



Relay Failure Brings Blackout To Hub Vicinity

Overload of L Street Station Causes System To Lose Synchronism

Sunday, November 19

Flashover failure of a relay at the Pratt's Junction, switching point of the New England Electric System, interrupted electric service in the Boston vicinity and outlying sections for over an hour. Although the disturbance lasted less than thirty seconds at the switching point, causing a momentary flicker in most of the districts served directly by N.E.E., its effect on the Boston Edison System were serious.

Due to the low water level at their hydro-electric plants, N.E.E. was taking a large part of the 140,000

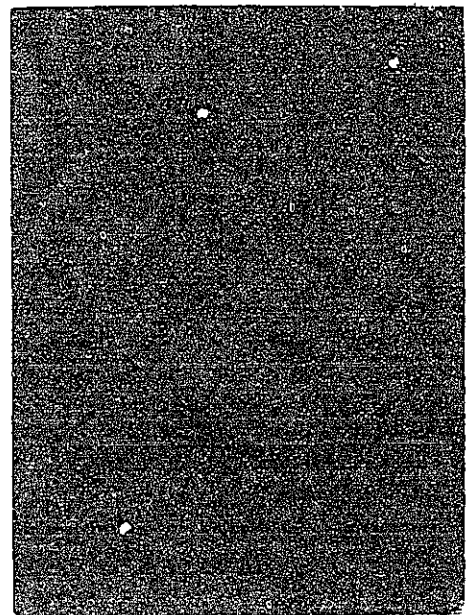


Photo by Honigsberg

Pictured above is an aerial view of the Cambridge-Brookline area during the power failure last Sunday night, taken from The Tech's special plane. It is possible to make out a few scattered lights from buildings with emergency lighting.

kw being put out by the L Street Station in the Edison System. Since it was supplying only the low Sunday night load in addition to the power being sent out to Pratt's Junction, only about 75% of the station's generator capacity was on the line, and the momentary overload due to the flashover was sufficient to pull the station and the large section of the state it was serving out of synchronization, finally shutting down the station.

Cambridge Electric Light had about 30% reserve capacity on the lines, but they were unable to take up the load before the whole sys-

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Tucker To Lecture On Music Next Mon.

Contemporary American music will come under the scrutiny of the Institute's Prof. Gregory Tucker next Monday, November 27, in Room 2-190 at 5:00 p.m. A lecturer in music at Technology, Tucker will speak on "Sources of American Music."

Before coming to the Institute in 1947, he was a Professor of Music at Bennington College and at this time toured extensively as a concert pianist. Many of his appearances were in South America and he has recently played with the Boston Pops Orchestra.

Tucker has also composed several works, the most recent being a ballet which had its premiere at the American Festival of Dance in New London, Connecticut, this past summer and which will be produced by the New York City Center in March.

Brown Will Aid Hazen As Head Of E.E. Dept.

Appointment of Professor Gordon S. Brown as Associate Head of the Department of Electrical Engineering at the Institute was announced Saturday night by Dr. Thomas K. Sherwood, Dean of Engineering.

Professor Brown, who is Director of the Servomechanisms Laboratory, will share administrative responsibilities for the department with Professor Harold L. Hazen, who has been Head of the Department since 1938.

Pioneer in Servomechanisms

Dr. Brown, a native of Australia, was educated at the Institute, received the degree of Bachelor of Science in 1931, the Master's degree in 1934, and his Doctorate in 1938. He joined the Institute's staff as a research assistant in 1931, was appointed Assistant Professor in 1939, Associate Professor in 1941, and became Professor of Electrical Engineering in 1946.

Professor Brown is internationally known for his contributions in the field of servomechanisms. At the opening of World War II, Technology had the only university servomechanisms laboratory in the country, and Dr. Brown and his colleagues at once undertook a program of research for the armed services that contributed notably to successful operations against the enemy. Since the end of the war, the laboratory has been engaged in research of important industrial significance.

Heads Largest Department

The Department of Electrical Engineering, the largest in the Institute, has a registration of 902 students, of whom 302 are studying in the graduate school. In addition to its undergraduate and graduate educational program, the department carries on research which, on the basis of budget, is as comprehensive as the operations of industries with comparable personnel.

Thus, the administrative responsibilities of this single department are comparable to those of many small colleges. Its academic staff, including the junior grades of assistant and research assistant, totals 260 members, while the total personnel, including those of the Division of Industrial Cooperation under the immediate supervision of the department faculty, totals 750.

During the post-war peak, student enrollment in the Department of Electrical Engineering exceeded 1,200. Associated with Professor Hazen and Professor Brown is Professor Carlton E. Tucker, the department's Executive Officer.

Dorm Open House Rules Postponed To Later Date

Nicholas Melissas '52, Chairman of Dormitory Judicial Committee announced the revised dormitory rules, with the exception of open house provisions, Sunday night. The committee has postponed action on the open house problem until a later date.

The new rules provide that no objects of any kind may be kept on the window ledges, that no missiles of any kind shall be thrown from the windows, and that any tampering with the telephones or misuse of the phone service will result in disciplinary action by the Dormitory Judicial Committee.

The firing of fire-arms, the setting off of fire crackers, the using of chemicals to create a nuisance, all are again tabooed.

Pierre van Paassen To Speak On Future of Troubled World

U.S. Army Signal Corps Display Including WACS Will Come to Rockwell

Rockwell Cage will be the setting for an extensive exhibit by the U. S. Army Signal Corps on December 7, 8, 9, and 10, according to Lt. Col. James E. Foster of the Military Science Department. The exhibit will be accompanied by a staff of eleven WACs from the demonstration detachment.

Originally set up in the lobby of the Pentagon Building in Washington, D.C., the exhibit has been touring various colleges since the beginning of the academic year. The history of the Signal Corps and the role of communications and photography in warfare will be featured in the displays. Also included will be information on how Signal Corps equipment is designed and procured on meteorology, and on rocket instrumentation.

A thirty-minute tour through the exhibit, with the WACs acting as narrators will start every ten minutes. Up-to-date techniques will be demonstrated with the actual equipment, including a wired television hook-up and a number of animated sequences.

The WAC demonstrators, who travel with the exhibit, have all been hand-picked from the Signal Corps Headquarters at Fort Monmouth, New Jersey. They will relate the history of the Signal Corps from the Civil War, when it was founded by a surgeon who applied deaf-and-dumb sign-language techniques to warfare, to the current Korean action.

"However dark the immediate future, all is not lost. Humanity will live by the faith and the hope, the love and the suffering of a small number of men, who are to be found in all camps, dispersed through all parties and through all nations; the men who say, 'nevertheless, and in spite of everything, and whatever may come, I believe.'"

Five Riverside Men Join Dorm Committee

Representatives to the Dormitory Committee from the Riverside Dormitory were chosen in a special election held last Friday afternoon. Those elected were: Fred Zwerling '53, first floor; Robert F. Barnes '53, second floor; Howard S. Stern '53, third floor; Lewis W. Crump '52, fourth floor, and Jay F. Koogle '53, fifth floor.

The elections were originally scheduled for last Tuesday. When, at the end of the time for the petitions, there were only five candidates, and no candidate for the fourth floor, it was decided to extend the date of the acceptance of petitions until Thursday. In the interim between Tuesday and Thursday several new petitions were entered and the special election was held at noon on Friday.

WELDING AWARDS

Awards ranging from \$1000 to \$25 and totaling \$6750 are being offered by The James F. Lincoln Arc Welding Foundation to engineering undergraduates throughout the country. The awards will be based on the merits of papers written on different aspects of arc welding. Details can be obtained from A. F. Davis, James F. Lincoln Arc Welding Foundation, Cleveland, Ohio.

This quotation exemplifies the philosophy of its author Pierre van Paassen who is speaking here today, on the subject "There Is Still Time." Van Paassen's speech is the second lecture in the Lecture Series Committee Subscription Series.

His talk will be held at 5:00 p.m. in Room 10-250, and there will be a question period following the talk. Tickets will be on sale at the door; 50 cents for general admission and seventy-five cents for reserved seats.

What Does the Future Hold?

In his lecture van Paassen will speak on his views of the future, and what he thinks America's role should be. What he sees emerging is a "new kind of internationalism, a unification of mankind in mankind's own interests, the world over."

From 1925 to 1930, as chief correspondent for the N. Y. Evening World, Van Paassen covered almost every important political event in the world occurring at the time. From 1932 to 1935, while foreign correspondent for the Toronto Daily Star, he spent three years in Russia studying the Soviet political and economic system.

Political Refuge

Van Paassen is proud of the fact that he has been expelled from nearly every European country because of his condemnation of fascism.

Library Friends Run Prize Essay Contest Open To All Students

The Friends of the M.I.T. Library have organized a prize essay contest, open to all students at the Institute, in conjunction with an exhibition of fifty fine books, recently given to the Institute by the Peter Pauper Press of Mount Vernon, New York.

General theme of the contest is "the place of fine books in present day living." A specific title or subject may be selected from the fields of printing, book collecting, or the accumulation and use of a personal reading library.

First prize of \$15 and a second prize of \$10 both in money, or, at the option of the winners, the value in books selected from the catalogue of the Peter Pauper Press, will be awarded for the best papers received.

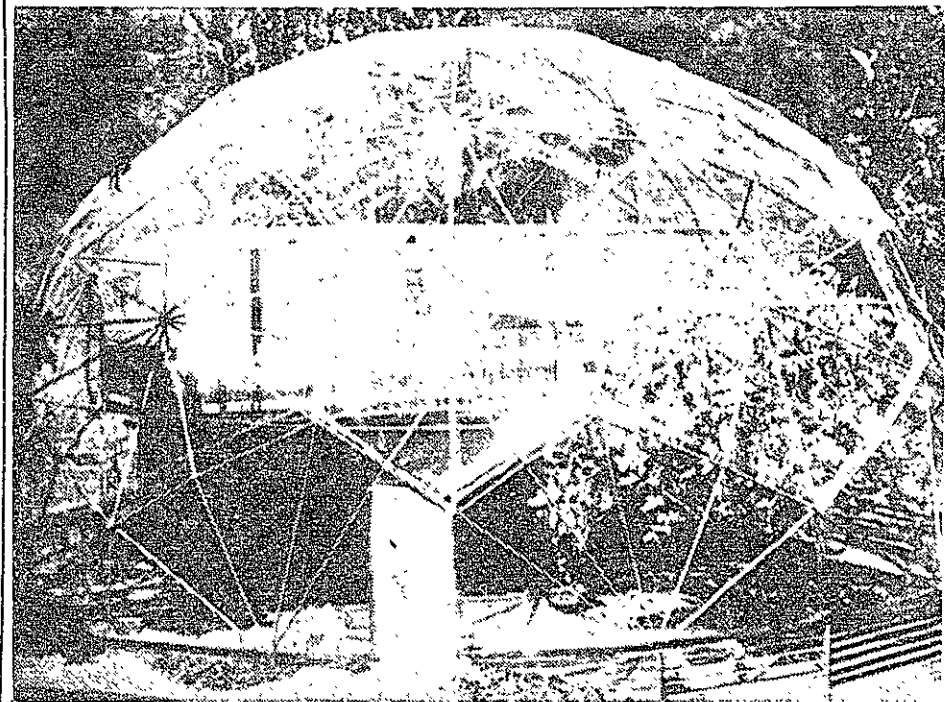
Deadline is December 15

Manuscripts will be accepted and read by the Department of English and History. Entries should be typed, double space, with the name and address of the author appearing on the title page, and may not be less than 1,000 or more than 2,500 words in length. All entries should be marked "Friends of the M.I.T. Library, Prize Essay Contest" and must be left at the English and History Department Headquarters, Building 14-N407 before 4:00 p.m., December 15, 1950. The winners will be announced before the Christmas recess.

The fifty Peter Pauper Books are on display in the wall exhibition case near the English and History

(Continued on Page 6)

Bucky Fuller To Design Proposed Hemisphere For Memorial Drive



This igloo-like structure is one of a number of aluminum space-enclosures built by R. Buckminster Fuller. Economy was the determining factor in its construction.

By ALYCE STAFF and BARBARA BEYER

Two weeks ago, R. Buckminster Fuller returned to the Institute to conduct a ten week series of seminars for the Department of Architecture. This is the fourth time in two years that Mr. Fuller has been here to conduct courses in experimental structures and energetic geometry.

While at the Institute, Mr. Fuller will construct a model of a proposed hemisphere to be erected on

Memorial Drive. The structure will have a 70-foot diameter and will weigh only 3,800 pounds since it will be made of aluminum. This structure, made of a grating of crossed bars forming a curved surface, is called a "three way grid geodesic structure" and will serve as a space enclosure.

Theory of Comprehensive Designing

Mr. Fuller's main interest in life

(Continued on Page 3)

Photo by Cohen

The Tech

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CALENDAR OF EVENTS

NOVEMBER 22 TO NOVEMBER 28, 1950

WEDNESDAY, NOVEMBER 22

Electrical Engineering Department. Colloquium: "Punched-Card Scientific Computation." Mr. Frank M. Verzuh, Room 6-120, 4:30 p.m. Refreshments will be served in Room 6-321 at 4:00 p.m.
 Catholic Club. "The Knights of Columbus: Reasons and Advantages of Membership." Mr. Joseph E. Boothroyd, State Auditor, Knights of Columbus. Short business meeting will follow. Room 1-190, 5:00 p.m.
 Hillel Society. Seminar: "Beginnings of Jewish Ideas." Rabbi Maurice L. Zigmond, Director, Harvard-M.I.T. Hillel Foundation. Crafts Lounge, 5:00 p.m.

THURSDAY, NOVEMBER 23

Thanksgiving Day. Holiday.

FRIDAY, NOVEMBER 24

*Biology Department. Applied Biophysics Seminar: "Air Flow Measurements in Human Respiration." Dr. J. Mead, Harvard School of Public Health, and Dr. Kurt S. Lion, M.I.T. Room 3-408, 4:00 p.m.
 Hillel Society. "Oneg Shabat." Dr. Lee Friedman, President, Jewish Historical Society of America. 5:15 Club Room, Walker Memorial, 8:00 p.m.

MONDAY, NOVEMBER 27

Electrical Engineering Department. Lecture. "Electronic Problems in the Design of an Electrocardiograph." Dr. Arthur Miller, Chief Electrical Engineer, Sanborn Company. Room 12-182, 11:00 a.m.

TUESDAY, NOVEMBER 28

Placement Bureau. "Your Future in Engineering and the Community." Mr. Donald S. Roberts, Technical Recruiting Division, General Electric Company. Room 10-250, 11:00 a.m. For February and June 1951 classes.
 Placement Bureau. "Your Future in Engineering and the Community." Mr. Donald S. Roberts, Technical Recruiting Division, General Electric Company. Room 10-250, 3:00 p.m. For February and June 1951 classes.
 Metallurgy Department. Colloquium: "Some Recent Work on the Theory of Creep in Metals." Professor N. F. Mott, University of Bristol, Bristol, England. Room 6-120, 4:00 p.m.
 Debating Society. Debate with Boston University. Room 5-104, 5:00 p.m.
 Institute of Aeronautical Sciences. Business Meeting. Talk and Movies on "Helicopter Construction and Job Opportunities." F. E. Mamrol, Jr. Room 1-190, 5:00 p.m.
 Christian Science Organization. Meeting: "Christian Science: A Definite Rule." Tyler Lounge, Walker Memorial, 5:15 p.m. All are welcome.
 Tech Model Railroad Club. Business Meeting. Room 20E-214, 5:15 p.m.

*The seminar in Applied Biophysics is held by the Department of Biology at M.I.T., in conjunction with various biological and medical departments in the Boston area. Its purpose is the report on, and the discussion of research work done in the borderland fields of Biology, Medicine and Physics; it deals in particular with modern physical research methods. The seminar is held every second and fourth Friday of the month, from 4:00 to 6:00 p.m. Everyone interested is invited to attend.

EXHIBITIONS

Lithographs of Toulouse-Lautrec will be on display in the New Gallery of the Charles Hayden Memorial Library until November 30.
 Photographic Salon prints by H. J. Ensenberger of Bloomington, Illinois, will be on display in the Photographic Service Gallery, Basement of Building 11, from November 20 to December 3.

CALENDAR OF EVENTS

The Calendar of Events is published weekly on Tuesday in THE TECH, and contains announcements for the following week. A separate listing of the Calendar of Events can be obtained for one dollar a year, payable in advance at Room 7-204.

Announcements, typewritten and signed, must be in the Office of the Editor, Room 7-204, not later than noon on Thursday, prior to publication date. Material for the Calendar, November 29 to December 5 is due Wednesday, November 22, as Thursday is a Holiday.

off the beat

By RICHARD J. POWELL

If my ends are not being cut, my beginnings are being sabotaged. Last week I was not cut, I was sabotaged! Unbelievable as it sounds, a proof-reader found and corrected a misspelling. In this instance, however, the misspelling, now two weeks old, was intentional. For those left confounded by last week's meaningless opening, I now repeat it, as intended:

Fortunately, the Juliard (sic!) String Quartet is an extremely exclusive and highly evasive group, one of their rare appearances being on page 6 of Mr. Schwann's September LP catalog. The Juliard (ibid!) Quartet will not honor us this Sunday, and it is with small consolation that the Juilliard (ahhhhh!) String Quartet will appear in their stead.

By any name, the four musicians appearing in Huntington Hall last Sunday afternoon were nothing short of terrific. Balancing staple Beethoven with impressionistic Ravel, the tastefully tailored program had a novel opening in Verdi's E minor Quartet. Verdi was thor-

oughly an opera composer, and, though sixteen strings do not provide operatic material, I expected the curtains of 10-150 to part, after each of the four movements. What music there was, was played with over-generous care.

Any musical deficiency in the Verdi Quartet, was amply made up for in Beethoven's Quartet Opus 59, No. 2 and Ravel's F major Quartet. The Juilliard Quartet presented each work with fresh enthusiasm, displaying at all times superlative artistry, both technically and tonally. Indeed, Messers. Mann, Koff, Hillyer, and Winograd form a quartet of which any country could well be proud.

For the next two weeks the Boston Symphony Orchestra will have as guest conductor Dr. Serge Koussevitzky, who in the spring of 1949 resigned as permanent musical director of the Boston Symphony, a post which he served for twenty-five distinguished years. Dr. Koussevitzky has chosen to perform Haydn's "Oxford" Symphony and the Seventh Symphony of Bruckner on the programs of this coming week end. There is a greater possibility of obtaining seats for the concerts this Friday and Saturday than there will be for the week after, the big demand for tickets to a "Koussy" concert being offset in part by Bruckner and in part by the turn back of tickets, espe-

(Continued on Page 3)



Sunday, Nov. 19

This is a fine situation! I am typing this column in total darkness, and for one, I'm darned glad I spent three weeks learning touch-typing. The lights in downtown Boston, which have just gone back on, are visible from my window, in sharp black-and-white contrast to the Cambridge side, which is experiencing a total blackout. At about 6:30 p.m., tonight, power throughout Boston and environs faltered and stopped, and has been out ever since except for the downtown area, which has just resumed functioning.

Flickering on the faces of the old dorms buildings is the reddish light of a bonfire, started soon after the lights went out, and supplemented by fireworks, the old familiar water-bombs, and exploding mixtures of sodium and water. You commuters don't know what you're missing. The fire department has been here as usual, and extinguished the first fire, but a second, bigger one was started as they left,—oh-oh! Even now I hear the clanging bell mingled with raucous shouts that means they are back, probably with the paddy-wagon. Last I saw, some guy was roasting marshmallows over the source of all the rumpus.

Officer Grady, who is accustomed to these outbursts says simply, "High school stuff!"

But outside Tech the blackout is one colossal misfortune. Cars lined bumper to bumper have been inching across Harvard Bridge, and telephone lines are being run on emergency battery units. Street lights are out, and people are carrying flashlights and lanterns. However three determined Bemis brownbaggers, not the least bit disturbed, placidly continued their studies by the light of a gas lamp.

The whole thing reminds me of a painfully recent subway breakdown, which occurred at the height of the rush hour, and was also due to an electricity failure. Boston Edison had better get on the ball. It's a sorry state when the failure of one peice of apparatus can cut the current of the entire Boston area to zero.

As for me, I just wish I had gotten a date for tonight!

If you have followed this column, you will be interested in the following note from Professor Francis W. Sears:

"You may be interested to learn that the Graduate House straddles the issue. For lunch the other day they had WELSH RABBIT."

By this time, I wish I'd never seen a Welsh rabbit. Make mine on rye!

And then again, maybe that student of elementary German had something when he translated "Heraus damit!" as, "To hell with it!"

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Local Union of B&P Employees Called Largest of Its Type in New England

By JOHN D'AMICO
Boasting three hundred members, the Technology section of Local 254 Building Service Employees Union has become, since its founding in 1946, the largest of some thirty affiliated union groups which have been organized in such institutions as Tufts, Radcliffe, Simmons, and Boston College. Though it does not include office or academic personnel, the group does represent a wide cross-section of Institute employees, including building and power workers, porters, janitors, electricians, and carpenters, to mention a few.

Affiliated with A.F. of L.
Chairman at the five annual section meetings of the Technology group is John Manning, and chief of operations for the two thousand members of the A. F. of L. affiliated local is Business Manager Joseph L. McCarthy, rated as one of the top union representatives in New England. Other prominent officials in

the local are President Edward Sullivan and Union Organizer Joseph P. O'Donnell, who is now studying labor relations on a scholarship at Harvard University.

Closed Shop Practiced
Typical of friendly union-Institute relations is an agreed stipulation that any non-union man hired must join the union within one month. Through union efforts,

Blackout

(Continued from Page 1)
tem had pulled out of step. By the time the Institute's generating station was ready to supply power, the situation was again in hand and Cambridge Electric was able to resume service. Edison's Mystic River and N. Weymouth plants increased their output to pick up the entire load.

The flashover itself took place on a load switching relay on the 110

Institute employees have gained both wage increases to meet higher living costs, and a decrease of the working-week from 44 hours to 40 hours. Union members at the Institute are now granted twelve days sick leave each year, and a welfare fund, supplemented by proceeds from an annual dance held in a downtown hotel, has been established by the union for the benefit of its needy members.

kv line at Pratt's Junction in the town of Sterling. This switching point lies between the Edison Woburn Station and Millberry, Main Load Dispatching point of the New England Electric System.

Fifteen Miles Falls, largest hydroelectric plant in the system, was only supplying 25% of its rated 160,000 kw and the other hydro plants were similarly operating at reduced power. As a result a larger portion of the state than usual was dependent on the Edison stations.

Techmen Better, State BU Murlin House Girls

By ED LEONARD
In an effort to find sources of females as yet untapped by the Technology student body, this writer and an assistant journeyed to Boston University's School of Practical Arts and Letters' Dormitory, Murlin House, under cover of a *The Tech* presscard. Two and a half hours later we had extracted the following information for six girls representing five different geographical locations, four different classes, and a thousand different opinions.

We were on the defensive from the start. "M.I.T. men are better—and they know it," the girls agreed. They also agreed that it was easier to get a blind date for an M.I.T. man than it was for a Boston University man. And fraternity parties? To a woman, the girls preferred Tech fraternities and fraternity parties.

To the query, "How forward do you think M.I.T. men are?" there were quick answers. They added up to "plenty." As one of the girls commented, "If he doesn't try to kiss you at least by the second date, you know something's wrong."

Girls Drink, Smoke Socially

Most of the girls to whom we spoke would drink. None of them, however drank unless on a date, and they didn't feel it necessary to drink when dating. In their estimation, a full ninety percent of the girls in the dormitory smoke. Several of the girls considered an evening at the Eliot Lounge a "special" evening. All of the girls drank more in Boston than they did at home.

The one hundred eight girls living in the house are about eighty cents worth of taxi from Walker Memorial and thirty to forty cents more taxi to downtown Boston. They have a particular aversion to movies, and a distinct preference for Walker Memorial's social affairs, Pritchett Lounge, and big M.I.T. dances. All said that they enjoyed an occasional play or symphony, but didn't expect such treatment regularly.

Freshmen Predominate

From a statistical viewpoint, we garnered the following facts: About ninety percent of the girls are from New England, and most of the

Ed. note: This is the first in a series of articles attempting to evaluate, comprehensively, and admittedly subjectively, the various girls' schools on a relative basis. To this end we submit the following cumulative ratings, analogous to the Technology system, for the girls of B.U.'s Murlin House:

Beauty	3.2
Intelligence	2.4
Party Attitude	4.5
General Compatibility	3.9
Over-all Blind Date	3.2

others are from the Middle Atlantic states. The dormitory is predominantly freshman, to the tune of about fifty percent, with the average freshman about seventeen and half years old.

Hours range with class as follows: Freshmen have 12:30 permissions on Saturdays, and 1:00 permissions on Fridays. Sophomores have 10:00 permissions on week nites, 11:00 on Sundays, 12:30 on Saturdays, and 1:00 on Fridays. In addition, Juniors and Seniors have flexible 12:30 and 1:30 permissions to be applied at their discretion throughout the term.

Fuller

(Continued from Page 1)

now is in establishing his theory of Comprehensive Designing which is a concept that embodies numerous specialized skills in a particular field. This theory is the key to all future development and is based on expansion in the scope of design. The need for this theory evolved from the increasing complexity of the world since 1917.

Explosive Proof Structure

In connection with Comprehensive Designing, Mr. Fuller has made notable achievements in the field of spherical structures. Spherical structures enclose the most volume using the least surface. They are practical, since strong forces, such as explosions, have no effect on them. This property makes them hurricane- and earthquake-proof.

off the beat

(Continued from Page 2)

cially of student tickets, due to the Thanksgiving week end.

The next time you lunch at Walker, bring along your roller skates, there might as well be some excuse for that organ, you will pardon the expression, music. And be sure to read next week's episode, "Mishap in the Middle."

CHRISTMAS SEALS

Tuberculosis is still the leading cause of death among those of college age. Community support is needed if the disease is ever to be wiped out.

You may be only a temporary resident of Cambridge, but your generosity in buying Christmas Seals is earnestly sought.

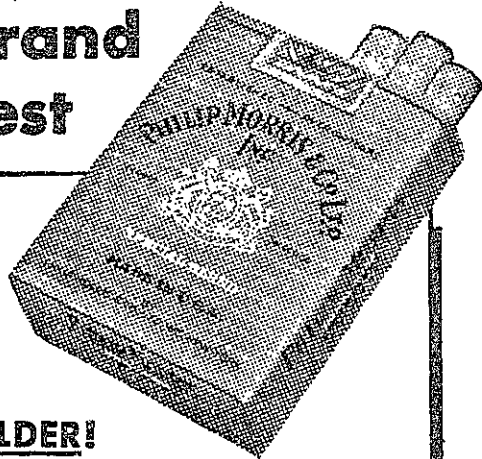
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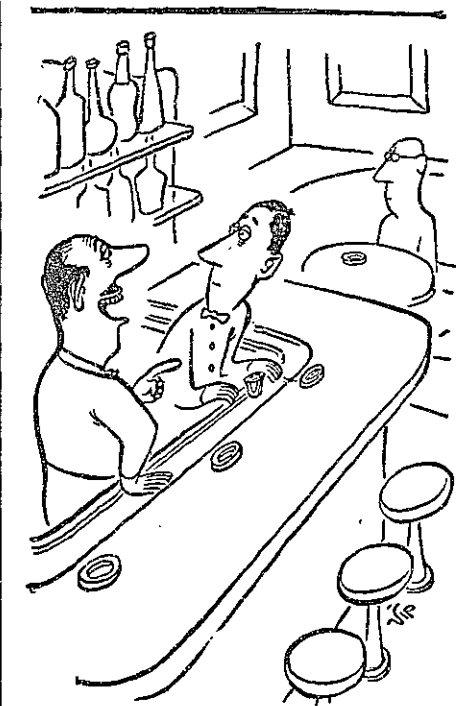
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Red Aggression In S. Korea Initiates Open Warfare

Editor's note: This is the last of a series of articles written especially for THE TECH by Professor Thomas H. D. Mahoney describing Korea and the part it has played in international relations since the close of World War II.

By PROFESSOR THOMAS H. D. MAHONEY
Department of History

On 15 August, 1948 the Government of the Republic of Korea was formally inaugurated, and the United States Military Government ended. Four months later the General Assembly replaced its temporary commission with the more powerful United Nations Commission on Korea which was instructed to work for the unification of the country. The Commission was further empowered to observe the withdrawal of both Russian and American occupational forces from Korea. The Russians again refused to cooperate and denied the Commissions the right to observe but did announce on 25 December 1948 that their forces had been completely withdrawn. This claim proved substantially correct except that a rather large military mission had remained to train the North Koreans. The American withdrawal, which had already begun and which was subject to UN observers, was completed 29 June 1949 except for 500 officers and men of the United States Military Advisory Group.

One year later, almost to the day, American military forces returned to Korea under somewhat different circumstances to participate in fighting an aggressor whose depredations were to cost the United States over 20,000 casualties at the time this is being written with reports still adding to the list. The Americans returned to resist a vicious attack on the basic principles of the UN Charter and on the steps taken by the United Nations in Korea up to that time. As President Truman declared in his message to Congress on 19 July 1950: "If this challenge had not been met squarely, the effectiveness of the United Nations would have been all but ended, and the hope of mankind that the United Nations would develop into an institution of world order would have been shattered."

The significance of the communist aggression lies in the fact that for the first time the leaders of world communism resorted to open warfare in the Cold War in an effort to realize their goals. Failure to respond by meeting force with force would only have been the signal for other acts of aggression to be committed elsewhere. By acting as it has, the free world has wrested the initiative away from those bent on the destruction of freedom everywhere. They are now on the defensive for the first time and obviously they are most unhappy about the change which has taken place.

Now that the North Korean Army has been crippled, although further sanguinary days are in prospect now that the Chinese Reds have entered the conflict, the free world, and especially the United States, faces another serious problem in the manner in which reconstruction in Korea is handled. But if the same courage and resoluteness is maintained in tackling these problems as was demonstrated in the fighting, where a high degree of cooperation was achieved, we may feel confident that Korea will be back on its feet and completely free for the first time in over a generation.

Beaver Rugby Team Ends Season With 6-3 Victory Over McGill

An enthusiastic crowd of spectators came out yesterday to watch the Beavers beat McGill University on Briggs Field 6 to 3 in the last rugby game of the season. It was McGill's first loss of the season.

Tech scored when early in the first half Hoffman converted a penalty against the Canadians to make an easy three points.

There was no further score in the first half of the game, but McGill, although playing with the wind, were hard pressed by the Tech forwards. Much of the game was played within reach of the Canadians try line, but dogged defense foiled the Beaver attack. Thys broke through once and almost scored.

Beavers Move

Some of the best play was witnessed in the first half when a long run by Munck and Davidson, and then a pass from Laxen to Franklin took the Beavers right down the field. Finally a beautiful drop kick by Alan Munck just failed to clear the posts.

The second half was marked only by hard forward play. Both packs were visibly flagged after a 40-minute first half, but still game. It was McGill's turn to attack and during one sortie on the Beaver 25-yard line, Kent took possession of a kick from Zimmerman, McGill centre, and scored the first touchdown of the game. Kelicher for McGill failed to convert making the score 3 all.

SWIM SCHEDULE

Amherst College will provide the season-opening competition for the varsity M.I.T. mermen this coming December 2. The full varsity schedule is:

December 2	Amherst	here
December 9	Brown	there
December 16	Wesleyan	here
January 12	U. of Conn.	there
January 13	Trinity	there
February 17	Rensselaer	here
February 21	Tufts	here
February 24	Worcester	there
February 25	Boston U.	there
March 3	Bowdoin	there

The freshman schedule is as follows:

December 9	Brown	there
January 13	Exeter	here
January 17	Brookline High	here
February 17	Moses Brown	here
February 24	Dean Academy	here
February 28	Gardner High	here
March 3	Boston U. & Tufts	Tufts

'51 Wins Swim Meet

Relying on experience, the senior class aquamen captured the first interclass meet of the season with 48 points to 47 for the freshmen last Saturday afternoon. The juniors followed close behind in the tight race with 46 points while the sophomores garnered 30 points.

The Tech forwards made a determined attempt to score again and there was notable play by the loose forwards, Smead, Lyons and Dyke.

With only 10 minutes of playing time left, Hoffman converted another penalty from the McGill 25-yard line and since there was no further score, Tech won their first game by 6 to 3 count.

Thus the Tech rugby squad breaks even on this year's games, with draws against Harvard and Wesmaunt—a defeat and a win against McGill.

Class Of '53 Skippers Victorious By 19 Points In Soph-Frosh Regatta

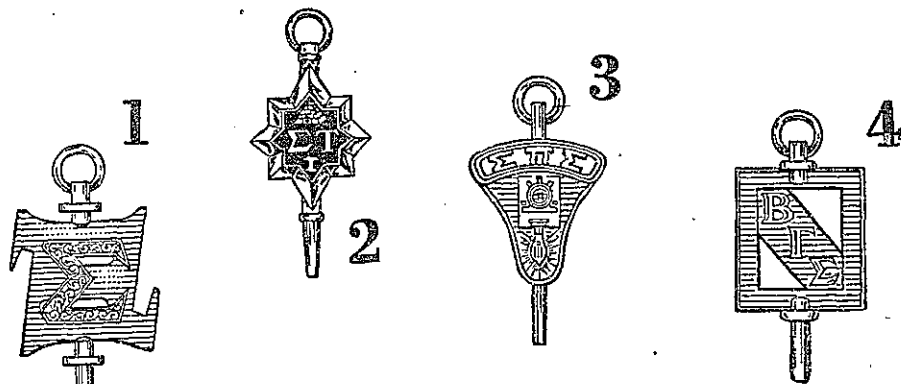
In a six-boat interclass regatta held at the sailing pavilion last Saturday, the Sophs topped the Class of '54 by a nineteen point edge, winning handily 139-120. A strong but gusty wind, with occasional calms, added to the excitement, but no capsizings or breakdowns occurred. Disqualifications due, for the most part, to the special team racing rules cost both sides heavily.

The Sophs swept the field, not only on totals, but on the results of the individual races as well, taking first place in each of the three contests. The men of '53 took the first race by a score of 44 to 38, as protests cost both teams points. In the second race, the first boat in was from the frosh contingent, but a disqualification gave this race to the Sophomores too. In the third attempt, the Sophs swamped the frosh, who were badly hurt by disqualifications, by a 50-38 score.

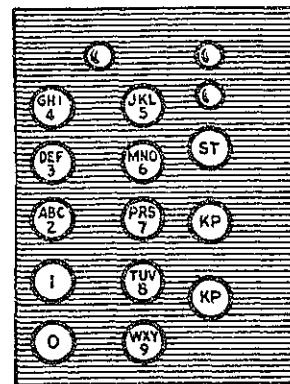
Melaika High Man

High point man for the entire regatta was the Sophomore captain, Edward Melaika, with a score of 31 points. Close behind was Sophomore Jake Kerwin with 30 and Dave Stern with 29. Other Sophomore skippers were Gene Romer, Herb Brun, and Adam Bincer.

Freshman captain, Pete Felsenthal, shared high point honors for his squad with teammate Klem, each totaling a score of 25 points. Other frosh skippers were Almqvist, Lundquist, Rieman and Robertson.



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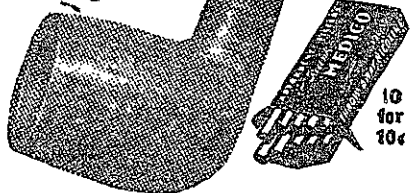
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Techsapoppin Match Initiates Big Season For Tech Rifle Team

On December 2nd, the Technology Varsity Rifle team will open its intercollegiate season against Harvard as part of the Techsapoppin' Week-end. This match will launch the riflemen on what should be their biggest and best season in the history of the team at Tech. Following this contest, the Engineers will meet BU at home on the 9th, and Coast Guard at New London on the 16th. After Christmas, competition will start in earnest with a long southern tour during the mid-term vacation. During this trip, such schools as the University of Maryland, Fordham, Columbia, George Washington, N.Y.U. and Rutgers will be met.

After the southern sweep the team will return to fire against the Military Academy at West Point and many of the schools in the New England Collegiate Rifle League. To climax the season, several championship matches will be entered. Among these will be the Metropolitan District Championship Match in New York, where Tech will be

the defending champion since the Beavers defeated a field of 36 teams last year. After this match will come the all important Intercollegiates.

Returning Vets

A very strong squad, captained by National Individual Champion Herb Voelcker, is expected to break many of the records which they set last year. Also returning from last year are such outstanding marksmen as All-Americans Allan Tanner and Mel Bowers (a transfer student from the University of Maryland), "Lightnin' Dud" Hartung, John Champeny, Sarkis Zartarian and Arthur Auer. The addition of Gene McCoy and Mike Dyer from last year's freshman team should further strengthen the squad. In the practice shoulder-to-shoulder matches fired against teams in the Boston City League, the impressive performance has caused veteran coach Jim Brahe to be even more optimistic than ever about his "Boys."

First Of Interclass Track Meets Goes To '54 Cindermen

Last Saturday afternoon the class of '54 won the first of this year's three Interclass track meets. The freshmen rang up 62½ points to win, with the class of '53 second with 48½, '52 third with 44, and '51 last with 18 points.

The number of participants was cut down by a rainstorm in the morning and by the absence of the varsity, and many of the freshmen cross-country men, who ran yesterday at the I.C.A.A. championship meet in New York. The freshmen took full advantage of these conditions to build up a good lead over the Sophomores.

High scorer for the meet was George Thompson, who scored all 18 of the seniors' points. Hugh Nutley was second with 14 points. Double winners included Nutley in the mile and the half-mile, John Allen in the 100- and 220-yard dashes, and Rothberg in the Discus and Hammer throws.

Theta Chi, Grad House Victors As Intramurals End In Three Way Tie

In a surprise victory Sunday, the Theta Chi intramural football team dropped the New Dorm team from the ranks of the unbeaten, and threw the race for top billing into a three-way tie. The Theta Chi's slight edge in passing was enough to turn the tide to a 12-6 victory. Meanwhile the

Grad House warriors rolled over the Sigma Alpha Epsilon gridmen, 19-0, to grab the third spot of the deadlock.

In the Theta Chi-New Dorm A tilt, both teams seemed evenly matched, giving each other a tough fight clear along the line. But the breaks seemed to favor the Theta Chis, and gave them the extra touchdown.

The Theta Chis drew first blood in the first quarter with a pass into the end zone. Not to be outdone, the New Dorm men crossed the goal line in the second half with a short pass, and the game stood at 6-all. Then in the fourth quarter, a New Dorm fumble gave the Theta Chis the ball on the 30-yard line. A pass down to the two and a line plunge gave them their second touchdown, and the game as well.

Grad Wins Easily

In the Grad House-SAE game, the passing power of the grads completely tore the SAE's defense open. Their first touchdown came within the first two minutes of the game, and their control was never threatened. Another t.d. in the last of the second quarter boosted the lead, and one in the last of the third quarter, along with the extra point gave the grads the game in a walk.

Usual provisions for assigning points toward the Beaver Key Trophy will not apply, announced George Butzow '51, intramural football chairman. Instead of the 50-40-30-20 sequence given to the top four teams, the three winners in

Intramural Basketball Season Commences; 42 Teams Competing

Last week the Intramural Basketball Tournament got off to a fine start with 42 teams entered this year. The teams are divided into six leagues which play all their games at either Walker or the Armory.

In league one, Phi Kappa Sigma, last year's winners, defeated Delta Tau Delta 21 to 10, Delta Kappa Epsilon overcame Kappa Sigma 20 to 7, and Alpha Club defeated the D.U.'s, in a hard fought battle 18 to 17. In league two, Theta Chi, last year's winners conquered Theta Delta Chi 17 to 13, Phi Mu Delta defeated Psi 14 to 10, and Phi Delta Theta routed the Lenox Club 22 to 15.

In league three, tops in their league last year, Sigma Nu, won a close one from the New Dorms "A" 28 to 26, Sigma Chi defeated Beta Theta Pi 21 to 17, and Walker won from Bemis-Hayden by default. In league four last year's winners, the Grad House, defeated Sigma Alpha Mu 32 to 23, Alpha Tau Omega overcame Theta Xi 14 to 10, and Dorclan defeated Westgate 27 to 25.

In league five, Pi Lambda Phi, also league winners, overcame Riverside by 26 to 8. Sigma Alpha Epsilon defeated the Student House 25 to 22, Phi Gamma Delta defeated

(Continued on Page 6)

(Continued on Page 6)

Campus Interviews on Cigarette Tests Number 7...THE RAVEN



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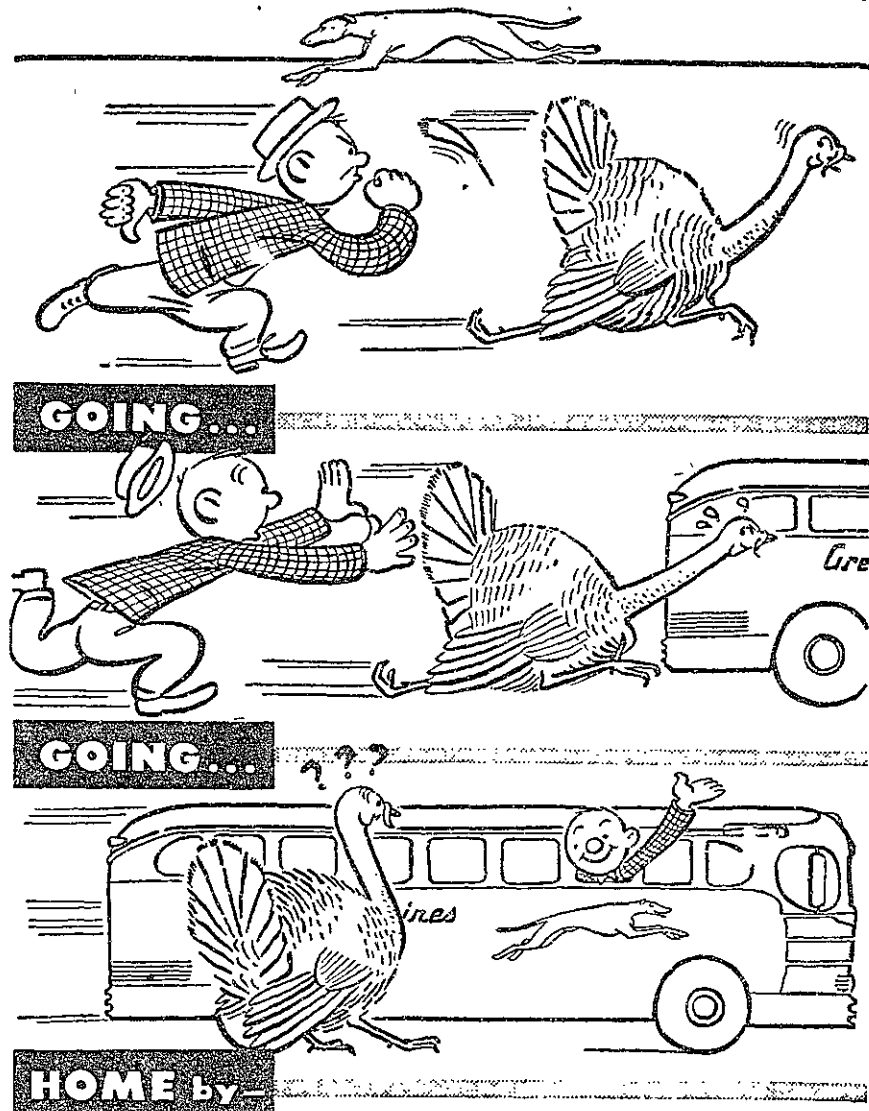
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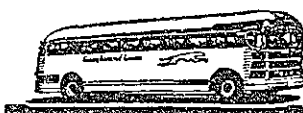
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Air Explorers Group Formed At Institute For Cambridge Lads

Last Friday marked the initial meeting of the Air Explorers, a newly formed Cambridge boys' group. As the name implies, the primary interest of the group is aeronautical. Members of the Air Explorers are drawn from air-minded Cambridge lads between the ages of fourteen and seventeen.

When the late Dean Baker was approached last spring with the idea of the formation of such an organization he approved wholeheartedly and offered any assistance the Institute might give. But because the term was just about over, nothing much could be accomplished.

Assistant Dean of Students Thomas L. Hilton, also favorably impressed, offered assistance and has given the Explorers use of the facilities in the Institute's Aeronautical Department. Professor Holt Ashley is the present chairman of the Squadron Committee, which determines policy and future activities.

Use Institute Facilities

Activities of the group are designed to fill the need for supplementing the high school along aeronautical lines. Opportunities to receive instruction in general aeronautics, meteorology, navigation, and many other phases of air training are open to the boys. They enjoy use of a wind tunnel and have full cooperation of the Air Force. The latter provides films

and the use of summer camps.

Alpha Phi Omega, honorary scouting fraternity, supplies any assistance that may be required. Most of this work is done by Henry R. Jex '51, Donald Reis '51, and Robert Lange, who help the scout advisor. The first activity of the group was a tour of the Institute Department of Aeronautical Engineering. Although there is some opportunity to do actual flying at the summer camps, stress is placed on fundamentals for the most part.

Growing Organization

Starting with the present group of ten, the originators of the plan hope that interest will increase and that the number of Air Explorers increases. As the boys gain more and more experience, they progress through the ranks. In this manner the organization hopes to become self-perpetuating, providing Cambridge boys not only with technical instruction, but also with an opportunity to achieve leadership ability.

Grad School, Freshmen Registrations Increase

Registration figures for the opening of the academic year at the Institute showed a total registration of 5149. This year's freshman class, with a total of 792, had increased 44 over last year, and the graduate school, with a total of 1,641, had an increase of 78 students.

The department of electrical engineering, with a total of 163, had the largest group of freshmen, with mechanical engineering following with a total of 109. Chemical engineering had 102 first year students, and physics followed with 97.

CLASSIFIEDS

For sale—One maroon corduroy jacket, size 30-38, like new. Call Newell Trask, Riverside, Room 311B after 8:00 p.m.

Lost—One gold tie clip somewhere between Baker House and Alumni Pool bleachers. Contact James Michelman, Box 62, Baker House.

Essay

(Continued from Page 1)

Library, in two floor cases on the East corridor outside the Exhibition Gallery and on open shelves in the Central Library near the main circulation desk.

Recreational Reading Collection

To them have been added other Peter Pauper titles purchased for the Tubby Rogers Collection for recreational reading which will shortly be ready. All those interested are urged to inspect the collection.

In order to assist potential contestants, the rules for the Prize Essay Contest have been reproduced separately with suggested essay subjects and titles of reference books in the Library. Copies of this sheet may be secured from the English and History Department Headquarters or from the main circulation desk in the Central Library.

Football

(Continued from Page 5)

this case will be awarded 40 points apiece, with fourth place Sigma Alpha Epsilon receiving the usual 20 points.

Basketball

(Continued from Page 5)

Phi Kappa 19 to 13, and Phi Beta Epsilon handed Riverside its second defeat 20 to 18. In league six, Phi Sigma Kappa, who took their league last year, got off to a good start by winning their first game 23 to 8 from Chi Phi, but they dropped their second game to the Senior House 21 to 23. The Pegis Club racked up the biggest score of the week in overcoming Lambda Chi Alpha 34 to 25, the Pegis Club also won their second game against Chi Phi 21 to 15. Riverside Staff dropped two games, one to Goodale-Walcot 30 to 20, and the other one to Lambda Chi Alpha 22 to 21.

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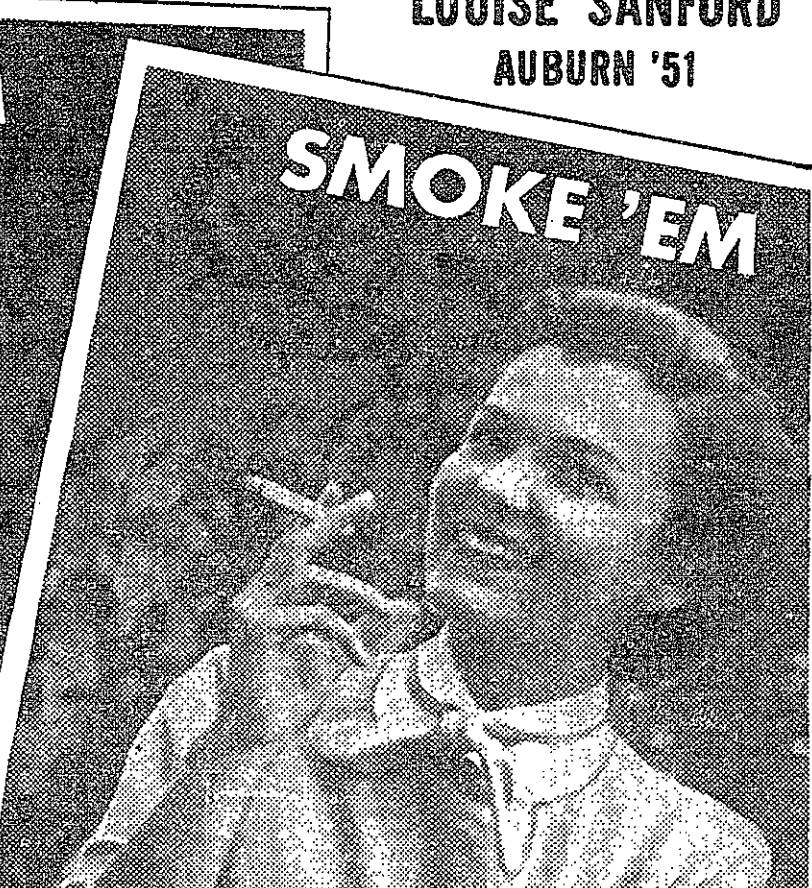
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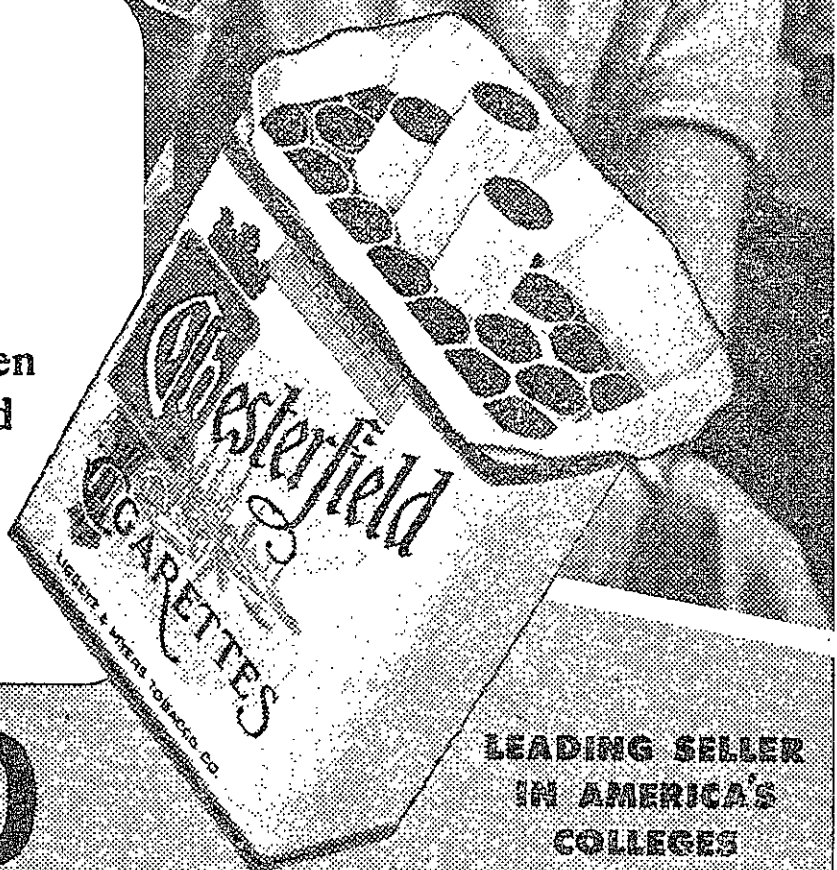


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