



TECH NEWS



Volume XLI

Worcester Polytechnic Institute, Worcester, Mass., Tuesday, March 18, 1947

Number 1

Madcap Entertainment to Feature Tech Carnival Next Saturday

Junior-Senior Skit To Replace Faculty Effort This Year

Freshmen and Sophomores To Compete For Trophy In Traditional Manner

The thirty-first annual Tech Carnival will be presented in the Alden Memorial Auditorium on Saturday, March twenty-second at eight-fifteen. This show is sponsored every year by the Student Christian Association. Skits will be presented by the Freshmen, Sophomore, and the combined Junior and Senior classes.

Three faculty judges will be present to determine which of the plays is the best in the competition between the freshmen and sophomores, and to the winner will go the silver cup presented each year by the S.C.A. The Freshman Class was the winner last year.

The members of the committee in charge of the production are: Irwin Vanderhoof, General Chairman; Paul O'Donnell, Business Manager; and Lou Block, Stage Director. They will be assisted by directors from each class: Roger Perry for the Junior-Senior play, Jack Mullaney for the Sophomores, and Rollie Bedard and Phil Stanier for the Freshmen.

The Freshman skit will be the first one presented, followed by the Sophomore play, and last will come the Junior-Senior presentation. Between the acts, the audience will be entertained by the antics of "Ole" Haltunnen, who will act as master of ceremonies.

The students who are to take part are, for the Freshmen: In the cast: R. Bedard, L. Reynolds, R. Lanphear, S. Leonard, H. Styskal, R. Tegen, G. Wiswell, J. Brierly, G. Pease, A. Marsh, C. Parnagian, D. Thompson, P. Brown, Stage crew: J. Ducharme, J. P. Burgarella, J. J. Burgarella, B. Bailey, J. Cocker, H. Baker, R. Paggett, M. Nisenoff, T. Chaddha, M. Horton, and R. Whitney.

The sophomores have announced a cast composed of many veterans of other Tech Carnivals. In it are Ed Carpenter, Phil Silver, Claude Veraa, Fran Bigda, Dave Brown, Paul Dulong, Gino Santandrea, Burl Watson, Don Weikman, A. K. Richardson, Don Swanson, Frank Wotton, Bob Van Amburgh, Mac Prince, Tom Coonan, Leo Rose, and others whose names were unavailable at press-time. Lighting and effects will be under the direction of Jack Hudson and Paul Feeney.

Tickets for the Carnival are sixty
(Continued on Page 6, Col. 5)

Former German Prisoner Here For Assembly

Dutch Underground Resistance Movement Member to Speak

Henrietta Jacoba Roosenburg of The Netherlands, a former member of the underground resistance movement in her country, will be the speaker at the assembly Thursday morning. She will tell of her experiences in the service of her country.

Early in the occupation of Holland, she enlisted in the underground resistance movement. Sought by the Gestapo because of her activities in helping the Jews and helping edit an underground paper, she went into hiding for a time. She then became a responsible courier, carrying military and political information into neutral and allied countries. In March, 1944 she was arrested by the Gestapo in Belgium. After months of interrogation, she was condemned to death for espionage. Her execution was stayed and she was transferred to Germany and confined to various concentration camps until liberation came in May, 1945.

Thursday Class Schedule

First Period	8:00—8:40
Second "	8:50—9:30
Third "	9:40—10:20
Fourth "	10:30—11:10
Assembly	11:25—12:15
Afternoon Classes	1:30

ASME Plans Term Activities

Interesting and educational topics of prevailing interest are the keynote for the future programs of the American Society of Mechanical Engineers, which are being planned by President Jack Williams with the assistance of Bill Jaegle. A banquet with one of the country's outstanding educationalists and scientists as main speaker will highlight the semester's activities.

For the meeting of March 27, Everett S. Lee of the General Electric Corporation has suggested a possible list of speakers from his organization. These include C. W. La Pierre, speaking on "A Streamlined Engineering Development Organization, Theory and Practice"; R. H. Norris discussing "Heat Transfer Surfaces, New Ways to Improve Their Coefficients"; and D. H. Marquis on "Highly Loaded Bearings for Speeds at 25000 RPM and Above."

1947 Peddler Will Be in Process by End of March

Those Who Want Books Reach Representatives Through Peddler Box

By the end of March, material for the 1947 *Peddler* will be at the printers and in process, according to the *Peddler* staff. Two sections of the book have been in process over a month already. It has always been the policy of the *Peddler* not to describe the book before it is distributed just before graduation. In accordance with this tradition the staff says that we'll have to wait until June to know what it will be like. They do claim, however, that the 1947 yearbook will be the best in recent years.

Before going to press, the *Peddler* staff wants to be sure that all who want to buy a book have made their dollar deposit. If you haven't been approached by a member of the circulation staff and would like a 1947 *Peddler*, leave a note in the "P" Box as soon as possible so that a *Peddler* representative may contact you. In the note, be sure to tell where you can be reached.

Camera Club Plans Series of Lectures For Beginners

Next Thursday afternoon, March 28 at 4:15, the first meeting of the Camera Club of the current term will be held. At this meeting plans for the coming term will be discussed.

These plans include a series of lectures on basic photography for all interested students, whether or not they are members of the club. These lectures, which will be given by members of the club, are not particularly technical, and are designed for beginners in photography. The series will include (1) How a camera works, and different kinds of cameras, (2) Film developing, (3) Printing and enlarging, and (4) A general lecture on composition and the mounting of prints.

In addition to these basic lectures, discussion on portrait techniques will be held for a few meetings, to be followed by a "model night", in which members will be given a chance to try their hand at taking portraits. Also, the regular print competitions will be held, and the winning prints exhibited in the showcase in Boynton Hall.

During April, the club will exhibit some prize winning prints which are to be borrowed for the purpose from "The Camera" magazine.

Forty-four Countries Represented in New Strengthened Cosmopolitan Club

Debaters Make Plans For Coming Season

Dorman and Oletz Take Part in Thrilling Debate Against A.I.C.

In order to make arrangements for the coming Spring Term, the Worcester Tech Debating Society held a business meeting in the Commons Room of Sanford Riley Hall on February 11. There, before a half dozen members, the minutes of the previous meeting were read in which the results of the Worcester Inter-Collegiate Debating Tournament were announced: Tech placed itself third in this event. Following the reading of the minutes, the members elected a committee consisting of Messrs. Picard and Kahn to look after the matter of procuring charms for the Society.

On Tuesday, March 11, the Society held its first meeting of the new term. Although attendance at this meeting seemed to diminish in size, those who were present seemed to reflect the enthusiasm that was displayed at similar discussions held with opposing Colleges. Therefore, it may prove interesting to attend these debates, and participate in them by joining the Debating Society.

For those who desire more information pertaining to the calendar of debates, Worcester Tech has a tournament with Worcester State Teachers College on Tuesday, March 18. The subject to be discussed is: Resolved: That labor should be given a direct share in the management of industry. Mr. Robert Lerner and Mr. Allan Glazer will take the negative view point. Two weeks hence on March 31, Tech will battle wits with Springfield College on a subject pertaining to the Federal Government providing medical care to all citizens at public expense. The most widely disputed question for certain Tech men will be discussed on March 20, at the next meeting of the Debating Society. It concerns compulsory military training for men between the ages of eighteen to twenty-one. Attend this meeting and have your future predicted.

On the evening of March 14, 1947, Henry Oletz and Bill Dorman represented Worcester Tech in a very close, stirring debate held with Springfield's American International College. Springfield's clever delivery and new affirmative approach to the debate resolution, Resolved that labor should be given a direct share in the management of industry, won the debate for them.

Next Meeting To Be Held In Alden On March 24, Following One in April

"Above all nations is humanity." With this as its motto and under the able guidance of Professor Schiefley, the Faculty Advisor, the Cosmopolitan Club is now steering a steady course, after its war-time relapse. Regardless of race or creed the club welcomes all foreign students and foreign born Americans.

With the advent of a postwar rush of foreign Students, the Club's membership has rapidly swelled in numbers. Today there is a total of forty-four student members and ten faculty members. It is hoped that an eighty per cent average attendance will be maintained for future meetings.

Twenty countries, encircling the globe, have members in the Club. India leads the field with seven representatives, while China and Turkey vie for second place with four members each.

Since the beginning of the semester a few new faces have been seen on Boynton Hill. Among them are three foreign students. Two of these are post-graduate students from the Allahabad University, India. They
(Continued on Page 3, Col. 1)

Students Urged to Attend Discussions

Prof. Robert Illingworth, Professor of English and head of the Dramatic Department at Clark University, is the leader of a new discussion group sponsored by President Cluverius and arranged by the Student Christian Association. The group met last Thursday for the first time, and will continue to meet for three more weeks, at which time it will be continued if interest is great enough.

This discussion group is held in the Janet Earle Room at 4 P.M. on Thursdays and all interested students are urged to attend. The actual topics to be discussed will be determined by the group and they will include social and religious problems of the present day.

In his first meeting, the Professor had as his subject: "Friendship." The meeting opened with a few words by the Professor, followed by a general discussion. The accent is being placed on discussion rather than lectures.

The S. C. A. recently sent two of its members, Richard Noble and Charles Jones, to the annual Northfield Conference. Present at this conference were S. C. A. members from schools throughout the Connecticut Valley, including Yale, Mt. Holyoke, Springfield and many others.

TECH NEWS

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TERMS

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Under New Management

We are now starting a new term which means a new collection of books, a new hour schedule, a change of instructors each equipped with a fresh supply of those lovely blue exam books, and accordingly with this issue the first of the term, the embryo Hearsts, Winchells, etc. of Worcester Tech are hanging out the "Under New Management" sign. The present seniors who have been most ably holding the reins for the past eight months are now given a well-earned rest as is the custom.

During their tenure of office the Institute has practically completed the transition from a war time schedule to a post war pace of activities. The retiring staff kept in step with the changing times and reorganized the Tech News Association to meet the demands of post war conditions, which was no small task in itself. The combined efforts of the business and editorial staffs turned out an excellent job and speaking for all Tech men, we thank them for their fine work. Speaking for the new staff, we hope we will be able to continue their work and profit by their example.

It seems that with the advent of each new staff a statement of policy is generally expected. Therefore, even though ours does not differ from that of our predecessors, we shall repeat the highlights of our objectives. The TECH NEWS will always attempt to represent student opinion. There is always the best student opinion, and our aim is to print just that. If we have the cooperation of the student body through letters to the editors and other similar means of self-expression, we will be able to accomplish this aim. This is a student publication and as such we will bring to you the news of all campus activities, news of Tech men, and many other items designed to make your school paper complete, accurately informative, and interesting to read. It is hoped that your suggestions will be readily forthcoming and as in the past you are assured that they will be heeded to the greatest extent possible. We want you to be our chief critics and we hereby invite all constructive criticism.

We repeat our thanks to the retiring seniors on the business and editorial staffs and use this as our first opportunity to print our greetings to the faculty, alumni, student body and friends, and we hope you will enjoy your college newspaper.

Radio Club Better Equipment Enabling Amateurs to License

The W.P.I. Radio Club will hold the first meeting of the term next Thursday, March 20, in the electronics laboratory. At this meeting, officers will be elected for the term, and plans for the coming term will be discussed.

In the past term, much has been accomplished on projects designed to improve the club's transmitting equipment, and to help the members qualify for amateur licenses. These projects include a modulation indicator, which has been put into service, and added facilities for code practice, which will enable any member to practice code at any time. Several albums of code records have

been donated by the school, and include records of different speeds to suit the needs of the student. The modulation indicator, which has a two-inch cathode ray tube, shows visually the quality of the signal being transmitted, the percentage of modulation, and phase shift if there is any present.

During the present term, there will be several more projects constructed. Under the direction of Bob Smith, the treasurer of the club, an antenna tuning unit is being built, so that the transmitter may be used on all amateur bands, instead of just the ten-meter band now being used. As soon as warm weather arrives, work will begin on a rotary beam antenna to be constructed on top of the E. E. building.

All interested students are invited to attend this meeting next Thursday.

Fraternity News Bits

By MAL GORDON

Now that basketball games are all over, there is the thought of many students that they will be at a loss for something to do on a Saturday night. Of course there is always the movies or an evening spent with the boys at the Boynton or some other place.

What has been suggested to this writer is more inter-fraternity dances such as what Sig Ep and Theta Kap have been doing for quite some time now. These dances have been a great success and all who have attended have had a swell time. Many Houses would find it very enjoyable to invite another Fraternity over for an evening of dancing and general entertainment. There will no doubt be some Dorm Dances coming up and if more students attended, the dances would be even more enjoyable.

Phi Sigma Kappa

Recent visitors to the house were Dick MacIntyre, who is stationed with the army at Fort Dix, Truman Dayton, who is working for "American Appraisal", and Al Breed, who is working for "General Electric" at Erie, Pa. During vacation several fellows from the house spent three days skiing in New Hampshire. Al Rawdon, Jack Brierly, John Logan, and Don Story were initiated a week before final exams. Plans are now under way for a pledge dance to be held on Saturday, March 29th.

Sigma Phi Epsilon

A house dance was held last Saturday which started the ball rolling for the social events of the coming term. Many couples attended with members of Theta Kappa Phi and their dates as guests.

Brothers visiting the chapter house recently are Hank Tuthill, '33, Helge Johnson, '24, Dick Propst, and Dave Wright.

Alpha Tau Omega

Bob Orrange, '46, is back this term to complete his studies. Bob

was in the Navy and did transport duty in the Pacific.

At the elections in the House March 12, the following men were elected; Robert Manahann, President; Robert Ballard, Vice-President; Norman Whitaker, Treasurer; and Robert Ferguson, Secretary.

The House was host to one of the National Officers last week. Johnny Vann and his traveling companion Brother Whitaker are both from Texas and had a lot to say about their state.

Lambda Chi Alpha

Warren Fitzer, '47, and Art Pike, '48, have resumed their studies at Tech.

On March 22, a number of the Brothers are planning to attend Founders Day banquets at Brown U. and Mass. State.

Alpha Epsilon Pi

Elections were held last term and the following men are the new officers for the coming year: Master, Ed Wainshilbaum; Lt. Master, Al Strogoff; Scribe, Gersh Kulin; and Exchequer, Norm Lourie.

Theta Kappa Phi

At the beginning of this new term, several Brothers returned to the college from the Service. They are Ed Luiz, '49, Joe Lemire, '49, and Neil Sullivan, '50. All were in the U. S. Army.

In recent house elections, the following men were elected to office: Dick Tracy, Civil from Uxbridge, President; Jack "Red" Meade, Chem Eng, from Dorchester, Mass., vice-president; and Paul Evans, ME from Worcester, secretary. All are Juniors.

Theta Chi

Dan McQuillan was elected president of the epsilon chapter last Friday, March 14. Dan is a member of the class of 1949. He has been the Marshall since last Fall. Bradford Dunbar was elected vice president, Don Skeffington was elected secretary, Ken Muccino was elected marshal, and Howard Tinkam is our new treasurer.

On the Saturday following the formal, we had a carnival at the house.

Theodolite Debated At Meeting of Civil Engineers on Mar. 18

The next meeting of the W.P.I. student branch, American Society of Civil Engineers, will be held Tuesday evening, March 18, at 7:30 P.M. in Boynton 19. The main feature of the meeting will be a talk by Mr. Ernest N. Adams of the American Institute of Steel Construction. Mr. Adams will illustrate discussion with motion pictures of engineering interest.

The last meeting of the organization was held on February 11 in B-19. At that time Mr. L. C. Higbee and Mr. D. H. Harkness, representatives of the W. & L. E. Gurley Co., spoke on the various types of surveying instruments. The speakers discussed the care and use of various instruments, and also methods of correction that are generally employed. An interesting feature of their discussion, which was accompanied by illustrated slides, concerned the theodolite, an ultra-sensitive instrument used for measuring angles with a high degree of accuracy. Theodolites produced by American and Swiss manufacturers were compared. It was noted that the American types were comparatively new, because all of these precision instruments were formerly imported from Switzerland, until the advent of World War II cut off the supply.

Following the talk, there was a short period during which the speakers answered questions. There was also a report by the Chairman of the Regional Conference Committee, stating that the A.S.C.E. branches in the Northeastern section are making plans to convene in their first regional conference since the war.

Brother Ole Haltunen told fortunes, Guy Nichols was a weight guessing expert and Claude Veraa sketched caricatures of the guests. Ole answered many riddles and Nick did a good job on the weight guessing, at least he came out ahead.

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Cosmopolitan Club

(Continued from Page 1, Col. 5)

are Messrs. Bose and Mitra. The third new man is an ex-Norwegian Army soldier, Mr. Lund. Among the other veterans from foreign countries are Per Roed of the Norwegian Army and Tsu Yen Mei of the Chinese Air Force. A few members had been under Jap or German occupation, while a few others had lived in front-line countries during the war. Their experiences should provide invaluable material for future meetings.

At the last meeting of the club, as already reported in these columns, a

change in the club policy, that of being purely a discussion group, was advocated. It was suggested that the club field teams in intramural athletics; but the proposition ran into trouble on two counts. Namely, that quite a few members were fraternity men, and that most of the foreign students were not too well acquainted with the games played at Tech. It was finally decided that any team sent out would be of a purely unofficial caliber.

At a meeting of the executive committee held last Thursday, two important questions were discussed and

decided. A plan for more frequent meetings was suggested and it was decided that meetings would be held once every three weeks in the future. The hitch as regard bi-monthly meeting was the fact that the club had no fixed meeting place. The second plan was to amalgamate the foreign students in other Worcester colleges with the Tech organization. This plan fell through because a permanent meeting place, large enough to accommodate all, would be necessary. Unfortunately the club lacks such an abode. However, it was decided to extend invitations to the other colleges for a few of the meetings.

The next meeting will be held on the twenty-fourth of March and tentative plans for a big meeting early in April have been made. The stage seems to be set for a very interesting year as regards the future plans of the club and it's up to the members, now, to make the club a going concern. Let's get on the ball, Cosmopolites!

ON AND OFF THE RECORD

By JACK SAUNIER

It seems to go in cycles,—there's a dearth of good jazz for months, and then all the record companies break out in a rash of righteous and modern swing, mostly by the many new small combos generated by the King Cole influence. Best ones on records are the Joe Mooney Quartet, the Dave Barbour group, Woody Herman's Woodchoppers, and the Page Cavanaugh Trio, the last named being a fairly close carbon of the Cole Trio.

The man of the hour is Joe Mooney, who sings, plays the accordion, of all things, and organizes some of the finest "head" arrangements in jazz. We anticipate his commercial success with mixed feelings; pleasure in being able to hear such a fine outfit playing good jazz, and misgivings that the accordion, in less capable hands than Mooney's, will become a popular instrument with the public. There can be nothing quite so banal as a poorly played accordion. There are very few Phil Bakers in the pop music world and but one Joe Mooney in jazz.

The Mooney Quartet (accordion, clarinet, guitar, and string bass) previously heard only by a few people in Paterson, N. J., was "discovered" by Mike Levin of *Downbeat*, publicized, and resultantly got a good spot on 52nd Street, where their talents could be better appreciated. Decca signed them, and to date has released two excellent recordings. First out was a typical Mooney revamping of an oldie, *Just a Gigolo*, and the pop-

ular *September Song*, followed by *Tea for Two* and *Warm Kiss and Cold Heart*. Best side, showing the outfit's facility, humor, and musicianship, is *Tea for Two*, which mixes some wonderful lyric switches ("Do you long for oolong like I long for oolong") with a light bouncing beat and some original harmonic ideas in the instrumental portions of the record. The singing style is reminiscent of the old Lunceford Trio on such classics as *My Blue Heaven* and *It Had to Be You*, although Mooney's outfit is all white. Mark the Joe Mooney Quartet for a success on the juke boxes almost matching that of the King Cole Trio.

The Peggy Lee-Dave Barbour combination comes through again with a lovely ballad, *Speaking of Angels*, and a mellow rhythm treatment of *Swing Low, Sweet Chariot*, featuring Ray Linn's muted and marvelous trumpet as well as Peggy's voice and Hubby Dave's impeccable guitar work. La Lee gets a clarity and swing on this side that is in the tradition of Mildred Bailey, and which marks Peggy as the logical successor to the Rockin' Chair Lady.

We have one more rave left for this week, and it's about an Artie Shaw record. Victor, wonder of wonders, has put out a limited reissue of the twelve-inch pairing of *Summertime* and *The Maid with the Flaccid Air*, (no apologies to Debussy) and these two sides, both Eddie Sauter arrangements, are just about the last word in big-band jazz.

CAMPUS RAMBLINGS

By MYRON LUNCHICK

Reluctantly returning from seven days of freedom, we look dubiously forward to enjoying another term at "The Hill". Although the snow is gone, those hardy climbers of West St. and the hill to Boynton Hall still wish for and happily picture for themselves a marvelous escalator which will swiftly and effortlessly carry them up the hill. This improvement is not infeasible by any means. If the Institute cannot appropriate enough money, the next freshman class can always be enslaved to cut down on labor costs. Since at this school the freshmen as a rule have plenty of leisure time, they might as well while away their surplus time in healthful body-building work, and, perhaps, receive additional credits in phys. ed. for it.

However, such a plan will probably never be enacted; so trudging up West St. we enter Boynton Hall where, muttering prayers under our breaths, we approach the mail boxes and stealthily put our hands into the individually lettered boxes in search of our grades. Overcoming our disappointment at finding them, we resign ourselves to our fate and slowly open our envelopes. Others like our-

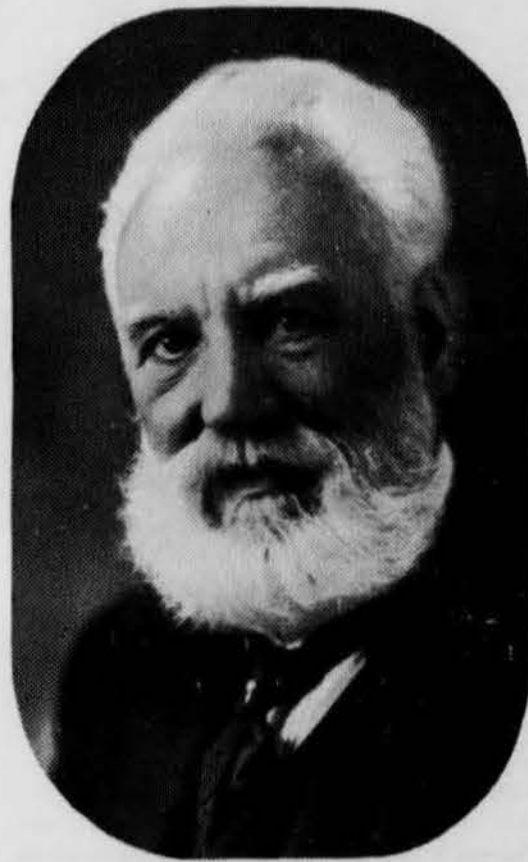
selves follow suit and immediately the air is vent with huzzahs and hallelujahs of the triumphant, mingled with the piteous wailings and laments of those who fell by the wayside. Others are merely paralyzed and numbed.

Having laboriously completed the registration form, we trot gingerly downstairs to look over our schedules. First acquiring a few schedule forms, we flay and fight our way through the mob to where the various schedules are posted. There we find fellow classmates who cry on our shoulders upon learning they have four classes on Saturday, or happily slap us on the back upon learning that Monday from one to two is free, inviting us to indulge in future games of pool in S. R. H. during those hours. After transcribing the schedules on the forms, we enter into lengthy discussions about the advantages and disadvantages of the schedule finally arriving at the usual conclusion that it is the worst one ever had, cursing the makers thereof to an eternal life of fire and brimstone.

That done; we trudgingly creep to our first class. Gloom pervades us, for we are back to the grind again. Thus, we continue disconsolately year after year looking forward to commencement as our shining goal, which grows nearer and more desirable with every year.

100th Anniversary of the Birth of Alexander Graham Bell • March 3, 1947

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12 SAE Chapters Meet at Sheraton

The twelve New England chapters of Sigma Alpha Epsilon held their first convention since 1941 in the Sheraton Hotel Friday, March 14 and Saturday, March 15. The local chapter was sponsor of the convention.

Other chapters in the fraternity's New England province are at the Univ. of Conn., Univ. of Maine, Boston Univ., Harvard Univ., Mass. Institute of Technology, Mass. State College, Dartmouth College, Univ. of New Hampshire, Rhode Island State College, Norwich Univ., and the Univ. of Vermont.

Registration and convention sessions at the Sheraton during the day, Friday, were followed at 8 p.m. by a smoker at the local chapter house.

After further sessions starting on Saturday morning, a ritual took place at 4 p.m. in the Hotel Sheraton, conducted by Charles F. Collins, past national president, and the officers of the local chapter. Harold Arthur Schmucki, Henry S. Coe, Daniel J. Harrington, Jr., and Stearns H. Whitney, Jr., were initiated. A banquet at 6:30 p.m. was followed by a formal dance.

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This Collegiate World

(By Associated Collegiate Press)

During the showing of "The Merchant of Venice," recently at the University of Texas, some wiseacre, after the final curtain, stole the show with cries of "Author, Author."

The guest who came to stay was Patrick Kane, University of Minnesota Arts sophomore, who ambled over to the Health service to visit a friend confined there with a fractured skull. On the steps of the Health service, Kane tripped and fell, fracturing his elbow. He was promptly moved into the room next to the friend.

"I hadn't planned to stay this long!" said Kane as the nurse adjusted his bandages.

With the approach of final exams, the Syracuse Daily Orange ran an ominous article which may or may not have influenced the semester

grade curve. It told how at the 700-year-old University of Naples in Italy a group of students recently beat their professor with an iron door handle because he had not given them passing marks in their examinations.

The students were all vets of the Italian army. The brawl forced authorities to close down the University, which is one of Europe's most ancient institutions.

Some days are just harder than others, decided Mrs. Kathryn Blackwell, librarian at Macalester College in St. Paul, Minnesota, after perusing and perusing the following note found attached to a library card.

"John Adams had the book signed by R. D. Schmidt. R. D. Schmidt had the book signed by John Adams. Adams renewed the book which Schmidt had, and now Schmidt should

renew the book Adams had. Tell Schmidt that Adams owes him 22 cents."

Mrs. Blackwell is still dubious.

The Deans of Women receive many strange requests, as evidenced by the following, submitted in all seriousness to one of the Deans of an eastern college.

"Lost—One girl on the bus to Watertown. Description—Hails from Massena, N. Y. About 5 feet 3 inches tall, brunette, blue eyes, wears glasses, about 110 pounds. Sentimental value. Please return."

There is one T. C. U. professor and student who have more than a class in common—they share a bombing.

Recently, Dr. Walther Volbach of the university's department of speech-drama was telling of the bombing of his home town of Mainz, Germany, by a group of U. S. B-17's.

The target was a nearby munitions plant, but, due to bad weather, some of the bombs hit the town, destroying the professor's house.

After class, a student, Nick Dear of Fort Worth, had a story of his own for the professor. He had led the B-17 attack that night on Mainz.

Porter R. Bahm, 54-year-old junior in the College of Agriculture at Louisiana State probably isn't breaking any record and he isn't asking for any credit, but he does get up at 4 a.m. and bikes 50 miles to class every day.

It takes him two hours to make the trip, unless the early morning fogs give him some particularly bad moments.

"I hope to graduate in '48," he says, "and then settle down to running the farm and caring for my mother. I don't think I'll want to do any more biking."

Du Pont Digest

Items of Interest to Students of Science and Engineering

The Synthesis of Nylon



Chemists of original nylon research team honor memory of Dr. Carothers at the dedication. They are: J. W. Hill, Ph. D., M. I. T. '28; H. B. Dykstra, Ph. D. Ohio State '27; G. J. Berchet, Ph. D. Colorado '29; J. E. Kirby, Ph. D. Iowa State '29; E. W. Spanagel, Ph. D. McGill '33; D. D. Coffman, Ph. D. Illinois '30; and F. J. Van Natta, Ph. D. Michigan '28. Dr. Carothers received his Ph. D. from Illinois in 1924.

Recently the Nylon Research Laboratory near Wilmington was dedicated as "The Carothers Research Laboratory," in honor of the late Wallace Hume Carothers and his classical researches on the structure of polymers, the mechanism of polymerization, and the invention of nylon.

In 1928, a group of chemists under Carothers began a study of polycondensation which led eventually to the discovery of nylon. The project was part of a program of fundamental research to discover scientific facts which might be of eventual value in laying a foundation for applied research.

As the first point of attack, they chose the condensation of dibasic acids with glycols and reaction materials which would preclude the formation of rings. They obtained linear polymers of molecular weights between 2300 and 5000.

Molecular Weights Increased

After two years, a significant advance in linear polymer preparation was achieved. Through the use of the molecular still, it was possible to obtain materials of molecular weights between 10,000 and 25,000, which, when molten, could be drawn into filaments.

More important, the cooled superpolyester filaments could be further drawn into fibers several times their

original length and thereby acquired luster, tensile strength, elasticity, pliability, and toughness much greater than the initial polymer. In contrast with ordinary textile fibers, their tensile strength was unchanged by wetting.

The striking properties of the fibers aroused the hope of finding a commercial fiber from some type of linear superpolymer. Investigation showed, however, that fibers from the polyesters were too-low melting and too soluble for textile purposes. Mixed polyester-polyamides were also not of interest in this category.

Research on Fibers

The possibility of a commercial fiber development seemed remote, but the intuition that frequently accompanies research genius prevailed, and Carothers was encouraged to direct his research on superpolymers specifically toward spinnable fibers. A polyamide from 9-aminonanoic acid gave a fiber of 195°C. melting point, equal in strength to silk, and clearly indicated the possibility of obtaining a material for fibers of commercial utility.

In 1935, the superpolymer from hexamethylene diamine and adipic acid was first synthesized. It melted at 263°C., was insoluble in common solvents,



Dr. Wallace Hume Carothers

1896-1937, was the first organic chemist in industry to be elected to the National Academy of Sciences. During his short scientific career he made contributions that have greatly enriched American life.

tough, elastic and had the best balance of properties and manufacturing costs of any of the polyamides then known.

A third period of research covered commercial development. The task was enormous, and to reduce to a minimum the "time between the test tube and the counter" a large force of some of the most competent chemists, physicists, chemical and mechanical engineers available was assigned to the project. The story of the manufacture of nylon will be told next month.

Questions College Men ask about working with Du Pont

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SPANNING THE SPORTS

By BILL JULIAN

Washington's Birthday found little cause for celebration here at Tech. Not only were finals in full swing, but that eve the basketball quintet dropped its final game of the season to Wesleyan. This marked Tech's eleventh defeat of the season as against three victories. Despite their unimpressive record Tech flashed good ball, but just weren't in the same league with R. P. I., Trinity, Springfield, and Brown. Lack of a consistent scorer and poor second-half play spoiled their chances in numerous games. However, only reserve Frank Gross will be lost to the squad by graduation and next year's club should be a much different story. With this year's entire varsity coming back intact for next year plus capable reserves due up from the Jayvees, Tech should be able to field an experienced and smooth functioning team which will cop its share of victories.

Coach Frank Grant and his natators had even less success than the basketball team. The swimming team closed their season with M.I.T. here on March 8th by dropping their sixth straight meet.

The indoor track team coached by Frank Sanella entered in both the K. of C. and the B.A.A. relays in Boston. They took no ribbons as a team, but Mac White turned in glittering individual performances in every meet.

With Ol' Man Winter definitely on his way out, Coach McNulty is already thinking in terms of baseball. Battery men are due to report Wednesday in the gym for their initial workouts, with outdoor practice for the entire squad to start just as soon as weather permits. Last season Al Haggood had to do most of the mound duty which was a heavy chore. Any nine needs at least four hurlers, so let's have everyone with pitching ability out there together with the catching candidates on Wednesday. Coach McNulty asserts that every position on the team is wide open, so, again, get out there and win a varsity berth.

In the interfraternity sports world, Sig Ep after leading the field from the start came through in stellar fashion to cop the bowling trophy over the strong Theta Kap keggers. Sig Ep's final match found them pitted against TKP with the championship and trophy resting on the outcome. With Strunz, Melden, and Seagrave rolling in the high nineties, SPE surged ahead to a 4-0 victory and the cup. This win coupled with their other first in tennis and second in the relays, definitely marks Sig Ep as the leading contender for the athletic trophy currently held by Theta Kap.

Interfraternity basketball is now a week along and it looks at the moment as though TKP, SAE, and PGD are the teams to watch. SAE flashed a lot of power in scuttling LXA, and TX fell surprise victims to an underestimated Phi Gam outfit. TKP won both of their games to date the hard way, pulling them out of the fire in the last few minutes to win 25-24 and 27-25 over ATO and SPE respectively. It is still far too early to make predictions other than that the competition will be keen all the way, for judging from the games and scores to date the houses are all pretty even with no house a standout.

Tech Swimmers Sunk Again

The Tech swimming team finished up with another dose of the hard luck which has dogged them all season. The tank squad was handed a 60-15 licking by a strong and well balanced team from M. I. T. The Engineers from Cambridge took all

nine of the firsts, four of the seconds and two of the thirds. Pete Kahn was second by inches in the 200-yd. Breaststroke and Olson and Haltunnen finished second in the 60 and 220-yd. freestyle events. Due to the lack of depth on the Worcester team most of the men had to enter several events. The highlight of the event from the crowd's point of view was the demonstration of a ball point fountain pen's ability to write under water by the manager of the M. I. T. team. The boys from the big city took the honors in comedy and swimming and their girl friends in the gallery were a bit of alright, too.

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Intramural Basketball Off to Fast Start

Interfraternity basketball got off to a fast start in the first week of play leaving but three teams on the undefeated list. Opening day found SPE making a strong second half comeback to come through with a hard-earned 31-26 victory over PSK. Fine set shooting by Seagraves and Besseliver featured SPE's second half drive. Rehrig played a fine game for PSK and was especially effective off the backboards. Seagraves with 11 and Besseliver with 10 were the high scorers. TKP took a lead from the start and then seemed to come apart as ATO drove back hard but couldn't quite catch the TKP club which hung on to win 25-24. Wheeler of ATO played a steady game for ATO and led all scorers with 9.

In the second round SAE led by Hopkins with 16 points turned in an easy triumph over TX which just couldn't seem to find itself. SAE looks like one of the strongest teams in the competition. PGD jumped into an early lead over LCA and managed to lead all the way coming up with a 22-19 win. Roberge turned in a fine floor game for PGD and in addition chipped in with 7 points. Thomas of LCA was outstanding and looks like sure fire varsity material. The LCA club, however, just doesn't have the players to click with Thomas' fast style of play.

AEP and ATO engaged in a spirited contest which was decided in the last few minutes by the accurate shooting of ATO's Wheeler. Ringel and Green turned in fine games for AEP and were mainly responsible for keeping the game so close. Wheeler's 9 points were high for the game and brought ATO a 24-20 victory. The TKP-SPE game turned into the best game of the series. SPE, a pregame favorite on the basis of its showing against PSK ran into a scrappy TKP club which repeatedly came from behind and finally eked out a 27-25 win. A close zone defense by TKP effectively shackled the high scoring of Seagraves and Besseliver but Melden came to the forefront to give a remarkable first half exhibition of set shooting which threatened to break the game wide open. Evans and Ventres carried the TKP club to a first half 14-14 tie. The second half was fast and furious with the set shots of Wotton finally bringing victory to TKP. Melden had 10 for the losers.

JUNIORS CAPTURE TITLE IN INTERCLASS BASKETBALL

Freshman Class Defeats Varsity Laden Sophomores; Juniors Led by Bradlaw Takes Seniors by 7 Points And Go On to Defeat Sophs 34-28

By HAROLD OKUN

An exciting two-day basketball festival wound up Tuesday with the class of 1948 taking the crown. All three games, the two preliminary games between Seniors and Juniors, the Frosh and Sophomores, and the final decisive contest were very easy to watch because most of the teams had in their ranks men who had carried the colors of W. P. I. against other colleges in the season just past. Practically the whole first string showed up with one class or another and the junior varsity team made a more complete showing.

In the first game the Juniors set down the '47 men by a margin of 7 points, 32-25. This game got off to a fast start when Roger Cromack of the junior squad dropped a counter in the early minutes to put his team ahead. John Concordia followed suit from mid-floor with a one-hand push shot that set the juniors further in the lead. From then on it was Cromack and Concordia alternately pushing the squad ahead. It really looked dark for the Seniors as the half ended with the younger squad more than doubling the Senior score.

The second battle of the day saw the Frosh knock over the Sophs in a major upset. The talent on the Sophomore squad was not enough to whittle down the size and fight of the towering '50 team. With material such as Jerry Fleit, George Barna, and Johnny Adams, the frosh succeeded in pulling out a 14-13 lead as the first period ended. George Barna was perhaps the fastest moving man out on the floor, fighting every point of the way to help push the '50 club to victory. On the other side of the picture tall Russ Norris really found his eye in sinking 6 baskets to cop honors of high scorer for the day while his teammates Steve Ucich and Bob Carlson succeeded in dropping two apiece in an attempt to put the '49er's out in front. Although there was some good individual play in the game, as a whole it was rather loosely played. Passing was way off and intercepting was very prevalent.

The following day found the Frosh and the class of '48 roughing it up for the school championship. In this tourney not one man participated that hadn't worn the colors of the school this past season. It seemed as

though Coaches Stagg and McNulty had taken their forces and dumped them into a mixer and then proceeded to field clubs consisting of a mixture of varsity and junior varsity ballplayers. In this game, varsity center Roger Cromack was faced with the difficult task of trying to shake himself loose from two men, who apparently had been assigned to keep equal space between him, the ball, and the basket. It was not until late in the first half that Cromack could make use of his height and accuracy to aid the Junior cause with four floor goals and two free tries.

Guards Bradlaw and Concordia did much to keep the team down to a cool tempo, and also to enlarge the gap by scoring two hoops each. Art Collins and Al Raymond each hooped a series of baskets to keep up the pace. Little Buddy Dember ran around the floor, playing like a pro, but was unable to shake himself clear; however, he was very instrumental in setting up a number of hoops.

The Sanford Riley men fielded but five men throughout the whole struggle, but they were all able and rangy men. Adams, Fleit, and Barna are each over the six-foot mark and, while Converse and Collings aren't, their terrific speed and ability more than make up for their lack of inches. The big gun for the '50ers was definitely Johnny Converse. His skill and accuracy with the leather netted him four loops and one free throw. Bill Collings also succeeded in throwing a total of nine points. The final score was 34 to 28, the Juniors running off with the title for 1947.

Class Game Final JUNIORS (1948)

Player	B	F	P
Dember	0	0	0
Collins	3	0	6
Cromack	4	2	10
Concordia	2	2	6
Bradlaw	2	2	6
Raymond	3	0	6
McCormick	0	0	0
	14	6	34

FROSH (1950)

Player	B	F	P
Converse	4	1	9
Collings	3	3	9
Adams	2	2	6
Fleit	1	0	2
Barna	1	0	2
	11	6	28

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TOILETRIES

BASKETBALL TEAM ENDS DISMAL SEASON WITH LOSS TO WESLEYAN

This past basketball campaign, Tech experienced one of its worst seasons since it started playing the game. When the season was over, the scorebook showed a record of eleven losses against three wins. Bob Carlson, Steve Ucich, and Russ Bradlaw, regular lettermen from the previous season were available, while Rog Cromack, John Concordia, Al Raymond, Russ Norris and Frank Gross, from previous J.V. squads also reported. In addition newcomers Jim McKernan, Bill Collings, Art Collins, Jack Adams, Jerry Fleit, and George Barna contributed their talents at various times during the season.

At the start of the season, Carlson, Ucich, Bradlaw, Cromack, Concordia, and Norris divided the majority of the scoring play. The opening game was against the Springfield Gymnasts, and they completely outclassed the Techmen 66-39. It was at this time that the Boynton Hillers lost the services of veteran Steve Ucich when he became sidelined with a broken hand. In the next two games, the Techmen won a pair of thrillers, edging Mass. State 59-55 at Alumni Gym and defeating Northeastern 40-36 at the Huskies' court.

The first game after the holidays was against Woody Grimshaw and Co. from Brown University. Woody collected 20 points and broke the Brown all-time scoring record that night as Tech was drubbed 64-37. Tech's next game was in Springfield where the A. I. C. cagers defeated them 65-55. In this game, Bob Carlson made his best offensive showing as he hit an individual high of 29 points with his sensational hook shots.

The next game found Tech host to a then undefeated Trinity five. After enjoying an early lead, the locals fell apart and the Hartford team emerged victorious 54-38. The following Saturday found them in Troy, N. Y. against R. P. I. Before a capacity crowd, they were routed by the New York Engineers 77-41. The following game found the Stagmen losing their fifth in a row 51-38 to a fighting Pratt Institute quintet. Steve Ucich, returning to his old form, starred on defense while he tallied 15 points. The next game found the engineers in Amherst where they were thumped by the Lord Jeffs 60-42. The next encounter found us host to Boston University on our formal weekend. It was not the Friday night hangovers, but it was the superior play of the Terriers that enabled them to emerge victorious 65-35.

Tech tried to shift its offense to a double bucket system, and Jim McKernan was brought up from the jayvees to team up with Rog Cromack. It started to work fairly well against Tufts at Medford with the engineers enjoying a half-time lead for the first time in many games.

Thus ended Tech's disastrous basketball campaign. With Frank Gross the only senior on the squad, one may hold a slightly optimistic look as far as next season is concerned. John Concordia stood out all year as the dependable playmaker on the squad. Carlson, Cromack, and Ucich, at times showed signs of offensive greatness, while newcomers Jim McKernan, Bill Collings, Jack Adams, George Barna, and Jerry Fleit have shown definite promise that they will be heard from in the future.

S.P.E. Victorious In Intramural Bowling Matches

In the last match of the competition between the two top teams the pin-smashing SPE club rolled to a 4-0 victory over TKP. This match decided both first and second places. The hot bowling display kept the overflow crowd of Sig Eps and Theta Kaps cheering throughout the entire contest. But Sig Ep was too hot for the good Theta Kap team and the win gave SPE undisputed first place in the league.

SPE had clear sailing in the tournament until their match with PGD, which was won easily by the latter 4-0. SAE and LXA fought to keep out of the cellar position in their last match. When the pins had ceased falling, SAE was on top 3-1. The PSK vs. TKP match was a thriller. When the scores were totaled for the second string, a tie was found. With heads-up bowling on TKP's part, they came through to win. This gave them a well-earned 3-1 win. PGD hit a good team in their seventh match. This group went on to win their last three matches from LXA 4-0, SPE 4-0, and TX 3-1.

In the final standing SPE ruled

with a record of 26 wins and 6 losses. TKP and PGD ended in second and third places respectively. During the last week none of the teams changed positions.

Russ Larson's 127 single rolled early in the season was the high string of the tournament. Sig Ep placed three men in the "Big Ten" averages, but top honors went to Frank Powers of PGD.

George Strunze of SPE captured the high three string total with a lusty 312. This total topped PSK's Don Shattuck's 307. PSK's early high team single of 399 was not topped. SPE also had the high team total of 1123.

The individual leaders of each house are as follows: Powers, PGD, 92.9; Melden, SPE, 91.0; Moltenbrey, ATO, 90.8; Shattuck, PSK, 89.8; Woodman, LXA, 89.4; Julian, TKP, 88.2; Turner, TX, 88.1; Gordon, AEP, 87.2; and Johnson, SAE, 86.1.

FINAL TEAM STANDINGS

1. Sigma Phi Epsilon	26	6
2. Theta Kappa Phi	21	11
3. Phi Gamma Delta	19	13
4. Alpha Tau Omega	17	15
5. Alpha Epsilon Pi	16	16
6. Phi Sigma Kappa	15	17
7. Theta Chi	13	19
8. Sigma Alpha Epsilon	11	21
9. Lambda Chi Alpha	7	25

Announcement

All pitching and catching candidates who plan to try out for the battery positions on the 1947 Tech baseball team are requested to report to Coach McNulty at his office in the gymnasium, Wednesday afternoon at 4:00 P.M.

Tech Carnival

(Continued from Page 1, Col. 1)

cents per person and may be obtained at the Fraternity houses, at the Tech canteen in the Gym, in room 112, S. R. H., and at the door. Part of the proceeds from the show will be contributed to the World Student Service Fund, which helps students in war-torn countries.

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