



TECH NEWS

WHERE'S
THAT
HAZING?

Z320

Volume XXXVII

Worcester Polytechnic Institute, Worcester Massachusetts, Tuesday, July 17, 1945

Number 8

S.C.A. Organizes Discussion Groups To Talk on Topics of Day

Dr. Dwight Lee Leads Discussion of Peace Conference

Engineering training in the last few years has had a tendency to put blinders on the student's scope of national affairs in the field of politics, diplomacy and economics. It is with an effort to counteract this tendency that the Student Christian Association is announcing the inauguration of a program that will, in slight measure, give the students a comprehensive picture of these various affairs that get daily headline attention. This program will consist of panel discussions led by a speaker that is considered an authority in the particular question of the evening.

These discussions will take place in the Janet Earle Room beginning on Monday evening, July 23, at 7:00 and coming at two week intervals thereafter, August 6 and 20, September 3. These dates have been picked with a view toward a very flexible program to conform to the interest shown and to allow for the possibility of interferences.

The Student Christian Association is indeed honored to present as the first topic for discussion the results of the San Francisco Conference. Our leader for the first meeting will be the noted Dr. Dwight Lee, professor of History and International Relations at Clark University. He has just come back from San Francisco where he was professional adviser and secretary to the American delegation.

This is indeed a very good opportunity for those of the student body who are interested, to get acquainted with the skeleton of what promises to be one of the greatest attempts to wage peace. The date for this first meeting is July 23, 1945, Monday evening at 7:00 in the Janet Earle Room.

Among some of the other subjects tentatively planned for discussion are, Peacetime Military Training, Labor and its pros and cons, What to do with Germany, Racial Minorities, Policing Germany, Socialized Medicine, and Women in Industry. These topics are subject to change in order that the SCA may bring up any subject that is in popular demand. The discussions will be as informal as possible. The meetings are open to all interested.

It is thought that the discussions will be very popular and continuation of them will depend on the interest shown by the student body.

Selection of Officers For This Year Made At Class Meetings

Gagliardo President of Senior Class. Mazzone Is Elected to Head Juniors

The Class of '47 (present Senior class) elected the following officers at a meeting held last month: J. P. Gagliardo, President; R. B. Davis, Vice-President; C. A. Herbert, Secretary; T. E. Lempges, Treasurer; G. H. Conley, Class Historian; A. C. Kellermann and P. J. Vozzola, Navy members of the Tech Council; and W. R. Bingham, civilian Tech Council representative.

In a recent election the Class of '48 (Juniors) elected F. L. Mazzone, President; G. A. Schupp, Vice-President; A. N. Charest, Secretary; W. E. Boyd, Treasurer; and Tech Council representatives G. R. Hawke (Navy) and G. L. Philip (Civilian).

The President and Vice-President of the Class of 1949A, T. J. Coonan and E. W. Pepyne, have enlisted in the Navy, leaving the Secretary, Ed George, and Treasurer, V. A. Zike, to carry on. It is undecided whether elections will be held to elect a new President and Vice-President from the thinning ranks of the Sophomores.

In the election held July 13, the Freshman class elected a committee to function in place of class officers until such officers are elected.

Members of this committee are: Julian, Hubble, Meikljohn, Peerin, Okun, Jodroy, and Torrey. At the same time, a committee was appointed to organize a Freshman play. Members of this group are: Harding, Marcello, MacIntyre, Yurkee, Friedman, Robson, Allen Meikljohn, and Hill.

Annual Contest For Prize Essay To Start Soon

STUDENTS! Here is your opportunity to win fifty dollars (\$50). This prize has been generously endowed by the Class of 1879 and it is awarded annually to an undergraduate of W.P.I. All that you have to do is to write an essay on some scientific or engineering subject. The best essay wins! Here are a few rules that you must follow:

Length: Minimum, 2000 words; maximum, 4000 words.

Subject: The essay must be definitely in some field of science or engineering.

Treatment: The essay must be so (Continued on Page 3, Col. 2)

"Peddler" Staff Appointed For 1947 Yearbook

New Staff Already Organizing For Next Edition of Yearbook

With the graduation of the Class of 1946, the retiring Senior staff of the *Peddler* has appointed a new Senior staff to carry on its work in the coming 1947 yearbook. Well aware of their responsibilities to the students and to the school, the new staff has already been organized and is now making plans for the next edition.

Edward Funk will take over the position of Editor-in-Chief, succeeding Ed Pendleton, while Charlie Mitchell becomes the new assistant editor. The rest of the staff is comprised of: Augie Kellerman, business manager, Tom Lempges, assistant business manager, George Conley, managing editor, Harry Mehrer, advertising manager, Pres Grout, assistant advertising manager, and John Gagliardo sports editor. The photography department will be managed by Joe Fischer and Chris Herbert, with George Fritz as assistant.

In order to make the next *Peddler* the best ever printed, the new staff requests that everyone help out by collecting informal photos of life on the WPI campus, so let's all pitch in and help.

FRESHMAN CLASS ORGANIZED BY TECH COUNCIL

Under the supervision of the Tech Council President, John P. Gagliardo, the Freshman class has begun to adjust itself to the responsibilities of working together on the campus. The class has been divided into seven groups, six civilian and one Navy. From each of these groups one man has been chosen to represent his division. Julian, Hubbel, Meikljohn, Yurkee, Okun, and Butler are the civilian representatives, while Torrey is the representative for the Navy Freshmen. These men are holding only temporary positions until the class elections which will be held in the near future. In the meantime the class will have an opportunity to arrive at a decision as to the men that they think will be best qualified to hold the positions of the class officers.

The Tech Council has chosen three men, Hubbel, Julian and Torrey, from the class for representatives. Again these positions will be temporary until the elections are held.

Graduation Ceremonies Impress As Tech Men Awarded Degrees

Faculty Promotions Announced Recently By Adm. Cluverius

Prof. Allen and Supt. Gray Retired. Crosier Leaves to Study at Michigan Univ.

On June 22nd Admiral Cluverius announced the new changes in the Tech faculty. Promotions held the most significant place in the new arrangement, which went into effect on July 1st.

Two of the outstanding men of letters were retired after giving many years of devoted service here at the Institute. Prof. Allen, well known for his work in the Hydraulic field, retired on March 1, but still retains directorship of the Laboratory on Hydraulics. Burton Gray, Superintendent of the Washburn Shops, retired on June 30, after 35 years of service, to become an Instructor Emeritus.

Five of the assistant professors were awarded full professorship. In the Mechanical Department the following were so honored: M. Lawrence Price, Leslie Hooper, and Arthur J. Staples.

The two other men to receive this distinction were Edward C. Brown and Claude K. Scheifley.

Two other faculty members, John H. Shultz and Ralph Heller, were promoted to Assistant Professors.

J. Adams Holbrook was named superintendent of the Washburn Shops replacing Mr. Gray.

Industry accounted for two of the losses in the Tech Faculty in the persons of Gordon T. Gurney and Karl Treckel. Harold Crosier, Jr., has resigned to complete further studies for a Doctor's degree.

Annual Carnival And Rope Pull Come Aug. 18

The annual Tech Carnival will be held on Saturday, August 18, the evening of the day of the Rope Pull. Interest is growing among the underclassmen as the date of the competition approaches.

The Freshman class had a meeting Friday afternoon at which they appointed a committee to work up an entertainment. The Sophomores will meet Tuesday to select a group to develop their skit. Both the '49A and '49B classes of Sophomores will collaborate to try to outdo the Freshmen. The last Carnival was held last fall and was won by the Sophomores, the present Seniors.

Ira H. Mosher Gives Inspiring Talk On Engineering Future

Awards Presented For Outstanding Achievements On Tech Campus

One of the most colorful and impressive events ever to take place on the WPI campus took place on Saturday, June 23, 1945, when the Class of 1946 received their degrees in Alden Auditorium. The beautiful summer weather added to the feeling of joy that pervaded the campus on that long-awaited afternoon.

The program was to the point, but all the essentials were there to lend the necessary solemnity to the occasion. The event was well attended, even with the wartime restriction on travel, as the auditorium was filled by the graduates' relatives, sweethearts, and friends.

The graduation program was as follows: an organ prelude by Cliff Green, followed by the Processional and the invocation by Reverend. R. G. Preston. Succeeding this, Dr. Ira Mosher gave an inspiring talk to the graduates. Following the speaker, President Cluverius conferred the degrees to the Class, and prizes were awarded by Mr. Harry Lindsay.

Messrs. Richardson, Crosier and Woodsum then entertained the gathering with a trumpet trio. Immediately following this the President gave his customary address to the graduates, and the Alma Mater, Benediction, and National Anthem, succeeded this.

The Recessional presented a picture of happiness, as the new Bachelors of Science strode down the main aisle to be greeted by their parents.

Dr. Mosher's talk was very interesting to both the graduates and to the rest of the audience. One of the high points of his talk was when he made a statement to the effect that, although we study along engineering lines, we live in an economic world and it behooves us to learn, but quickly, the mechanics of our traditional American business methods. His statement was "I charge you, for your future's sake, to learn all there is to learn about the economic life of this land, all there is to know about the free, private competitive enterprise system."

Another part of his talk that would be of interest to us was his statement concerning the need for engineers in industry and the prospect for employment after the war. "According to a survey recently conducted by the National Association of Manufacturers, there will be 31 (Continued on Page 3, Col. 1)

TECH NEWS

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Editorial

Welcome!

Freshmen, the TECH NEWS bids you a late welcome to Tech. By now you have become settled and are concentrating on those ever-present studies. However, you are probably still not sure of what is expected of you besides the little matter of a few hours study.

Is Tech all work and no play? You have doubtless heard a great deal of the super study habits you must develop for your work at the Institute. The faculty and the upperclassmen have told you that your shadow from now on is made of little black symbols representing words, derivations, and tables swimming around in those documents called textbooks. They have called your attention to the relation between the Institute and the Institution and have, in general, given you the impression that you are here for one, and only one purpose—study. The idea that you must apply yourself to your work cannot be too strongly stressed; however, don't feel that it is the only obligation you have to yourself and your school.

There is also a category of appliance in this school known as extra-curricula activities. These provide an education which you will never get in recitation or lecture. Your activity in this quarter will mean the difference between a high school boy and a college man. It will improve your ability to use that sought after degree. Tech life will be what you make it. Join those extra-curricula activities; become a more intimate part of those living organizations. You will find life is much more bearable and your spare moments will soon be occupied in such a manner as to refresh your minds for your school work and, at the same time, give opportunities to increase your ability as leaders and thinkers.

There are some who will take up these activities as part of their daily routine, and others who will say that they have done little in the past and they feel that they would be completely left out on a college scale of activity. Don't fool yourselves. This is a small school and there are opportunities for every single man in every field of endeavor. Many of you have hobbies that are represented on the Hill by various organizations. There are those of you who have interests that are not represented but don't let that stop you; organize your own particular field.

In spite of wartime restrictions this school is carrying on with all of its sports. Soccer and football practice will start the first week of August and your class should be well represented in both.

Remember the Skull award to the outstanding man in the Freshman class; it is worth working for.

Yours is the first large class to come to Tech in the past two years and it will be up to you to carry on Tech's traditions and customs. So get going, organize your class and show us what you've got.

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The Greek Column

TKP

The house pledged eight Freshmen last week. Their names are as follows: Emery Authier, John Brogan, Bill Cunneen, Bill Julian, John Looby, Gerald McCormick, Hugh Robinson, and Don Sasek. A pledge dance was held at the house for these men last Saturday night.

Brothers Harvey and Kearney visited the house recently.

Joe Carrabino and Charles Mayer are now working at Naval Ordnance Laboratories in Washington, D. C.

AEP

The following out of town men have pledged to AEP: Leonard Rood, Alfred Strogoff, Shurman Pava, Norman Laurie, Daniel Sheingold, Albert Goldberg, James Geriser, Norman Mason, Dave Caplan, Harvey Robinson, and Harold Okun. City men pledged were Stanley Marcus and Louis Block.

George Cramer, stationed at King's Point, visited the house Friday while on furlough.

Pvt. Leon Lipshitz visited here on Thursday of last week, and Mendy Gottesdiemer and Maurice Young were back on Sunday.

PSK

There was a house dance last Saturday for the new men. They are Dick MacIntyre, Bob Robson, Tom Hunter, Bob Chin, Bill Yurkee, Ira Hubbell, Harry Mankey, and George Allen.

Bob Raymond, Class of '42, visited the house for the day.

Work on Radio Projects Begun

By Radio Club

The first meeting of the Radio Club was held on Tuesday, July 10, in the E. E. building. With the help of Bill Lee all the members will practice code this term so that they may get an Amateur Radio Operator's license. The Club holds meetings every Tuesday night at which time members may work on radio projects. There are also invited speakers who will talk on different phases of radio. All new Freshmen and interested upperclassmen are cordially invited to join the Club. The officers for this semester are Frank Weeks, President; Prescott Grout, Vice-President; Roy Stillwagon, Treasurer; and Garabed Hovhanesian, Secretary.

ATO

Norman Whittaker, Frank Briggs, Don Chase, George Carson, Ray Olson, Dick Brockway, Bob Strandberg, and Jack Butler are the new Freshmen at ATO. House privileges have been given to George Button. There was a dance for the new men Saturday.

Brothers Larry Borst and Dick Bartlett, both radio technicians, are together again at Gulfport.

LXA

There was a pledge dance last Saturday for the nine new men. They are: Dick Noble, Bob Johnson, Fred Gammons, Bill Taylor, Condit Pierce, Dick Reckert, Charles Rollins, Bill Land, and Mervyn Perrine.

W.I.P. GLEE CLUB PLANS SUMMER SING PROGRAM

The Glee Club has resumed its activities for the summer season. An invitation is cordially extended to all who are interested and especially the new men for membership in the organization. Rehearsals will be held on Thursday evenings at 1845 and it is probable that there will be one or two concerts during the summer.

At the last meeting of last term, the following men were elected for the coming year: President, P. Vozzola; Vice-President, T. McCaw; Secretary-Treasurer, E. Supple; and Librarian, F. Mazzone.

Breakfast Held By Newman Club

On Sunday morning, July 8, 1945, the Worcester Tech Newman Club held a Communion Breakfast at Putnam and Thurston's restaurant in Worcester. The Breakfast was very well attended by the members of the club.

Father Brabson, the Newman Club Chaplain, introduced the speaker, Father Charles Buckley, S.J., an instructor in the Jesuit Novitiate in Shadowbrook, Mass. Fr. Buckley's talk concerned the many false ideas that we have about the Saints, and also gave the listeners some advice as to how each one of us can attain sainthood by leading our normal lives, and not necessarily doing great penances, as many persons believe sainthood requires.



RESEARCH AND ENGINEERING KEEP GENERAL ELECTRIC YEARS AHEAD



HOSPITAL ON WHEELS

SOME PEOPLE—perhaps when they're very young—have a touch of tuberculosis. It may be just a spot on their lungs, which hardens and never causes any trouble. On the other hand, thirteen people out of a thousand, when examined by X ray, show evidence of reinfection tuberculosis. This does cause trouble unless it's treated at once.

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Hear the General Electric radio programs: "The G-E All-girl Orchestra," Sunday 10 p.m. EWT, NBC.—"The World Today" news, Monday through Friday 6:45 p.m. EWT, CBS.—"The G-E House Party," Monday through Friday 4:00 p.m. EWT, CBS.

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GENERAL ELECTRIC

SPORT SIDELIGHTS

By Bill Jaegle

The time is rapidly approaching for Tech's gridmen to get out on the field and show what secret abilities they possess. Coach Stagg states that the first day of summer football practice will be July 30. And what about our collection of iron men for this year? It is obvious that the Navy's contribution to the squad will be smaller than last season. We shall miss the power-house backfield drive of the Schmit, Norige, Kennedy, and Simon combination in our coming contests. The majority of last year's squad left Tech in the two graduating classes since October of 1944. Those who were left behind are on the whole light men but with plenty of drive. Harry Mehrer, the only returning letter-man, saw quite a bit of action. Paul Stagg was amazed at Harry's carrying the ball around right end in his left hand. Mehrer will in all probability figure in at right half this year. Ted Gazda and Jack Williams playing quarterback respectively are the only other experienced backers we have. The line is going to present the more difficult problem in that it will be a case of starting practically from scratch. Guard Bob Davis, tackle John Dzwileski, and linemen Y. T. Sarkees and Tom Passanisi appear to be the remnant of the previous year's string. Bob has plenty of push for a small man; John should round out to a good first string tackle with a little more experience; the other two men will add to that very necessary weight feature of any line. The three crucial positions are center, kicker, and passer. Harry Mehrer will rightfully lay a heavy finger on the latter, but nothing can

Graduation

(Continued from Page 1, Col. 5)

per cent more jobs in manufacturing industry after this war than in the last year of peace."

Concerning the opportunities for advancement he had this to say: "... Simply enough, that means that the better engineers among you should have the highest rewards, that the hardest working members of this class get the maximum for their work, and that the shirkers get only the result of their shirking. There isn't any mystery about that. There can be no quarrel with simple justice."

There was a total of 8 awards given by Mr. Harry Lindsay. John Dzwileski won the first prize of \$75 in the peel contest and Howard Mayo won a second prize of \$25. Six awards of \$100 each were made to six seniors for outstanding ability and all-round activity. They were: William R. Grogan, Robert H. Hotchkiss, Richard H. Anschutz, John H. Barrett, Walter W. Gleason, and Carl F. Simon, Jr.

be definite this early. The center and kicker worries are the coach's biggest just now with no one in sight for either slot. That is how the football situation stands at present. Some may not think too highly of the small number of our veterans, but remember all our opponents will be faced with the same difficulty. Incidentally, we shall probably have five games with the same schools as last season.

The squad should gain several men from the upper class Navy and civilian groups who didn't show up for practice in other years. Coach Stagg is counting heavily on our new crop of Freshmen. He observed that many show athletic ability and should make good men with a little work. Previous football experience is not a necessary condition to come out, he maintains. Let's go, Freshmen! Don't be backward. If you've picked watermelons, then maybe you might have the natural grip for a passer. Get out there!

Essay Contest

(Continued from Page 1, Col. 2)

written as to be suitable for publication in some general or popular magazine; that is, it should be intelligible to readers outside of scientific and engineering circles, and should appeal to the average curiosity of interest.

Character: (a) The Essay should give evidence of precise and fairly comprehensive knowledge of subject. (b) It should not be copied or abstracted in whole or in part from any source. (c) It should be accompanied by a bibliography, or by a statement of the writer's experience, or by both. (d) It should confirm grammatically and rhetorically to rules of good English.

Form: The Essay must be typewritten on page 8½ x 11 inches, on one side only, double spaced, with margins 1½ inches at left, 1 inch at right, and 1 inch at the bottom. The pages should be numbered consecutively at the top.

The Essays will have to be handed in to Professor Higginbottom. The date for closing the contest has not been announced as yet. Nevertheless, get busy—start now—win \$50.00.

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New Softball Tournament Is Under Way

Navy Platoon Teams And Fraternities To Compete in Games

The announcement of a new softball tournament for fraternities and Navy men alike has just been made by Professor Carpenter. The tournament will be composed of two leagues, including the nine fraternity houses and all the platoons of the V-12 Unit. This will be similar to the competition last year, which was finally won by Phi Gam after a thrilling and hard fought tournament.

All the games will be played on the football and soccer fields on the lower campus. It is expected that all the contests will be played off by the end of August, when the call for fall sports will be made by Coach Stagg.

Much hidden talent will undoubtedly come to light if past performances can be taken as a guide. So far it is too early in the season to predict what team will take the cup, since graduation and numerous "greetings" cards have made quite a few holes in the softball ranks. However, the new Freshman class has contributed many good players to both the platoon teams and the fraternity groups.

DEBATING SQUAD

Within the next two weeks the semester's debating squad will be organized. Candidates, civilian and Naval, for team and managerial positions are invited to leave their names with Mr. Easton in Boynton 16, and will meet at an announced time for organization, probably in Alden.

Candidates with experience both in debating and management are urged to report, although such experience will not necessarily insure their selection.

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FRESHMEN !!!

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Club News

A. I. E. E.

At the last meeting of last term, the following men were elected to offices in the student organization: President, F. E. Weeks; Vice-President, K. H. Truesdell; Secretary, D. Lewis; and Treasurer, R. E. Stillwagon. Monthly meetings are planned for this term and these will include speakers and demonstrations.

A. S. M. E.

This term, the Society has planned to have field trips as well as meetings each month. It is expected that there will be speakers at these meetings to set forth their views on post-war opportunities for employment. Also, because most of the present members are Aero's, some of the talks will specialize in Aviation. The newly-elected officers are as follows: President, H. L. Schimmack; Vice-President, R. Hamilton; Secretary-Treasurer, A. Rockwood. There is no possibility of accepting any new members until next November.

A. S. C. E.

The following men were elected to offices at the last meeting of last term: President, T. Gazda; Vice-President, R. Kuykendall; Secretary, T. Wyllie; Treasurer, W. Bingham. Applications are available for the present Sophomores and future meetings are scheduled with the prospects of having successful engineers as speakers.

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Worcester Telegram

The Evening Gazette

Sunday Telegram

Radio Station WTAG

Tech Expects a Winning Soccer Team This Year

Grout, Renasco, Breed, Hamilton, and Mitchell Left From Last Year

When August rolls around Coach Higginbottom will be confronted with a situation similar to last year. He will have to build the soccer team around two returning lettermen, Pres Grout and Manual Renasco. Grout played halfback on last year's team while Renasco patrolled the field in the fullback position. Renasco's versatility will be well utilized on this fall's team. Others who saw action last fall and who, along with the two returning lettermen, are expected to form the nucleus of this year's soccer team are: Bob Hamilton, Al Breed, and Charlie Mitchell. The team will be without the services of Mal Zinc, captain-elect, who did a good share of Tech's scoring last fall.

There are a number of Navy transfers and Freshmen who have had experience playing soccer before coming to Tech, raising the hopes of another successful season. Coach Higginbottom has a reputation of always turning out a winning team, and with the expected material, we can look forward to equaling last year's excellent record of five wins, one tie, and one loss.

Al Rockwood is manager of the team, but as yet a captain to replace Mal Zinc has not been named.

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Tech Graduate Writes Dynamic Poem: 'Typhoon'

One of the graduates of Worcester Tech's V-12 Unit who was aboard a destroyer in Admiral Halsey's Third Fleet during the typhoon which damaged 21 Naval ships, has written a poem describing his thrilling experience. The author, Ensign James I. Donohue, graduated from Tech in 1942. He will be remembered by many of the Seniors as one of the most well-liked men of the campus during his stay at the Institute.

Ensign Donohue held many student offices in the Naval Unit, and was Battalion Commander at the time of his graduation. After graduation from the Reserve Midshipmen's School at Annapolis, Jim was chosen as one of the eight men to teach engineering at Annapolis, before leaving the West Coast on a destroyer in October, 1944.

With the permission of the Worcester Telegram, we reprint the poem, "Typhoon".

TYPHOON

The night is dark, the waves toss high

But we are not alone,
For there above
Is one we love
And watches while we moan.

Sleepless sleep, throughout the night
While we toss and roll,
For the way is rough
And sleep enough
Is not for us to hold.

Through the black we plunge ahead,
From stern to quivering bow.
What lies ahead
Can ne'er be said
Or known to us not now.

Perhaps the dead from Davy Jones
Will come to meet us here.
But these dark thoughts
Are lost in knots
Of tangled, wrestless fear.

Fear of death is not so great
At times like this, they say.
But up and down
The clangings sound
And we are ones to pray.

We dream awake throughout the night
Of moments passed quite dear.
For the future holds
Within its folds
A laugh as well as a tear.

No moon shines down on our small "town"—
A "can" on the briny sea,
Whose bow is covered,
By water smothered,
And we plunge on to lee.

We've mustered all the power we have
To carry us through this wrath
Of writhing foam
That is our home:
We've stepped in horror's path.

Technical News Television

Westinghouse Editorial Service
Television, like motion pictures, depends for its animated reproduction upon a common and well-recognized optical characteristic, persistence of vision.

This is the condition which causes the human eye to retain its impressions of any scene for a trifle of a second after the actual scene has been removed. Its simplest demonstration is in the continuous circle of light seen when a glowing cigarette is whirled rapidly in the darkness.

Lines are traced, or scanned, by electronic action and each represents the exact degree of light or shadow occurring at every point along its path across the face of the picture.

Because picture quality improves as the number of lines employed to record its detail is increased, present day television operates on a basis of 525 lines to each frame. This means that to transmit a single second of television 15,750 lines must be scanned at the sending location and a like number of lines must be recorded simultaneously to reconstruct the picture on each receiver.

Actual transmission by radio carrier of the electrical energy descriptive of any scene does not differ radically from any other type of ultrashortwave broadcasting. It is this translation of light-and-shadow detail into terms of electrical energy transmittable by radio carrier—scanning—which poses television's greatest problem.

These limitations were retarding television development when, in 1923, Dr. Vladimir K. Zworykin, Russian-born scientist then employed as a physicist in the Westinghouse Research Laboratories at East Pittsburgh, applied for a patent on an electronics-beam television pickup which broke the bottleneck of mechanical scanning by making possible new and phenomenally high scanning speeds. This system led, after extensive development, to the Iconoscope—seeing eye of the modern television camera.

But then a lull, so suddenly,
Springs from this raging mass.
And once again
Amid the rain
The storm completes its pass.

Calmness reigns upon the sea
Now that all is done
We've spent the night
In a blinding fright
But best of all we've won.

Now on to battle foe of man;
The waves dash high no more.
Our courage is here,
No foe we fear
On any nearby shore.

We wait for the day for this hell to end,
And we no longer shall roam
Upon the sea
Of uncertainty
And head for that placed called "home."

ENS. JAMES I. DONOHUE, U.S.N.R.

Six years later, in 1929, while still in Westinghouse employ, Dr. Zworykin demonstrated a second basic television development. This was the Kinescope which eliminated mechanical scanning from the receiving operation as well and established television as an all-electronics science.

Within the Iconoscope the image to be televised is converted into electrical energy by action of a pin-point stream of electrons. These minute negatively-charged particles are shot from a tiny nozzle and directed against a plate, known as the mosaic, on which the image has been focussed by the camera lens. Both nozzle and mosaic are a part of the Iconoscope and within its vacuum.

The stream of electrons is made to move across the mosaic from left to right, forming one scanned line with each passage, and each successive line is started a trifle lower on the left edge of the plate. The action is much like that of a stream of water from a hose directed from left to right against the horizontal boards forming the side of a shed, and lowered one board at a time.

Face of the mosaic is made up of thousands of tiny photo-electric cells—each perfectly insulated from its neighbors and each forming one plate of a multiple condenser using a common second plate.

As it moves across the mosaic, the electronics stream causes each successive cell to discharge stored electrical energy—through its common second plate—in varying amounts according to the exact light-and-shadow detail which occurs in its particular part of the lens-image. It is these charges—amplified many times—which are modulated on the radio carrier wave for transmission.

This light-and-shadow detail shows through the fluorescent coating, reconstructing the original scene on the outer face of the funnel-like head of the Kinescope, which becomes the viewing unit in direct contact receivers. In projection type models lenses and mirrors are employed to enlarge this image for showing on a screen or ground glass.

Over the Hill

By George Fritz

In spite of almost overwhelming pressure, by all who read or print the TECH NEWS, to discontinue this column, the shortage of writers has once again proved to be the deciding factor, and for the fourth monotonous term I will sit in my room and type sentences that only the proof reader (they draw lots down at the office to see who is forced to do the job), my mother, and the misguided, bother to look at.

Since the last issue rolled from the press, almost a month has passed, a school year has passed, and numerous transformations have come to pass here on the Hill. Stratton Hall, known as the Rabbit Hutch or the Black Hole of Worcester, has begun to collect dust just as it did before the "Black Mark System" was introduced, and according to Phil (If you have any bum dope, I'll spread it) Duffy, it may be used by the infantry as a model in foxhole construction. In the line of competitive endeavor, Coach Stagg has come out with the radical statement that his offense is to be built around running and passing this year. All he has to say now is that the defense will be built around tackling, and we will know that a new era has set in at W.P.I. Runniger has been quoted definitely on the fact that he will not go out for the team this year.

Prior to the last leave, scuttlebutt was thicker than a Locke stew. According to those who indulge in the gentle art of origination, we were to get liberty until 2300 Wednesday; we were to get liberty until 2300 on Sunday; we were to get liberty every day from 1600 to 2000; we were to have all night liberty every night; we were to have liberty four days out of the seven; we were to go to class only on weekends.

Aside from those concerning liberty, the following choice bits of propaganda were compiled: beer was to replace coke in the machines; on Thursdays and Fridays sport

coats were to be worn with our whites as part of a conditioning program to prepare us for the return to civilian status; food was to be served in the chow hall; A. J. Staples was to adopt horticulture as a full time occupation; a twenty-three hour course called "Sexology" was to be part of the required curriculum; the Boynton was to be declared part of the station.

Admitting that some of the above seemed slightly far-fetched, there was still a widespread feeling of disappointment in the net yield. Lieutenant Brown, looking up from his stop watch and telling us that we were late for a change, announced, "Liberty on Wednesday will begin at 1600 instead of 1630."

Memoirs of Leave:

There days spent in the county jail for being caught building a dam below town to create an artificial flood.

Met a lot of the old gang in the local pool hall. Most of them had service bars. One guy had the Silver Star and 138 service points. Another had the Distinguished Flying Cross. One of my best friends has the Congressional Medal, three shrapnel wounds in his legs, and a pistol stolen from a German officer. After a lot of coaxing, I let them see my certificate with Frank Grant's signature proving that I am a third class swimmer, an EE report with a grade of double plus, a puncture wound received while working a pair of dividers, and a whiskey glass stolen from Tilly's.

TC

At the close of the recent rushing period, Theta Chi fraternity pledged the following men of the Class of '49C: John J. Decoulus, Paul C. Holden, Prescott Jones, Bernard R. Koonz, George E. Saltus, Edmund R. Taylor, and Richard E. Snyder. A pledge dance is planned for next Saturday at the chapter house.

Time for a get-together... Have a Coke



...or making the party a success

It's easy to plan a date at home when you have frosty bottles of Coca-Cola in the refrigerator. Have a Coke says the hostess, and the affair is off to a flying start. To young or old, this friendly invitation opens the way to better acquaintance, adds zest and enjoyment to entertaining. From Alabama to Oregon, Coca-Cola stands for the pause that refreshes,—a way to make folks feel at home.

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