the national sororities on campus will compete for the possession of the cup awarded annually by PanHellenic council to the best performers at the sing, which will be held tomorrow at 6:30 p.m. in the band shell.

Judges include M. W. McIntire, music director at Lansing Eastern high school and Lansing Presbyterian church, and Wm. N. Norton, former head of the music department at North Dakota State University and present conductor of the Norton male chorus and member of the Flint community music association.

Points on which the groups will be judged are: enunciation, 15; attack and release, 15; tone quality, 20; rhythm, harmony and balance, 15; interpretation, 15; selections, 15 and appearance, 5.

Don Buell of the speech department will act as master of ceremonies.

The concert will take place in the band shell unless rain necessitates the use of College auditorium. A small number of seats will be provided, however, none of these will be reserved.

Hannah Holds Senior Reception Tonight

Pres. and Mrs. John A. Hannah will honor the senior class tonight in the Union ballroom from 7:30 to 10, Larry Frymire, Chicago, Ill., class president announced.

The President's reception is an annual affair to which all graduating seniors and faculty members are invited.

Frymire said that it is to be an informal function and refreshments will be served.

today in a thunderous finale for a month which saw Allied planes fly a record-breaking 148,000 sorties.

In skies virtually clear of the enemy and at a cost of one bomber and four fighters, from 750 to 1,000 American heavyweights from Britain pounded crowded railway yards at Hamm, Osnabruck, Schwerte and Soest—transport centers just inside Germany which feed the coastal defense zones.

For the fourth consecutive day more than 1,200 fighters flew escort but finding no opposition in the air they swooped down and shot up more than 35 locomotives and aircraft parked on air-dromes.

No Allied Loss

Late in the day Thunderbolt and Lightning fighter-bombers attacking two western German air-dromes struck the first sizeable fighter opposition, 30 FW-190s, and shot down five without loss to themselves.

Smoke clouds visible for miles rolled up from the Ploesti fields after upward of 750 Fortresses and Liberators from Italy dropped their cargoes of destruction, hitting at least one major refinery. It was the third straight day of big bomber attack on central Europe from the south.

Little Opposition

While the Mediterranean air raiders met enemy fighters and heavy flak, the blows from Britain caught the German air force with its guard down and met little opposition from the ground or air. Some planes flew through great cloud banks and had to use overcast bombing technique.

One task force veered south to draw off possible fighter packs and raked an enemy air base at Luxuil, about 200 miles east and south of Paris in the old French Maginot line.

Waves of tactical bombers and fighters kept up the unrelenting attacks on the invasion coast. They rumbled over the channel for three hours, one formation requiring a half hour to pass.

Peace Agreement to Unite Powers

WASHINGTON, May 31 (AP)—The four leading Allied powers are believed by informed officials here tonight to see eye to eyes already on many points of postwar world organization—including particularly the assurance of an adequate voice to small nations.

This is a major factor behind the apparent feeling of confidence in high quarters that the forthcoming Washington conversations among the United States, Britain, Russia and China can make progress toward an effective world organization to secure peace.

The big four meeting probably will be held in the late summer or fall. Such differing views as do come up may be focused initially on the question of how to apply police force.

Research Pins Down Causes of Tooth Decay

Conclusive proof that heredity is a factor in tooth decay has been provided through experiments being conducted on campus with rats, by Dr. H. R. Hunt, head of the department of zoology, and Dr. Carl A. Hoppert, professor of chemistry.

In February, 1937, the experiments were begun on a random collection of 119 rats, fed on a diet of rice and powdered whole milk, alfalfa leaf meal and salt.

Within 40 or 50 days, some of the animals developed cavities, while others were free from tooth decay for considerably over 100 days.

Two Strains Bred

A process of selection and

MICHIGAN STATE NEWS

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EAST LANSING, MICHIGAN, THURSDAY, JUNE 1, 1944

No. 170

Hannah Calls Convo on New Basic College

Curriculum to Be Subject of President's Talk to Students

All civilian students of the college will be excused from classes at 9 a. m. tomorrow for the second general convocation of the term in College auditorium, Pres. John A. Hannah announced yesterday.

In order that students may better understand the revised educational program which goes into effect next fall term, Hannah will discuss the reorganization as it will affect present State students and as it will affect entering freshmen. An opportunity to ask questions will be afforded if the audience so desires.

Hannah hopes that students will leave the convocation understanding their own status better and able to inform correctly any persons interested in the curricula changes. Because of the importance of the subject to each individual, Hannah stressed that every student is expected to attend.

In addition to the president's talk, the music department will provide some brief entertainment at the beginning of the hour.

All civilian and mixed classes will be excused at 9 tomorrow morning so that students may attend the convocation. The program should not run over into the next hour, Hannah added.

Dance to be Final Senior Function

Graduating seniors will present their last social function Saturday evening when they will sponsor the commencement dance in the Union ballroom from 9 to 12 p.m.

Gene Devine's orchestra will play for the dance which will be informal and open to all classes as well as air force men, according to Co-chairmen Nancy Grayson, Detroit, and Pete Buth, Comstock Park.

Tickets may be secured at the Union desk, the Administration building, and at Maçon-Abbot hall.

Decorations will follow the theme "Four Years in Review," showing sketches of memorable college activities. The grill will be open for refreshments, Miss Grayson stated.

Prof and Mrs. Hans Leonhardt will serve as patrons for the evening.

Jackie Meehan, Louisville, Ky., and Ned Mann, Cass City, are in charge of entertainment while publicity is being handled by Barbara Ballard, East Lansing, and Kay Riney, Detroit.

Allies Smash Fortress on Outskirts of Rome

Troops Approach Pope's Castel Gandolfo Home

ALLIED HEADQUARTERS, NAPLES, May 31 (AP)—American and British troops drove into Rome's outer defenses with increased fury today and smashed through to a point west of Velletri, a key fortress in the Nazi's

Council Officers Will Take Posts Fall Term

Jim Bibbins, Buffalo, N. Y. junior, will serve as president of Student council next year following elections held Monday night at a dinner meeting of all present and newly elected members of council. Bibbins was chosen to represent the Ag division two weeks ago.

Chosen as vice-president was Ed Wallace, Hartford, Conn., junior Vet student who was elected previously as the representative of the Vet division.

Bibbins succeeds Gordon Hueschen, Pigeon junior, as president of the organization. The new head is president of Sigma Nu; member of Blue Key, junior and senior men's honorary. Alpha Zeta, Ag honorary and a member of the student-faculty social committee.

Helen Fisher, Grand Haven sophomore, was elected secretary-treasurer of the council. Miss Fisher is the divisional representative from Applied Science.

Retiring officers of the organization are Hueschen; Anne Eldridge, Grosse Pointe junior, vice-president, and Helen Muncie, East Lansing junior as secretary-treasurer.

Other council members, in addition to the remaining divisional representatives are members from PanHellenic, Interfraternity council, Interfaith council, CDC, AWS, State News, Union Board, women's dorms and women's cooperatives.

Brandt, VanAken Get Board of Ag Awards At Senior Swingout

Alice VanAken, Eaton Rapids, and Warren Brandt, Lansing, were awarded the board of agriculture prize for the highest senior men and women's averages at senior swingout last night.

Brandt, who had an all-college average of 2.81, has been in the army for several weeks, and his award was accepted by his wife, Miss VanAken had an all-college average of 2.7.

The prize is awarded annually by the board of agriculture, governing body of the college, and amounts to one hundred dollars.

Also featured at the swingout ceremonies last night were talks by Pres. John A. Hannah and Glen O. Stewart.

powerful new mountain line before the tereal city.

Allied troops who advanced through deadly fire and repulsed savage counterattacks west of Velletri were reported to have reached a point within six miles of the Pope's summer home at Castel Gandolfo and within approximately 16 miles of Rome.

British forces driving up from the south, on the coastal flank of the 25-mile battle line before the Italian capital, were edging forward through thick mine fields south of Pescaraella Nuova, which is 14 miles due south of the edge of Rome.

Nazi forces entrusted with the immediate job of stemming the Fifth army's assault until the bulk of Field Marshal Albert Kesselring's 10th army could be withdrawn from the broken Hitler line, continued to offer desperate resistance all the way from Valmontone to the sea.

An Allied communique said "it is now clear the enemy intends to hold this line at all costs."

All available German troops have been thrown into the line, and it has become plain, a headquarters spokesman acknowledged, that only a very powerful drive will split it open. All four key strongpoints in the line—Valmontone, Velletri, Lanuvio and Campolene—have been under fierce assault for several days and fast are being turned into smoking ruins by massed Allied artillery.

Allied airmen took a continuing toll of enemy troops and transports withdrawing before the Eighth army.

Bike Rules Posted by Police Chief

In order to improve the bicycle traffic in East Lansing the following regulations have been put into effect as stated by R. W. Rogers, chief of East Lansing and campus police.

No person shall ride a bicycle upon a sidewalk within the business district.

No person shall park a bicycle in the business district except in bicycle racks.

No bicycle shall be used to carry more persons at one time than the number for which the bicycle is designed and equipped.

Every bicycle, when in use at night, shall be equipped with a lamp on the front which shall be visible from a distance of 300 feet, and with a red reflector on the rear which shall be visible for a distance of 200 feet.

TIME TABLE

TODAY—

- La Cofradia, 5 p. m.
- Org. rm 1, Union
- Big Sister Council, 5 p. m.
- 7 Union annex
- Sigma Chi pledges, 6:30 p.m.
- 11 Union annex
- Delta Zeta, 7 p. m.
- Spartan room
- Christian fellowship, 7 p. m.
- 111 Union annex
- Phi Delta pledges, 7 p. m.
- 15 Union annex
- PanHel council, 7 p. m.
- Org. rm. 2, Union
- Senior reception, 7:30 p. m.
- Union ballroom

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Along FACULTY ROW

By J. S. FRAME
Professor of Mathematics
PRIOR to last summer, four members of the mathematics staff at Michigan State college were on leaves of absence to carry on essential work in connection with the war effort. Since the AST program was curtailed, three more have also been granted leaves of absence for the duration of the war emergency.

The report spread that some mathematicians were available for employment, and many firms have been offering to pay transportation expenses for an interview and have also been making tempting salary offers to secure trained mathematicians.

The need for mathematically trained investigators in the applied field is already recognized, and is likely to continue after the war emergency.

The details of what these men are doing is cloaked in military secrecy. But we do hear from them from time to time. The first to leave us was Dr. A. C. Cohen, Jr., who was a captain in the reserves in 1941 when he was called to duty.

As a trained statistician he was snapped up for work in quality control at the Picatinny arsenal. While there he wrote a manual on quality control. When last heard from he was a major doing statistical work at the Aberdeen proving grounds in connection with powder manufacture.

Next to leave was Dr. Richard Beth, associate professor of mathematics, who was called to do mathematical work of a secret nature under the auspices of the National Research council. He has been working at Princeton, N. J., and is known to have

taken some business trips to Florida.

In the spring of 1942, Dr. C. C. Hurd, assistant professor of mathematics at MSC, received a commission in the United States coast guard reserve, and was sent to the United States coast guard academy at New London, Conn. When last heard from he was a full lieutenant and acting head of the department of mathematics.

A year later, in the spring of 1943, Dr. G. B. Vanschaack, also an assistant professor at MSC received a commission in the navy as lieutenant (jg) and was ordered to active duty in the State of Washington. His duties have involved the teaching of mathematics, but although it is known that he has been in the Aleutians, his present location and assignment are not known to us.

Without in any way detracting from the heroic contributions of the men who do the foot work and hand work in our armed services, it must be realized that this war is more than ever a scientists' war, and that applied mathematics is one of the sciences which is called upon to solve many of the difficult problems which arise in mechanized warfare.

Two mathematicians from Michigan State college, Dr. C. P. Wells and Dr. B. H. Bissinger, have recently been granted leaves of absence to carry on an important work in the applied mathematics group of the division of war research, the exact nature of which is confidential.

In a different capacity, Dr. E. T. Welmars has been granted a leave of absence to serve as a mathematician in the flight research division of the Bell Aircraft company. In the same company, but in the engineering division, are two other former Michigan State teachers of mathematics, Dr. J. Van Lonkhuyzen and Dr. V. Morkovin.

At the Curtis Wright plant in Buffalo, is another former MSC mathematician, Dr. E. E. Blanche. In radio research work for the federal government is still another former mathematics instructor, also an MSC graduate, Sam Stewart.

Students often ask the question "How can a man do research in mathematics?" The answer depends of course on the caliber of the mathematician. That research is being done is evidenced by the fact that almost 10,000 research articles from some 150 mathematical journals have been reviewed in the *Mathematical Reviews* since its

See—FACULTY—Page 4

In Campus Quarters

By RO ROWLAND AND NANCY SHEPHERD

IT IS STRANGE how Memorial Day always turns out to be such a blessing to students. They either find added hours for dreams which they have missed out on all term (perhaps all year) or they snatch the time to whip off six term papers.

On the other hand, there are a lot of sun burned faces, so maybe the luckier ones laughed at heat waves while swimming in real waves. However, the steam that has been rising has brought great news of rings and pins and has brightened the tone of wedding bells to take minds off school and parched throats.

Ava Jean Humphrey, Alpha Phi, surprised everyone with a diamond ring which she received from Lt. James Hupp, USAAF, who recently received his commission. A. J. left last week for Alabama to attend Jim's graduation exercises. Lieutenant Hupp, who is now on leave, will return to Alabama Sunday for duty.

Jac Carrier, Sigma Nu, has excellent reason for jolly smiles because Saturday night he passed his white star to Mary Kelly, Alpha Gam.

Beth Lonergan, also an Alpha Gam, surprised everyone Tuesday with the announcement that she and Ens. Ed Cavanaugh, Sigma Nu '43, will be married sometime in June, navy permitting.

The second Delta Upsilon pin to reach the Alpha Gam house in the past 10 days was brought back from Pontiac by Barbara Hoard and was given to her by Lt. Fred Poole, of the army air forces, who was graduated from the University of Michigan.

Still with the Alpha Gams, Linda Weber was awarded the scholarship cup and Joy Randall Rowe the activities cup at a Founder's day breakfast held in the Forestry cabin Tuesday.

Betty Ann Wendland, Alpha Phi, disturbed the peace of Saturday evening when she came in all weighted down with a Psi U pin from Dick Curtis. Dick is a former State student now stationed at the University of Michigan with the marines.

A recent news flash brought word of the marriage of Marvis Laine Tooley, East Lansing, and A/C Frederick R. Gillen, May 13 in the post chapel of Altus army air field, Altus, Okla. A/C See—QUARTERS—Page 4

Grin and Bear It . . . By Lichty



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Skeleton Track Team to Run in State AAU at Ypsilanti

Four Thincads to Journey to Annual Meet

Four Spartan trackmen will go to Ypsilanti Saturday to compete in the Michigan AAU meet sponsored by the Detroit police department, Coach Karl Schlademan announced.

The four to make the trip will be Bob Mosher, Grand Haven freshman; Bob Price, Belding sophomore; Tom Geoghagen, Detroit freshman, and Harold McMacken, Howell freshman. Mosher Outstanding

Outstanding entry of the four will be Mosher, according to Schlademan. Mosher is a middle distance runner and may run either the 440 or the 880. He set a quarter-mile record in the Class B meet two years ago when he ran for the school for the blind in Lansing.

Price will run the two mile event. Geoghagen is entered in both the mile and the half-mile. He will probably run the mile in the meet. McMacken is a shot-putter.

Little Expected

Schlademan said that he could not expect too much from any of the men because they have not been able to train with competition, a necessity for middle distance running. He declared, however, that both Mosher and Price should place.

The chief reason for participation in the meet is to give the men some experience in intercollegiate running. None of the four has had any previous college competition.

Chief contender for the AAU title is expected to be the Detroit police team. Western Michigan college is also entered in the meet. U. of M. is not going to participate.



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Stage Crew Plans Wagon Sets for Term Production

Quick changes of sets by wagon stages will be innovated in the play production of "Letters to Lucerne," all-college spring term play to be staged June 7 and 8. C. H. Nickle, stage director, stated.

Wagon stages enable the 13-hand crew to move the second of two sets on stage in two minutes. The set, moved on stage on a 30-foot platform, is set up inside set one and moved off-stage for the third act.

Set one of the play depicts the assembly room in a girls' school in Switzerland. Set two depicts a blue dormer room for six senior girls at the school.

A portion of the Alps, which constitutes the Swiss background was painted by Betty Behrens, Dearborn freshman, assisted by Madge Rohm, Ludington freshman. The painters signed their work by painting two figures at the top of the highest snow-capped peak.

The stage crew began work on the sets April 25 and plans to have them ready to move on stage Monday, when dress rehearsals begin. Crew members are given credit for the hours of their work by Theta Alpha Phi, dramatics honorary fraternity.

Tigers Defeat Yanks on Unser's Home Run

DETROIT, May 31 (AP)—Utility infielder Albert Unser hammered a four-run homer with two out in the ninth inning today to give the Detroit Tigers a 6 to 2 victory over the New York Yankees for a third straight triumph over the champions. The Tigers thus extended their winning streak to five games.

Detroit was trailing 2 to 1 going into the ninth and Rookie Walter Dubiel, who had pitched a four-hitter, seemingly had things under control. But an error by Shortstop Mike Milosevich set off a five-run rally.

Diamond Squad Prepares for Last Home Tilt After Losing to Custer

Spartans will begin preparations tonight for their last home game Saturday at 3 p.m. when Coach John Kobs put his squad through their paces for the last time in East Lansing. State took one of the worst wallopings in history from Fort Custer in Tuesday's game, going down by a score of 28 to 12.

The Custer men collected 23 hits off five Spartan pitchers. Yarling opened on the mound for State, was replaced in the second by Krestel. Krestel was removed in favor of Couey in the sixth frame. Couey lasted until the ninth when Ashley and Justema were both needed to retire the army team in the last inning.

Spartan stickman knocked five Custer pitchers for seven hits. Highlights of the weak Spartan offensive was a two run homer by Jack Breslin in the first inning.

Twelve fielding errors did no harm to the Custer cause, but cannot be blamed for the defeat, since the 23 hits, many of them for extra bases, accounted for most of the tallies.

The contest started out closely. After Custer got three runs in their half of the first, State came

back to get four.

Another three runs were added to the army total in the second, but the Spartans forged into the lead in their half of the inning with five runs.

They stayed in the lead in the third frame for no runs crossed the plate for either side. But from the fourth on the army men had it virtually their own way. The Spartans perked up to collect five runs in the seventh inning.

Senate Groups Argue Over Amendment

WASHINGTON, May 31 (AP)—Conflicting reports by groups on the senate banking committee today fanned a controversy over whether the Bankhead Cotton "Escalator" amendment to the Price Control act would crack the stabilization line.

The majority statement held that it would not; that farmers would be benefitted and that consumers would gain.

The minority held that it would lead to at least a five per cent rise in cotton goods ceilings that would cost the consumers \$350,000,000 a year.

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Reds Repulse Nazi Forces in Romania

**Air, Tank Battles Rage
Along Eastern Front
in German Push**

LONDON, Thursday, June 1 (AP) — Large German forces continued to attack fiercely Russian lines north of Iasi in Romania yesterday but were repulsed without advancing "even one step" and left "thousands of dead" on the battlefield, Moscow announced today.

The enemy's losses were enormous in the series of attacks and counter-attacks which raged throughout the day, the Russians said in the broadcast supplement to their nightly communique.

Tank Battle Rages

Giving an indication of the intensity of the furious air and tank battles which started Tuesday after a six-weeks lull on the main eastern front, Moscow reported knocking out 122 German tanks and shooting down 164 enemy planes in two days of fighting.

The full meaning of the assault remained obscure. Associated Press Correspondent Eddy Gilmore in a dispatch from Moscow said the Soviet press and radio had carried no stories from the front lines and gave no elaboration on the communique.

No Changes on Front

Gilmore said the Nazi thrusts appeared designed at upsetting Soviet concentrations in that sector rather than the beginning of a full-scale offensive, but added that it still was too early to say definitely.

FACULTY

(Continued from Page 2)
inception in 1940.

There is no hard and fast line between pure and applied mathematics. The pure mathematics of yesterday becomes the applied mathematics of tomorrow, and conversely, many problems arising in applied sciences are the basis for extensive investigations in pure mathematics.

Some of the new fields in which mathematics is being applied today are in the study of elasticity and plasticity, in fluid dynamics and the design of airplanes.

Statistics is playing an increasingly important role in national life. In this connection, there is to be a week's conference in quality control on the MSC campus beginning June 9, organized by Prof. W. D. Baten, which men from many industries will attend to learn statistical methods of controlling the quality of machine-made articles which must meet certain precisely defined measurements.

One other common student question is this: "What opportunities are there in mathematics besides teaching?" Some hints for mathematicians on a higher level have already been given in this article. The fact that mathematics on a first year college level is also of importance today is evidenced by the fact that mathematics is one of the fundamental subjects required in the army air force and AST training programs.

Statisticians are needed not only in the advanced theoretical work, but in the applications of statistics to problems in industry, agriculture, engineering and other fields.

A major in mathematics is also a good preparation for research in theoretical chemistry, physics, biology, economics, and other sciences, where the literature is becoming increasingly strewn with derivatives and integral signs which are baffling to the reader who is not familiar with the calculus.

Finally, mathematics is of sufficient beauty and interest for its own sake, quite apart from its applications, that a student who enjoys the subject, and who is coming to college to prepare for life and not merely to prepare to earn a living, might well consider a mathematics major as an integral part of a liberal education.

QUARTERS

(Continued from Page 2)

Gillen is from Jersey City, N. J., and is a graduate of Seaton Hall, Jersey City. They are residing at Frederick, Okla.

There will be numerous smiles, happy tears, and congratulations in Dearborn Saturday when Jean Rheinfrank, Kappa Kappa Gamma, and Bob Hawks, Delta Chi '42, will speak their marriage vows at 5 p. m.

The Kappas are in a double whirl because they also have another wedding to attend Friday afternoon when Lois Luecht, '43 and Ens. Travis Pollack, Delta Sig, will be married in St. Johns.

The Kappa Deltas entertained their prospective brides to be and recent brides at a desert bridge recently. The women will be slightly busy in the near future when three of their sisters plan to be married on the same day.

THE WOMAN'S WORLD

GREEN SPLASH

Members of Green Splash will have a picnic and canoe trip Tuesday, June 6. Women who wish to go should sign in the woman's gym before 5 p. m. today.

The group will meet at the women's gym at 5. They expect to return by 9 p. m.

BIG SISTERS

Mabel Peterson, housing supervisor, will be the speaker at the training meeting today of all women who signed up to be big sisters for next year.

It is required that everyone come to this meeting in order to

realize the responsibilities of the big sister. The meeting will be held in Music auditorium at 5 p. m.

TOWN GIRLS

Town girls will have their regular luncheon meeting in their lounge this noon, according to Margaret Rendall, Lansing junior.

FRESHMAN WEEK

Women in charge of Freshman Week activities for big sister council will meet in room 7 of the Union annex today at 5 p. m., Dorothy Englehardt, chairman announced.

Instructor to Take Leave of Absence

A leave of absence has been granted to John A. Young of the geology department in order that he may work with the Sun Oil company in Texas.

He will be in the oil production division, working in his original field. The demand for increased production in oil and petroleum has resulted in his transfer.

Young has been on the staff at State for five years, having come from Harvard where he was doing graduate work. Besides geology he also taught agriculture and ASTP geography classes.

For Graduation and Father's Day

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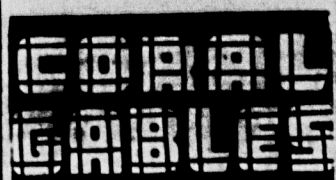
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