

Tech Union Hears "G-Man" Talk On Crime Detection

"The Scientist and Crime" Is Subject Of Lecture By Investigator

Lie Detector, Photography, Weapons Against Criminals

Students, Faculty, Invited To Inspect Laboratories In Washington

"The Scientist and Crime" was the subject of a lecture given by Mr. E. P. Coffey, Chief of the Technical Laboratory of the Federal Bureau of Investigation, presented under the auspices of the Tech Union last Tuesday evening in Room 10-250.

Mr. Coffey, an assistant to J. Edgar Hoover, head of the government Department of Justice, spoke on the organization of the Bureau, and described the methods of attacking a case, stressing particularly the need for co-operation between government and local officials.

Methods of Investigation
The Technical Bureau, according to Mr. Coffey, is still in its early stages, but is progressing rapidly through the aid of scientific research. It already has a staff of eighteen, in Washington, and is being expanded over the country to help state and city officials in the solution of crimes.

Mr. Coffey talked at length on the methods employed by the scientific "G-Men". He discussed such de-

(Continued on Page 4)

Tech Union

Ten Outstanding Men Initiated On Saturday By Alpha Chi Sigma

Scholarship, Personality Are Main Factors In Choice Of Initiates

Alpha Chi Sigma, the honorary professional chemical fraternity held its semi-annual initiation last Saturday afternoon. The initiates are Andre Hubert Brisse, '36; Louis Frederick DuBois, '37; Wendel Keister Fitch, '36; David Fulton, '37; Charles Robert Milofie, '36; Roman Leo Ortynsky, '36; Mitchell Andrew Sieminski, '36; Walter Squires, Jr., '36; Paul Andrew Vogel, '37; James Warburton, Jr., '37. The formal initiation on Saturday was preceded by an informal initiation which took place Thursday.

The men initiated are chosen from the chemical engineering course on

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Alpha Chi Sigma

THE TECH Inquires

This column endeavors to solicit student opinion on questions of timely interest. Persons are chosen at random and interviewed by a reporter. Questions for this column may be submitted by readers. Open Forum comment on any question or the answers thereto will be welcomed.

QUESTION: "The Institute will not grant a degree to Kenneth J. Arnold, '36, who refused to take the compulsory R.O.T.C. Do you think this course of action is justified?"

Andrew Stergion, '38, XVIII, Dormitories.

"The Institute is justified. One of the rules of the Institute is that a course in R.O.T.C. is necessary for graduation, thus compelling him to take the course. I wonder what the reaction would be if all of us decided not to take a certain subject, like Physics, for instance."

G-MAN



E. P. Coffey

Debating Society Is Allotted \$150

Institute Committee Approves Creditable Showing Of Organization

One hundred and fifty dollars was allotted to the Debating Society at the Institute Committee meeting Thursday evening, to be used at the discretion of the Budget Committee. Twenty-two debates have already been scheduled for this school year, and because of the creditable showing of the Debating Society up to now, the Committee deemed it proper to make the award. The Society has no source of revenue.

In regard to the question as to whether the Institute should send a

(Continued on Page 3)

Institute Committee

Course II Men Hear Prominent Engineer

Luis deFlorez Addresses Group In New Talk Series

Mr. Luis deFlorez, a prominent consulting engineer of New York City, gave the first of a series of talks on Tuesday, December 17, to the Sophomores of Course II.

These talks with eminent practicing engineers as speakers, form a portion of the Student Counsel Plan which has been instituted in Course II. Their purpose is to aid the student in planning his educational development along paths other than the purely technical, and to assist the student in recognizing the value of developing a personality that will

(Continued on Page 3)

Luis deFlorez

Richard V. Gaines, '39, III, 403 Memorial Drive, Cambridge.

"I do not think the Institute is justified. After all, almost every good technological school requires R.O.T.C., and whether or not a man is in sympathy with the movement he has no choice. When war is declared, he is among the first to be sent to the front. This is the same as saying, if you come to M.I.T. you must be willing to support and assist in war."

Vincent J. Dobrochowski, '36, I, Dormitories.

"It has been the course followed by the Institute for many years. Why should they change it for one person who doesn't recognize the benefits derived from R.O.T.C.?"

Robert Treat, Jr., '38, X Dormitories.

"Theoretically the action is justified because M.S. is a required study in this school. But since the Constitution of the United States supposedly grants life, liberty, and property to its citizens, no student should be forced against his will to study R.O.T.C., as it is not a necessary course for a potential engineer."

Students Routed From Lecture By Tear Gas Bomb

Military Science Class Fled From 5-330 Yesterday Morning

Gas Masks Prove Effective

Shortly after 10 o'clock yesterday morning an MS-21 chemical warfare class was thrown into temporary confusion when a tear gas bomb exploded on the floor in front of the class. Major T. J. Johnston, in charge of the class at the time, gave the following account of the incident in a personal interview with The Tech.

December 19, 1935.

"At 10:05 A.M. on this date, as I was about to commence my last lecture in Room 5-330, on the subject of "Defense Against Chemical Warfare" in MS-21, a tear gas (lachrymator) hand grenade was ignited in the room.

It is evident that the grenade was tossed into the room through the doorway after the safety pin was pulled. I was writing on the blackboard at the time. I heard the hissing sound of the escaping gas and as I turned about, it appeared that the grenade had come from the front row of students, as it was rolling toward the doorway. Instead, it had probably struck the radiator after being tossed through the doorway.

The class was affected by the tear gas and everyone left the

(Continued on Page 4)

Tear Gas

Lowell Institute To Give Two Series Of Lectures In January

An English Scientist And A Columbia Professor Will Speak

Philosophy and Japan will be the topics for two new series of lectures to be given by the Lowell Institute, starting in January. The lectures are given at 5 o'clock and 8 o'clock in the evening, on Mondays, Wednesdays, or Fridays.

"Through Science to Philosophy" will be the subject of the series given by Herbert Dingle, assistant Professor of Astrophysics at the Imperial College of Science and Technology, in South Kensington, London, England. This series consists of ten lectures, and will run at 8 o'clock every Monday, Wednesday, and Friday from January 3 to January 24.

"The Historical Background of Modern Japan" is to be the subject for Sir George Sanson, in his lectures.

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Lowell Institute

At A Glance The Heart of the News

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NOTICE

The next issue of The Tech will be published on Friday, January the 3rd.

Voo Doo Fined For Failure To Observe Calendar Rules

Prohibiting the use of the Institute corridors and bulletin boards by the Voo Doo until the organization pays a fine of one dollar, the Walker Memorial Committee yesterday punished the comic magazine for failure to observe the calendar sign-ups kept by that committee.

Trouble was precipitated when Voo Doo went on sale last Wednesday, the same day that the T.E.N. had reserved with the Walker Memorial Committee. It was pointed out by T.E.N. to the committee that Voo Doo was fully aware that the day had been reserved by the engineering monthly for its sales, and was therefore liable to punishment. The Walker Memorial Committee imposed the fine to emphasize its jurisdiction over Walker Memorial and the Technology bulletin boards and corridors.

Beaver Booters Elect Captain

Ed Brittenham Chosen To Lead 1936 Team; Wu Receives Varsity Medal

Ed Brittenham, '37, of Chicago, was elected captain of the 1936 Soccer team at the annual banquet held Wednesday night in the Silver Room of Walker. He succeeds Jack Hamilton, '36, of Bridgeport, Conn. At the same time Billy Wu, '36, was voted recipient of the coveted Varsity Club medal which is given each year to the outstanding man in each sport. This is the first one awarded in Soccer

(Continued on Page 3)

Ed Brittenham

Six More Dinghies Are Added To Fleet

The "Frostbite" Fleet Now Has A Total Of Sixteen Boats

Six more dinghies have been recently added to Technology's rapidly growing fleet, making sixteen in all. The additional dinghies were donated by J. Howard Pew, '03, president of the Sun Oil Company; Francis C. Holmes, '92, treasurer of the Plymouth Cordage Company; Philip Stockton, '99, president of the First National Bank of Boston; Frederick T. Moses, '07, president of the Fireman's Mutual Insurance Company; Richard L. Bowditch, '23, president of T. H. Sprague and Son, Inc.; and Arthur C. Dorrance, '14, president of Campbell Soup Company.

Commuters Make Merry At 5:15's New Year's Dance

Large Crowd Is Expected To Usher In New Year At Cabaret Formal

Entertainment Kept Secret; Price Is \$3.50 Per Couple

Only Technology Students May Attend; \$1.00 Deposit Set For Tickets

The New Year will be ushered in at Technology by the 5:15 Club at a New Year's Eve party to be held from 10 to 4 o'clock in the Main Hall of Walker Memorial. The dance will be cabaret style, formal or masquerade.

Dinner included along with entertainments in the admission price of \$3.50 per couple, will be served at 12:30. Tom Anderson's Yankee Network orchestra is featured, and entertainments are planned, the details of which are being kept secret.

Tickets In Information Office

Tickets will be on sale in the Main Lobby for the rest of this week. Reservations for tables may be made at the same time that tickets are bought. During Christmas week, reservations may be made through the Information Office; any tickets remaining will be sold at the door.

The New Year's Eve party, which is an annual feature of the Commuter's Club, has been one of its most popular activities. In order to help students who are temporarily short

(Continued on Page 3)

5:15 Dance

Glider Purchased By Aeronautical Group For Spring Training

Funds Raised By Subscription Among A.E.S. Members For New Ship

A new glider of the Franklin Utility type was recently purchased by the Technology Aeronautical Engineering Society, and paid for by subscriptions from the members of the organizations. It is an integral part of their training and competing plans for next spring.

The ship, a rebuilt model, has an historic background. It was one of the two gliders flown from Miami to Cuba by Paul DuPont and Jack O'Meara in the first international sky train. Last year the ship was entered in a national contest at Elmira by Bowlus-DuPont. Stephen Dupont,

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Glider

Student Disclosed As Secret Agent Of OGPU; Throws Bomb Into Class

SECRET AGENT



(Ogpu photo) Vestibuleovitch

Henry Cargen, Jr., '36, General Manager of Voo Doo, and Russian Secret Agent, fastigated the bomb throwing in the midst of a Military Science class yesterday, it was learned last night from extremely secret sources.

For the past four years Cargen has been pursuing his nefarious course shrouded in mystery. Facts were substantiated by a photograph taken from the files of the OGPU, Soviet Secret Police, and smuggled into this country with the utmost difficulty. The photograph appears elsewhere in this issue.

Really Vestibuleovitch

Cargen's real name, it was also learned, is Serge Marmaladeski P. Vestibuleovitch, but for obvious reasons this was shortened to "Cargen" when he entered the Institute. Agent No. 0.01, General Manager Cargen, to many of his American acquaint-

(Continued on Page 3)

Henry Cargen, Jr.



Vol. LV DECEMBER 20, 1935 No. 54

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

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FOLLIES OF 1935

1939 AS STOOGE

FROM time to time, the Institute Committee, which rivals the American Congress for its illogical acts, has perpetrated particular follies with respect to the student body. Its latest coup in this direction has been the awarding to the Beaver Key Society of a profit of seventy-five dollars realized in the sale of ties to the freshman Class.

We are given to understand, without much conviction on the part of the givers, that the funds are needed for the pursuance of its duties of that half-Texas Guinan, half-Rip Van Winkle body known as the Beaver Key Society. But granting even that the money is actually required by the society, it is not explained why funds obtained from the members of the freshman Class should be used in this connection. Perhaps this is another way of completing that job which the Freshman Rules Committee has never adequately completed, namely making the entering class feel that it has actually become a part of the Institute student body.

At another time this might be designated as a misappropriation of public funds, but with this august body seemingly a law unto itself, such a possibility is indeed remote.

The Beaver Key Society, we are told, among other things, has the duty of entertaining visiting athletic teams. The entertainment at times includes dances, which are, unlike many Technology dances, run at an inexplicable financial loss; hence the subsidy of seventy-five dollars, contributed unwittingly by the Class of 1939.

Among the many questions that flash to mind is first, why should the dances when run, not be financially successful? Of course, there are undoubtedly substantial reasons for this, since no query has ever been made.

And the second question is, granting that it is necessary to entertain our guests, even at a financial loss, why should the freshman Class be singled out as the goat to meet the expense?

Undoubtedly the Institute Committee, which is, in its turn, half-Sphinx, half-Rip Van Winkle, keeps the answers locked tightly in its secret files.

MASS PRODUCTION

A DEGREE FOR EVERYONE

THAT a college degree is now of little value because of the great number which are being handed out every year, was the recent declaration of Dean Carl W. Ackerman of the Columbia Graduate School of Journalism. Statements of this kind have lately been given much publicity and have generally been received with amazement by the general public.

The reason for the amazement is revealed when we hear it deplored by many that after years of continued attempts by the American people to make elementary education universal, education is coming to be of lesser and lesser value to those who acquire it. Herein lies the error causing the consternation: education is being confused with training.

In the past, when men went to college to become educated, a degree was an indication that those receiving them had in fact become educated. But colleges have since added courses to their curricula which are aimed at the training of the hands and mind to perform specific tasks and thus to increase a man's money earning power. There are even

schools at the present time which offer these courses to the exclusion of those in social science and the arts. Thus the college degree is no longer an indication of the graduate's education but rather of the degree and kind of training that he has had.

Nor is this change in the meaning of a college degree to be deplored. There are men and women for whom education through a college degree is not possible. However, they need not be illiterate nor need they be handicapped in modern industrial society because of lack of training needed to earn their bread. There are as many educated men today as there ever were, and as ever it is the best educated who have developed a greater appreciation of life and a knowledge of the elements of happiness. He may or may not be the man who attains worldly success because he may not desire it. It is true that the college degree does not prove him to be educated; however there are other means of determining that.

It must be admitted that there are at present thousands of degrees given to men who are not able to get jobs. But this state of affairs cannot be used as evidence against our educational system. Men may become educated or they may become trained according to their natural capabilities and according to their desires. Simply because men get the erroneous idea that a college degree will guarantee them jobs is not the fault of the educational facilities nor of our social system.

HEAVEN WILL PROTECT
THE CRADLE OF LIBERTY

WE learn with great inner satisfaction that Bostonians will be spared the ghastly experience of seeing "The Children's Hour", that incredibly vicious play, which, it is rumored, actually dares to present likely human situations on the stage, and which has been running in New York for many months.

It may not be amiss to recall at this point how fortunate Bostonians are in having such provident city fathers who on many previous occasions managed to prevent the worst: "Strange Interlude", written by the unspeakably vulgar and unimportant Mr. O'Neill; "Within the Gates" by the highly immoral and equally highly undesirable alien Sean O'Casey (we demand immediate deportation of all such individuals and of others who may have an idea or two!) were all turned away in the nick of time and before they could do any permanent harm to the pure soul of the native adult. Why, only recently Clifford Odet's ultra red play "Waiting for Lefty" which was given here had to be thoroughly purified of such terroristic expressions like "damned". The artistically sensitive ears of a true Bostonian should not be forced to hear anything more shocking than "oh apple-sauce", even if the lines belong to the herocab driver.

Of course, this tremendous influx of dangerous plays which are being foisted upon an unsuspecting public has compelled the distinguished city fathers to work overtime and consequently did not leave them any time to deal with burlesque shows, Sally Rand, or "Spicy Detective Stories". Furthermore, the latter works of art are by no means as objectionable since none of them contain an idea in a carload; after all, what is a little outright filth as long as it does not make one think compared with the effects of a wicked display of human conflicts?

No wonder Bostonians go happily about tasks knowing full well that even when they slumber the censor sleepeth not; and while other cities, like the working girl are dependent on heaven for protection, Boston need not fear; if heaven won't—the censor will.

With The American
College Editor

That Typical Radcliffe Girl

"So you're at Radcliffe! Why, you don't look like a Radcliffe girl." You think the remark rather stupid. Of course you don't look like a Radcliffe girl. How can any one person be marked as typical of the heterogeneous group found in any college? Yet still there is a sad illusion abroad about Radcliffe students. One wonders who the first person was to brand the typical college girl as a shapeless, stringy-haired, bespectacled creature with the earmarks rather of a bad dream than of an example of American girlhood. Certainly this horrible apparition is seldom to be found in reality anywhere—much less in a percentage large enough to render it typical.

Is it that we Radcliffians are too intelligent? Intelligence is often imagined in this ignorant world to be synonymous with general unattractiveness. The more clever ones among us take pains to hide our knowledge; it offends our gentleman friends. In the first place, they are afraid of it. For them a girl with four A's is a thing to be automatically shunned. Even if she is not a straight "A" student, she may be "smarter" than they, and that would be catastrophic. It is not natural for her to be brilliant.

But despite our success or failure to conceal the fact, Radcliffe is widely known for its scholastic excellence. A large part of the students are attracted

by its courses and professors. However, the fact that we are students does not indicate that we must be spectators of scholasticism. Our proximity to the world is the only respect in which we differ from other girls colleges. We are seen in our sweaters and tweeds carrying books under our arms as we go to our classes. Other colleges go to classes, too, but they are on exhibition only when they have put their books and sweaters aside, in favor of more ornamental attire.

As for our neighbors' criticisms of us—we too have noticed the less attractive members of their universities on the streets of Cambridge. Men's colleges may as easily have scholastic drudges as women's colleges. Therefore, next time they are tempted to throw stones at us, let them first look to their own glass houses.

—Radcliffe News.

Reviews and Previews

FINE ARTS—Ten Walt Disney cartoons and a requested carry-over of Ski-ing in Austria.

PARAMOUNT AND FENWAY—Millions in the Air, musical comedy and a Paramount version of the "Christmas Carol" entitled Scrooge.

METROPOLITAN—Shirley Temple The Littlest Rebel and a stage show Santas on Parade which includes Lela Moore's original and daring Dance of the Lovers. Added attraction, Nelson's Dancing Elephants.

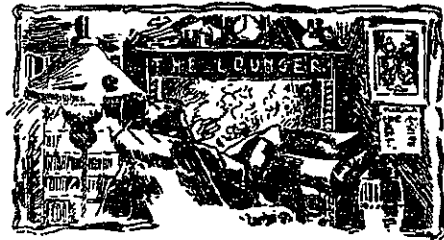
KEITH MEMORIAL—Dostoevsky's Crime and Punishment with Peter Lorre as Raskolnikov and Edward Arnold as the police inspector. Lorre is a bit over heavy to play the part of a starving student but the remarkable ability he demonstrated in "M", a German film of a few years back, ought to outweigh this disadvantage. Shorts complete the bill.

LOWE'S STATE AND ORPHEUM—Whipsaw Spencer Tracy and Myrna Loy in a secret service thriller and The Perfect Gentleman concerning a ne'er-do-well army major (just think of the cracks a pacifist could make).

MAJESTIC—A Midsummer Night's Dream.

RKO BOSTON—East of Java with Charles Bickford as an escaped gangster prey to wild animals on a desert isle. Gene Stratton Porter's Freckles with Tom Brown and Carole Stone.

UPTOWN—So Red The Rose, Stark Young's Novel of Civil War days and Will Rogers in Old Kentucky.



Defense against Chemical Warfare

Papers with earlier editions than The Tech have already told you how "two hundred" Sophomores were subjected to "actual conditions of warfare". Also that the Communists were responsible. Responsible for the tear gas bomb we mean. We can supply a different angle.

The bomb, by the way, was a real Army specimen, not the product of our Chem. warriors. And for the last month or so, a similar bomb has been knocking around the dorms. Now tear gas bombs age, and after a rather short period of time they become impotent. So there are the facts. The young man in the dorms with an instrument for producing mass disorder—said instrument to be used if at all within a few weeks. What would you have done under the circumstances? He did. Voo Doo.

For the first time in several months, students took the pains to read Voo Doo from cover to cover. But there wasn't a single questionable joke to be found. Opinions for once did not differ as to the merits of the Christmas issue. But there were a few indications that Voo Doo has taken a turn for the better. Of course it must have been a great mental strain to produce a clean issue. Rumor has it that Voo Doo was compelled to import writers in order to fill its pages.

Incidentally, for those who haven't been able to figure it out, the "ears of coal" on the maiden in one of the poems did not mean that she was a dusky beauty. The expression was originally "ears of coral".

Herbert Hoover, Jefferson Davis, Benjamin Franklin, Henry Hudson, William Penn, David Livingston, and Ben Hur are registered at the University of North Carolina this year.

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Basketball Team Meets Mass. State At Tech Tonight

Lost To Boston University By One Point On Tuesday Evening

Thornton Not Starting Tonight

Losing by only one point to B.U. the other night the basketball team will be out to avenge themselves at the expense of Mass State at the hangar gym tonight.

Coach McCarthy's quintet virtually threw away the B.U. game by keeping up the pressure when they were leading by five points with only four minutes to play; but they looked so good even when losing that they are favored to take the Mass Staters tonight.

The starting line-up for M.I.T. will be Lippett at center, Kangas and Garth as forwards, and Denton and Wu as guards. Thornton has not been in the best of health the past few days and will not start.

Ed Brittenham

(Continued from Page 1)

as the practice was only instituted last year.

The guest speaker at the banquet was Ralph T. Jope, '29, of the Advisory Council on Athletics, who praised the team for the fine showing they made this year. He complimented them on their great spirit as well as ability, which in spite of limited practice and training, has paved the way for the death of a peculiar feeling among Tech Undergraduates that Tech teams cannot win. This year's team while boasting only two wins and a tie out of a total of seven games is nevertheless the best Soccer team M.I.T. has had in ten years. Against the best teams of the East, it scored eight goals and had only thirteen scored against it. Tufts and Bridgewater Teachers College were defeated and close games were dropped to Brown, Harvard, and Army by scores of 1-0, 2-0, and 3-2 respectively. Yale's 4-0 win was the only one that could be called decisive.

Five Seniors Will Be Graduated

Next year's team will have to get along without five outstanding seniors, but it will not be without talent as very good material remains. The seniors who will graduate this June are Billy Wu, Murray Waxman, Harry Essley, Jack Hamilton, and Al Gray. The last three of these men have each won three Varsity Soccer letters.

Library Established To Benefit Course II

A library of current periodical literature in fields related to mechanical engineering is now available in Room 3-174 to members of the Institute staff and to graduate students. Its purpose is to make it convenient for graduate and staff members to keep informed of current developments in their fields.

Included in the list of periodicals received are the more important American journals of the field and survey periodicals from England, Germany, France, and Italy. In most cases, only recent issues will be on the shelves. Reference to earlier issues must be made in the Central Library. The hours of the new library are from 9-5 except Saturday, when 9-1 is the period.

Sharpshooters Break Institute Rifle Mark

At a recent match with the Arlington Rifle and Revolver Club, the Technology Rifle Team set a new Institute record for a two position shooting total. Bettering the old record for standing and prone shooting with a five man team by one point, the sharpshooters set a new record of 914 points out of a possible thousand. The final score was 914-890.

Beats Lowell Textile

Last Friday the team vanquished Lowell Textile Rifle team by the score of 884-844 to add to its string of victories.

Tech Tracksters Ready For Season

K. Of C. Games First Important Meet For The Varsity Track Team

Varsity track gets underway at Tech with the first major meet on January 25, 1936, the annual Knights of Columbus Games, which are held annually at the Boston Garden. One of the highlights of the meet is the college one-mile relay.

After the Knights of Columbus Games, the Varsity squad goes to New York on February 5th to participate in the Milrose A.C. meet. Three days later, February 8th, the Varsity with the freshmen track team will take part in the annual B.A.A. contest held at the Boston Garden. Several dual meets with other colleges have also been arranged.

Since school opened, the tracksters of Tech have been training faithfully under the expert guidance of their coach, Oscar Hedlund. Both the Varsity and the freshman track candidates have been rapidly getting into good condition.

Relay Teams Formed

One of the features of this year's season is the formation of two one-mile relay teams. The members of the cross-country team, who were allowed to rest for a few weeks, have also turned out for the indoor season. The outstanding men on the Varsity are: Stan Johnson, captain, Henry Guerke, cross-country captain-elect, and Eugene Cooper, ace middle distance man.

Vacation Practice

In order to give the track squad the necessary practice during vacation, practice sessions will be held from three to four o'clock every afternoon, except Christmas Day.

Henry Cargen Jr.

(Continued from Page 1)

tances, has been using his position as a manager to cover his dastardly activities with a cloak of risqué humor.

For some time Cargen, or properly Vestibuleovitch, has been planning his coup. The tear gas bomb he has had for nearly two months, and finally realizing his opportunity yesterday morning, he made his sinister way to a classroom full of innocent but hated students. The general effect of his insidious work is told elsewhere.

Investigation of Vestibuleovitch's work on the Institute's "humor" has already begun. One important member of the Investigating Committee, who refused to be named, did allow himself to be quoted as saying, "Perhaps this will explain many things in regard to the issue of Voo Doo since this X—X (he paused for a word), since this bolshevik has become General Manager."

Cargen's, or, excuse us, Vestibuleovitch's whereabouts could not be learned. It was suspected by G-men that he will try to return to Russia under an assumed name.

Luis deFlorez

(Continued from Page 1)

enable him to more readily bridge the gap between the class room and engineering practice.

Mr. deFlorez, who is a graduate of Course II, 1912, pointed to the need of applied ingenuity as a requisite factor in engineering. He illustrated with many examples taken from his own very successful career.

Undergraduate Notice

Tech Cabin is signed up, with the exception of six week-ends, until May 3. Students wishing to sign-up for the cabin are asked to do so on the regular cards, and not on the sheet in the front office of the T.C.A.

Mountain Climbing

Ski—Skate—Snowshoe!!!

Mt. Madison House

Gorham, N. H.
Paradise for Winter Sports
Myriad of Ski Trails
8 Miles from the Base of Mt. Washington and Tuckerman Ravine
Pleasant Rooms Fine Food
Agreeably Priced
Just the Place for Your Week-end

Students To Be Admitted Free To Basketball Game

Free admission to Tech students, with bursar cards, and forty cents for outsiders at the M.I.T., Mass State basketball game at the hangar gym tonight. Come and support the Beavers.

Institute Committee

(Continued from Page 1)

delegate or not to the American Student Union, it was decided in the negative. The American Student Union is a newly proposed league, to consolidate the efforts of the N.S.L. and the S.L.I.D.

The Committee decided to admit the A.M.E. and the Radio Society to the Combined Professional Societies.

Changes In Field Day

Several recommendations were made in regard to Field Day. The tug-of-war, it was suggested, might be made to count more points than it has hitherto. And the crew race might be made to count less. The Committee was definitely opposed to the idea of continuing the egg-fights.

Robert F. Gorden, '37, Henry H. Guerke, '37, Harry M. Weese, '37, were appointed to the Student Faculty Curriculum Committee.

The Committee voted to turn over to the Budget Committee the \$95 from freshmen ties. The Budget Committee is to hold this sum at the disposal of the Beaver Key Society, which has no other source of revenues.

A tentative constitution for the proposed Nautical Association of the Massachusetts Institute of Technology was tabled, pending further discussion over a period of a week or two.

Motion was made to charge the Class of 1939 \$40 to cover the expense of hiring a flag pole climber to get down the flag which the Freshmen put up on Field Day.

5:15 Dance

(Continued from Page 1)

of cash, the club will allow tickets to be bought on a \$1.00 deposit with the payment of the remainder at the door. The dance is strictly for Technology students, and busar's cards must be shown for the purchasing of all tickets.

Infirmary

Harvard K. Hecker, '38; R. Hickman, employee; E. Howley, employee; Louis E. Pepperberg, '37; and W. Tibbets, employee.

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8:30 to 11:00
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AGAIN THIS YEAR

JOE REICHMAN and his ORCHESTRA

Dance-music favorites in Boston's favorite place to dance . . . the

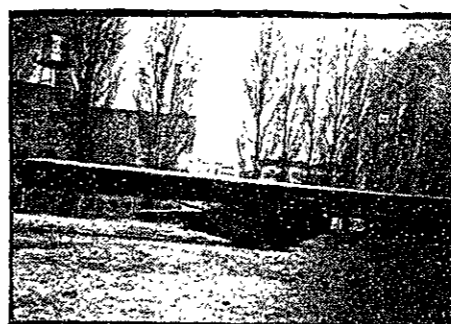
STATLER

DINNER DANCING and SUPPER DANCING

Every Night Except Sunday

HOTEL STATLER

NEW GLIDER



Franklin Utility Glider Bought by A.E.S.

Glider

(Continued from Page 1)

'38, borrowed the ship for several flights and flew the plane for the society. On one flight he remained in the air for over four hours, and rose four hundred feet above the starting point.

With two ships now in flying condition and the Alfaro glider now in the process of construction, the club should be an imposing contestant at the Elmira gliding meet. Last year, with but one ship, the Tech organization placed fourth.

The club is a very active organization. So far this year two training trips have been taken, during which time there has been a total of three hundred and eighty flights. The flying has been done by twenty-five members, twelve of whom had never flown before. After vacation, pending favorable weather, the club will resume its shop work and overhaul the gliders. Activities for the next term will include smokers at which speeches on aeronautical subjects will be heard. Announcements of dates will be made on bulletin boards.

M. I. T. Swimmers Defeated By B. U.

First Victory For B.U. Since 1933, Winning Seven First Places

Without a single victory to its credit since 1933, a powerful, well-balanced Boston University swimming team met the Tech team Wednesday afternoon at the Boston Y.M.C.A. pool on Huntington Avenue smashing one record, capturing seven of the nine first places, and more than doubling the score over its adversary, which it defeated 57-20.

Cleon Dodge, Tech swimming star, had an easy time in defeating John Mileikis of B.U. in the 150-yard backstroke race, winning by more than half the tank. The other Tech victory was turned in by Bernard Vonnegut in the 200-yard breaststroke in which he defeated James Gould of B.U. by three yards.

The closest race of the day was the 50-yard freestyle in which Hedquist nosed out Ward Rafferty by a scant yard after a side by side battle for two tank lengths.

Ellis Gordon of B.U. provided a big thrill to the crowd, when he overtook a ten-yard handicap on the anchor of the 300-yard medley relay race.

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The Massachusetts Institute of Technology

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THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY offers courses in the following fields of study:

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Options: Biology
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Chemistry
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SCHOOL OF ENGINEERING

Aeronautical Engineering
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Options: Chemical Engineering
Civil Engineering
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Mechanical Engineering
Chemical Engineering
Chemical Engineering Practice
Civil Engineering
Options: General
Geodesy and Seismology
Hydroelectric
Transportation
Electrical Engineering
Communications
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Electrochemical Engineering
General Engineering
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Options: Metallurgy
Mining Engineering
Petroleum Production
Physical Metallurgy
Naval Architecture and Marine Engineering
Ship Operation
Sanitary Engineering

Each of the above courses is of four years' duration, with the exception of Architecture, City Planning, and the Co-operative Course in Electrical Engineering. These three courses extend over a period of five years.

A five year course is offered which combines study in Engineering or Science and Economics or other social sciences. This leads to the degree of Bachelor of Science in the professional field and the degree of Master of Science in Economics and Engineering or Science.

Graduate courses leading to the degrees of Master of Science, Master in Architecture, Doctor of Philosophy, Doctor of Science, and Doctor of Public Health are offered. A course in Public Health is offered, which is essentially equivalent to that prescribed for the degree of Master of Science, and leads to a Certificate in Public Health.

Graduates of colleges or of scientific schools of collegiate grade, and in general all applicants presenting satisfactory certificates showing work done at another college corresponding approximately to at least one year's work at the Institute, are admitted to such advanced standing as is warranted by their previous training, and are given credit for our required subjects, including the entrance requirements, so far as they have been satisfactorily completed.

The Summer Session extending from June to September includes most of the subjects given during the academic year.

For information about the methods of admission from secondary schools, communicate with the Director of Admissions.

Any of the following publications will be sent free upon request:

- Catalogue for the academic year
- Summer Session Catalogue
- Architectural Education—Undergraduate and Graduate
- Educational Opportunities at the Massachusetts Institute of Technology
- The Graduate Schools of Science and Engineering

Correspondence should be addressed to the Director of Admissions

Lowell Institute

(Continued from Page 1)

Sir George is Counsellor of H.B.M. Embassy, Tokyo, and Visiting Professor of Japanese Studies at Columbia University. These lectures will be held at 5 o'clock every Monday and Friday from January 6 to January 24.

All lectures are held in Huntington Hall, on Boylston Street. Tickets may be secured free of charge by applying, through the mail, to the curator of the Lowell Institute, 491 Boylston Street, Boston, and enclosing one stamped, self-addressed envelope for each ticket desired.

The Lowell Institute was founded by John Lowell, Jr., in 1836, and was first opened to the public in 1839. The Institute each year conducts numerous series of educational lectures, which are available to all members of the public.

Tear Gas

(Continued from Page 1)

room in an orderly manner, due in part to the fact that they had been instructed as to the harmless after effects of this gas.

The class met later in Room 3-440 and the scheduled instruction was completed.

There are no tear gas grenades on hand in the department and this grenade was evidently procured from outside sources."

(Signed) T. J. JOHNSTON,
Major, C. W. S.

Major Johnston was carrying a gas mask when he first entered the room at the beginning of the period and some of the students thought that the bomb had accidentally exploded after having been brought to class as an exhibit.

It was also rumored that the bomb had been concealed in back of the steam radiator near the entrance and that the safety pin had been released by someone in the front row of the class. Following up this theory, a reporter of The Tech found several pieces of charred thread near the radiator.

The structure of the bomb is similar to that of the well-known hand grenade; a safety pin is pulled out which sets off a percussion cap that ignites the bomb after an interval of several seconds. The grenade was seen to scoot across the floor from the radiator to the speaker's platform. Whether it rebounded from

Tech Union

(Continued from Page 1)

velopments as the camera and the spectrograph, and revealed the methods of tracking down criminals by the analysis of soil, dust, stationery, typewriting, and even postage stamps. Plaster casts of the prints of truck tires have even been made, to make the evidence of a case complete.

The "Lie Detector"

Mr. Coffey also explained briefly the working and use of the "Lie Detector", a device used to obtain confessions from suspected criminals. This apparatus, said the speaker, is very effective, but is a yet not recognized as evidence by the courts. He expressed a hope, however, that this ruling would be changed in the near future.

Mr. Coffey concluded his talk by extending an invitation from J. Edgar Hoover to the students and faculty of the Institute to visit the offices and laboratories of the Bureau of Investigation in Washington. Claxton Monro, Jr., '36, president of the Tech Union, conducted the meeting and introduced the speaker.

the radiator after being thrown through the door or whether it had been concealed behind the radiator and was set off by one of the students in the room is still a matter of conjecture.

T. C. A. Transportation Service Is Successful

Two thousand dollars worth of tickets were sold to Technology students Wednesday and Thursday by just one of the railroads represented at the T.C.A. office this week. While exact figures are not available it is known that this is about the same as the whole amount of tickets sold by the lines represented last year during the week they had representatives at the Institute. The railroad, bus, steamship and air lines representatives wind up their affairs here at 2:00 P.M. today.

Many students who went home by bus last year are going by train this year, and there are quite a few who are flying home.

The passenger-driver service conducted by the T.C.A. has brought together several dozens of students who will travel together by auto. Among these is one auto going to New Orleans, and another going to Hamilton, Ontario.

Alpha Chi Sigma

(Continued from Page 1)

the basis of scholarship and personality. An even more extensive program of initiation is planned for next year.

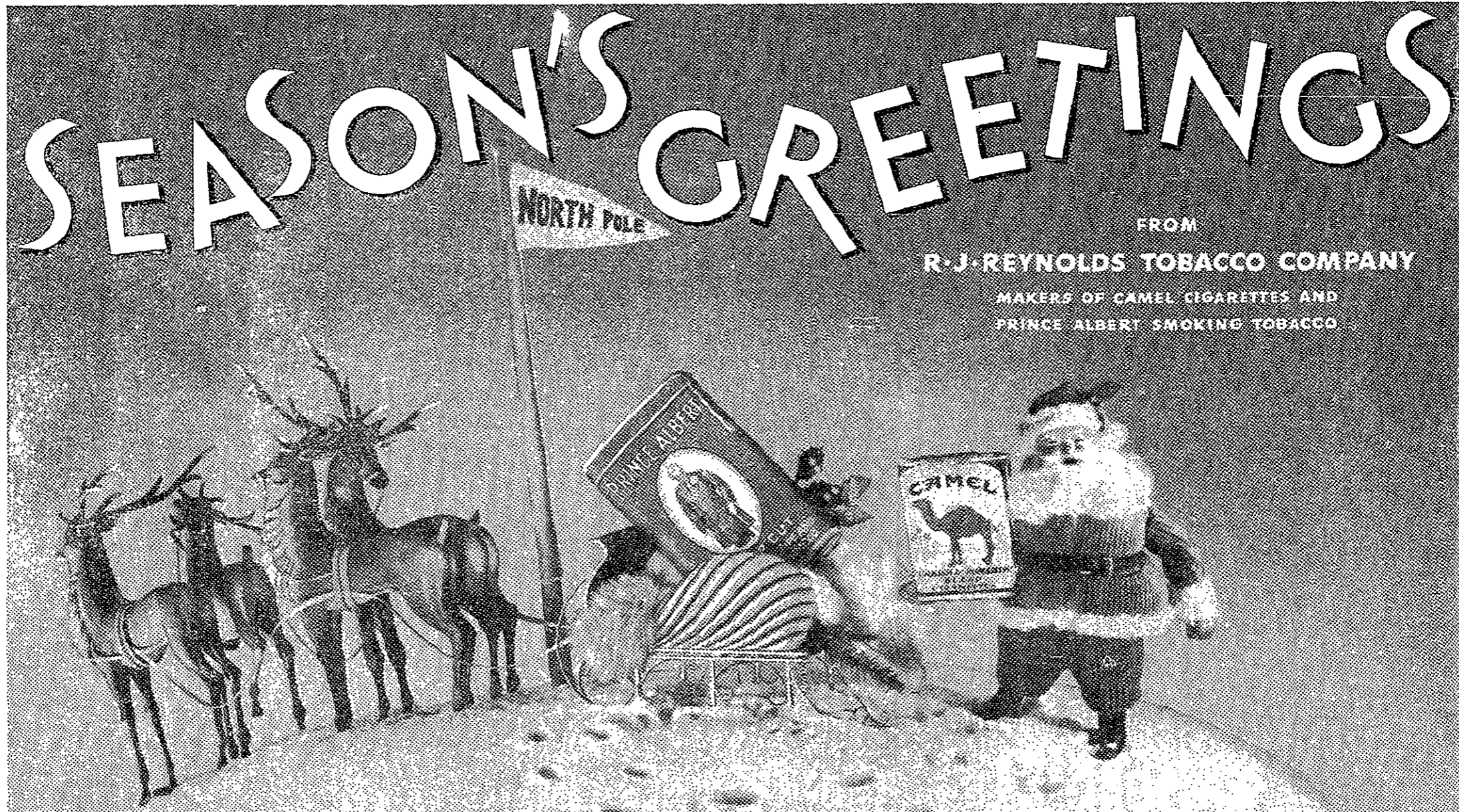
The initiation closed a very successful and a very active year for the fraternity; no small part of the success was due to the help of Dr. Avery A. Ashdown, the faculty advisor, who has done much to make the activities of the fraternity successful by his interest and attendance at functions. Particularly successful were the Alpha Chi Sigma dance in the 5-15 Room, December 7, and the Open House exhibit last spring, which consisted of a complete alchemist's laboratory.

After the initiation a banquet was held in the Boston Chamber of Commerce Building. Mr. Earl P. Stevenson, in charge of patent cases for Arthur D. Little, Inc., was the guest speaker and spoke on the technological aspects of patents

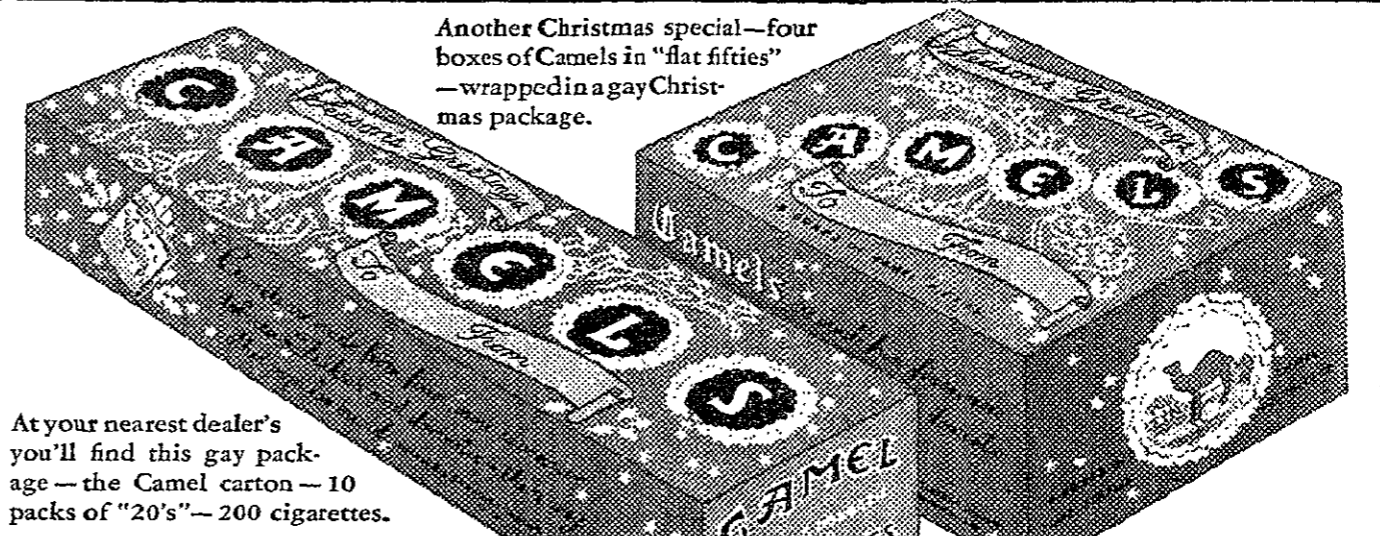
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Sunday Services 10:45 a. m. and 7:30 p. m.; Sunday School 10:45 a. m.; Wednesday evening meetings at 7:30, which include testimonies of Christian Science healing.
Reading Rooms—Free to the Public.
333 Washington St., opp. Milk St., entrance also at 24 Province St., Statler Office Bldg., Park Sq., 60 Norway St., cor. Mass. Ave. Authorized and approved literature on Christian Science may be read, borrowed or purchased.

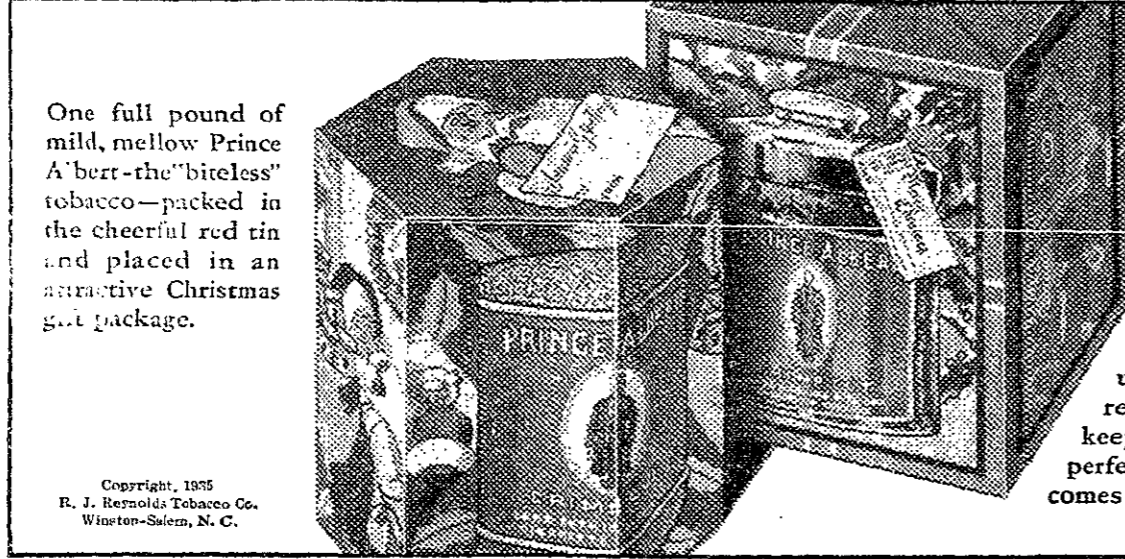


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Another Christmas special—four boxes of Camels in "flat fifties"—wrapped in a gay Christmas package.



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Prince Albert
Fine tobacco for Christmas. For more than a quarter of a century, the mellow fragrance of Prince Albert has been as much a part of Christmas as mistletoe and holly. So to the pipe smokers on your Christmas list give Prince Albert, "The National Joy Smoke." It's the *welcome* gift. For more men choose Prince Albert for *themselves* than any other pipe tobacco. Let every pipeful of Prince Albert repeat "Merry Christmas" for you.

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