

TECH NEWS



Volume XLII

Worcester Polytechnic Institute, Worcester, Massachusetts, Tuesday, January 20, 1948

Number 6

Tech Concert Band Will Give Lively Program at Assembly

'Circus Parade' Is Featured Number On Program

In an effort to familiarize the Tech student body with the accomplishments of its musical organizations, the S.C.A. has selected for its eighth assembly a program by the Tech band, which includes everything from callopie to classic. The band, which under the able leadership of its director, Bill Lynch, has made such a fine showing at athletic events, will undoubtedly distinguish itself again.

The feature selection will be "At the Circus", a medley of traditional circus melodies. "Tech Carnival" Sheehan will be your barker on the midway. There will be everything to bring you back to the water-carrying and under-the-tent-flap-days except for that choice aroma from shade-grown elephants. No other circus can make that statement! Also on the program will be selections from Wagner for those whose taste runs in a classical vein. Then on the march side, the program will include such numbers as the "Knight'sbridge March" and a swing version of "American Patrol". For the moderns, there will be selections from the hit show "Annie Get Your Gun" and of course to appeal to a college audience, the "Whiffenpoof Song". All in all the program looks good, and there is nothing more disconcerting to a musical organization than playing to the empty chairs. So let's all be "At the Circus".

Cosmopolitan Club Delegates Attend Seminar at Clark

Since the activities of this organization were last reported, the club has had a very busy program.

Three meetings of the club have been held to date, and a fourth one is scheduled for the twentieth of this month. Representatives of the club also attended a seminar held at Clark University. At this seminar, held on December 12, representatives of the International Relations Clubs of the various city colleges were present. Mr. Chaddha, a sophomore at Tech, presented a paper on the UN at this all-day seminar.

At a meeting held at Dean Howe's house on October 20, Mrs. Savitri Burman, a young lady from Delhi, India, and now a graduate student at Clark, spoke on the history and economy of India.

This meeting was followed by another very interesting meeting held

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Fr. Donohue Tells Newman Club of Vatican Experiences

New England Federation Of Newman Clubs To Hold Meeting at Tech

The first meeting of the new year of the Worcester Tech Newman Club was held Tuesday evening, January 6, 1948, in the Janet Earle Room of Alden Memorial. The meeting was opened by Fr. Brabson, chaplain of the Tech Newman Club, who was introduced by President Salvatore Intagliata. President Intagliata announced that the New England Federation of Newman Clubs are going to hold their regular monthly meeting here at Tech on February 8, 1948, in Alden Memorial. There will be representatives of 57 Newman Clubs in Greater New England here for the meeting. Clark University sent word that they will supply refreshments for the affair.

The guest speaker of the evening was Father Cornelius Donohue of St. Anne's parish. He spoke on the Vatican and the Pope.

Joint Meeting Of AIEE and AIRE Held

George Hardy Tells Electricians of Early Experiences

Mr. George Hardy was the speaker at the last joint meeting of the local student chapters of the American Institute of Electrical Engineers and Institute of Radio Engineers, held on January 6. Mr. Hardy has long been associated with the Worcester Electric Co., having been one of those who worked on the installation of the original equipment of the company. He delivered a talk on electrical power transmission and distribution in the early days of the electrical industry, and gave his audience some insight into the problems the engineers of that era were faced with.

The date of the February meeting of the groups has not yet been definitely established, pending a speaker confirmation. It is hoped that the regional vice-president of the AIEE will attend the meeting and act as moderator for a critique of electrical engineering courses and methods of instruction. Opinions will be aired by one post-graduate student, and by two seniors and two juniors, representing both power and electronics options.

Joint Concert Given by Tech And Becker

Glee Clubs Present Program of Choral And Solo Numbers

"Let every good fellow now join in a song." Thus with the rousing "Vive la Compagnie" the Tech Glee Club opened what proved to be a highly successful concert last Friday night (16 January), performed in conjunction with the Girls' Glee Club of Becker Junior College. Although stiff competition was a foregone conclusion (exams for many on Saturday and Jose Iturbi at the Auditorium that night), Alden Memorial though not bulging at the seams was quite comfortably filled for the two hours of music so capably directed by Cliff Green.

Following the concert a crowded dance floor attested to the attraction of the music of our Boyntonians and to the fallacy of the prevalent opinion concerning Becker girls.

But back to the concert. Following the opening number, the club touched the hearts of every engineer with "Worcester Tech, Our Alma Mater". At this point the semi-chorus took over to sing "Into Parliament" ("Iolanthe") and "Softly as the Morning Sunrise". Miss Anne Brown and Maynard Nelson then performed "My Heart Stood Still" in duet, followed by Bob Drew's ever-popular rendition of "When Big Profundo Sang Low C". Bob was then joined by Miss Julanne Johnston to sing "I'm Falling in Love with Someone". Then Caroline Furbush and Marge White, in true ricky-tick style with guitars and western outfits, gave us "Tumbleweeds" and "There's a Blue Sky Way Up Yonder". Then Miss Johnston returned, this time with Frank Holby to sing "Sweethearts". This duet and the four preceding numbers were among the outstanding performances of the evening.

In part two, the W.P.I. Octet entertained with a little close harmony, followed by a series of very well-received numbers by the Glee Club including "Heidelberg" (the Stein Song from "The Prince of Pilsen"), "Winter Song" (which you may associate with the Dartmouth Winter Carnival). The soft strains of "Shenandoah" were followed by the lively novelty, "Ma Little Banjo", and the next spiritual warned all chillun to "Keep in the Middle of the Road". "The Mulligan Musketeers" was then presented for all you Micks, and in conclusion was given a new Tech song which should become quite a favorite, "John Boynton Was a Peddler" which was writ-

(Continued on Page 2, Col. 1)

One Faculty Member and Eleven Students Elected to Sigma Xi

Tech Debaters Become City Champions

Tech's Negatives and Holy Cross Meet In Final Debate

Worcester Tech has succeeded in winning the city intercollegiate debating championship for the first time in nine years. On Dec. 10, Tech held the final debate with Holy Cross for the mythical debating championship of the Worcester colleges. Both teams had 2-1 records going into this final contest. Tech had split with Clark and had a victory over Holy Cross. The men from Mt. St. James had won a double victory over Clark.

Speaking for Tech were Bill Dorman and Bob Lerner. Henry Beuspach and James Kallagher represented Holy Cross. The topic of the debate was "Resolved: A Federal World Government Should Be Established." Bill Dorman and Bob

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Civils Hear Several Speakers at Recent ASCE Meetings

Election of Officers To Be Conducted at Next Chapter Meeting, Feb. 9

On November 13 the W.P.I. chapter of the American Society of Civil Engineers had as their guest Mr. Albert Haertlein, head of the graduate engineering school of Harvard University and director of the northeastern section of A.S.C.E., who spoke on "The National A.S.C.E. and Its Advantages for Young Engineers."

On November 22 the chapter held a stag outing at Chaffin's in Holden.

For the second meeting, held December 15 in the S.R.H. commons, there was an excellent turnout to hear Mr. C. Clark Macomber, president of the George B. H. Macomber Company deliver an interesting and informative talk on what the construction industry expects of the recently graduated engineer.

The next meeting of this organization will be held in the Janet Earle room, below Alden, at 7:30, February 9, at which time new officers will be elected. Those who attend the February 9 meeting will hear Mr. Joseph J. Siddall, manager of the commercial engineering department of the H. H. Robertson Company, speak on light gauge steel construction.

Spaulding Speaks On Flight Testing Of Modern Aircraft

One faculty member and eleven Tech students were voted into membership at a meeting of the Sigma Xi on January 9. Prof. James E. Mulligan of the E.E. department was elected to full membership at the meeting held at 8 P.M. in the Janet Earle room. The following men were elected to associate membership: David I. Caplan, Samuel W. Cocks, Frederick A. Curtis, Jr., Harold B. Guerci, Russel H. Krackhardt, Gershon Kulin, Robert M. Lerner, Robert E. Nowell, Kenneth E. Scott, Albert H. Soloway, and George J. Zewski. With the exception of Mr. Krackhardt, who is a student graduate assistant in the E.E. department, the associate members are all seniors.

The principal feature of the meeting, however, was the talk delivered by Mr. Ellis R. Spaulding of the Chance Vought Division of United Aircraft. Mr. Spaulding, who is supervisor of Flight Test Planning, spoke on the topic, "Flight Testing of Modern Aircraft." Sigma Xi is a national honorary engineering society, members of which are elected on the basis of high scholastic attainment for associate membership or research development for full membership.

Prof. Mulligan was elected to full membership in Sigma Xi on the basis of his research at M.I.T., and at the Naval Ordnance Department before coming to Tech as a faculty member. The associate members were elected on the basis of high scholastic attainment.

Tech Skiing Team Chosen

One can readily see the reason for the hustle shown by the Outing Club these days: this winter is truly a dream for the skiing enthusiast, and has made possible an ambitious schedule for members and to persons interested. To add to skiing interest here on the hill, the Outing Club has offered to give free skiing lessons to Tech men. Last Saturday was spent in holding trials to select a team for competition against the Worcester Ski Club on February 8 at Mt. Wachusett. The following men will comprise the team: Al Howe, Parker Peterson, Dick Leavitt, Don Skeffington, Don Story, and Russ Turner. Both Brown University and Clark University have been contacted in hopes of arranging meets with

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EDITORIAL

To those who don't know, *The Peddler* is the year book of Worcester Tech published annually by the Senior class. It contains pictures of the campus, faculty, members, Seniors, classes, organizations, teams, and all class officers, captains, and managers. It is a complete picture record of the year at W.P.I. in athletics and social life. This year *The Peddler* will also contain a list of all students and their permanent mailing address. It is also planned to have at least thirty pages of informal snapshots.

As *The Peddler* staff already knows, and which all of you have probably surmised by now, *The Peddler* cannot be published without financial backing. *The Peddler* depends solely on the finances accumulated from its advertisers, and the money which comes from the individual subscriptions of the students.

Men in all of the classes owe it to themselves to get this printed record of each of the four best years of their life. Those who were graduated a year or two back wouldn't exchange their books for love or money.

The surest way to gain the respect of your fellow students is to do your part in promoting college activities. Every man in the school should be sure to order his *Peddler* during the subscription campaign. The campaign will be held through the first week of the new term starting February 5. The campaign manager from your division will be sure to contact you personally and take your order at this time.

LETTERS TO THE EDITOR

Dear Editor,

As the time for taking pictures for *The Peddler* has arrived once again, I looked over several recent issues of the yearbook to see just what it contained and how, perhaps, it might be improved.

One thing stood out more than any other and that is the numerous old photographs of the staff. Some of these pictures were taken as far back as 1900 (or at least it seems that way).

If the students can have their pictures taken every year the faculty should have theirs taken at least every five years as their features do not change much in later life. I think that you will agree with me that some of the members of the staff have changed considerably from the pictures that represent them in the last issue of *The Peddler*.

So how about looking into the situation and trying to get new pictures of the entire faculty so when we show their pictures to friends, we won't have to say, "But he didn't look at all like that when he was my instructor."

EDITOR'S NOTE: Most reliable sources advise buying the 1948 *Peddler* to "see them as they are."

Glee Club Concert

(Continued from Page 1, Col. 3)
ten by Cliff Green.

The third and final part of the concert opened with the Becker Glee Club in a pensive mood singing the "Chorus of the Bridesmaids". Then the Tech men appeared and the

combined clubs concluded with five selections including "With a Song in My Heart", "Among My Souvenirs", "Jealousy", "Close as Pages in a Book", and the fast-stepping "Russian Picnic". (This finale was performed with the complete and express sanction of the State Department.)

Fraternity News Bits

By MAL GORDON

SINCE THE LAST ISSUE of TECH NEWS, the Formal and vacation have come and gone. The fraternities have held elections, parties and numerous other functions. Studies also have held some interest and they reach a climax starting January 23rd. Then as always, they fall out of the limelight as another vacation looms into view.

HANGING a fraternity pin seems to have become a custom at Tech. Latest are Earle Halstrom of PSK, Norm Olson of TX, Bob Padgett, Roger Cromack and Ed Coburn all of Sig Ep and Charles Woodman and Hank Styskal of LCA. Going further Kirby Weathersby of Sig Ep married Barbara Hughes of Worcester on December 27th with Pres Stevens as best man and Will Applegate as usher. Still further George Lehto of ATO became the father of a boy born on Christmas day. On December 20th Sig Ep gave a Christmas party for eleven boys from the Ionic Ave. Boys Club which included dinner and some presents for each. Theta Kap gave a party for 25 boys who came from the Nazareth Orphanage in Leicester. The boys received gifts, refreshments, and prizes for games.

ELECTIONS AT PSK, AEP, SAE, LCA. At PSK: Pres., Al Riley; Vice-Pres., Walt Dick; Sec., Dick McMahan; Treas., Ray Costine. Elected at AEP were the following: Master, Al Strogoff; Lt. Master, Saul Gordon; Excheq., Hans Picard; Scribe, Charles Selwitz. The new officers at SAE are: Pres., Bob Quattrochi; Vice-Pres., Carl Ackerman; Treas., Lawrence Brautigam; Sec., Bruce Bailey. Elections at LCA resulted in: Pres., Max Underwood; Vice-Pres., Don Swanson; Sec., Bob Smith; Treas., John Hunter.

BASKETBALL is the main athletic event of the winter season and besides many fraternity men on the Tech team, there are the fraternity teams which play in the Worcester City League. In this category fall SAE and TKP. Also AEP and SPE have played in some games but are not in the league.

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Tech Students to Take Part in Bridge Tournament

Attention all Tech card sharps! Here is your chance to win fame and glory by participating in the National Intercollegiate Bridge Tournament; 163 colleges from 45 states have entered the tournament. Four pairs of players, selected by elimination from all entering pairs, will play a set of eighteen prepared hands on each campus. The results will be mailed to the Bridge Tournament Committee, which will score the hands. The 16 pairs rating highest in all the colleges will then be invited to Chicago where the finals will be held and the champions decided.

Prof. William Longwell will be Tournament Director on this campus, assisted by Prof. Edwin Higgenbottom. All players who wish to participate must inform Prof. Longwell before January 28. A note placed in his box in Boynton will suffice. All entries must be made in pairs.

That's all there is to it. Just tell Prof. Longwell you wish to play. Then brush up on your Goren and Blackwood, or invent your own system. Play your best at the tournament, and who knows, you may become this year's National Intercollegiate Bridge Champions.

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ON OUR CAMPUS

By WALT DENNEN

Twenty years ago Sanford-Riley Hall arose from out of the rich soil of Boynton Hill, and with it appeared a sprightly, grey-haired engineer of human understanding. With a full life already behind him, Horace Russell Perry became the assistant dormitory superintendent of Sanford-Riley Hall at the age of sixty-two. For twenty years he has been contributing to the molding of the futures of hundreds of Tech freshmen, and simultaneously he has been countering the prankish doings of the lowly freshmen. He began his work as assistant dorm. superintendent and general advisor to the students. For ten years he was the campus medical staff, catering to the ills and growing pains of youth. And yet he maintains that there is a quality of quietness about his job that takes hold. With all the vigor and energy of youth that has for twenty years echoed through the corridors of Sanford-Riley Hall, there still persists, Mr. Perry states, a peacefulness that relaxes and calms a person.

Years ago when W.P.I. was known as the Worcester County Free Institute of Industrial Science, Mr. Perry was taking his first steps in the town of Leicester, and since then has lived for the most part in Worcester and Leicester. Later he married and was soon casting a fatherly eye on two sons, one of whom became an Annapolis graduate. When his sons married he again cast his eyes, but then in a grandfatherly manner, not twice but six times. Since then the years have passed and he is now



HORACE R. PERRY

casting a great-grandfatherly eye at his three great-grandchildren.

In observing the growth of his children, and their children and grandchildren, Mr. Perry first put to practice his formula for youth: "Let the youngsters keep you young. Forget the adage that what was good enough for Dad is good enough for us. It isn't. Only by continuous re-adjustment to the ever-changing ways of our civilization can we retain our youthful spirit.

"But at my age my work has to be in an orderly routine. Keep the work moving but keep it in the dormitory. When I leave the campus, my mind leaves Tech and does not remember it again until I come back to Tech. Relaxing at home, and—still more important—knowing how to relax is something that many people don't know enough about.

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STUDENT WIVES CLUB NEWS

By MRS. HAROLD B. GUERCI

Before beginning this column your reporter would like to pass along, to whom it may concern, the many compliments which have been received on the Mrs. Garold Hearsay column. We still don't know who its author was.

The S.W.A. has had two meetings and a Christmas party since our last column. At the December meeting a Christmas party was discussed, and so with high hopes that our husbands would have no exams the morning after the party, the date was set for Friday Dec. 19. About 25 people attended. Once again we had to compete with exams and lost. It was a good party and we are grateful to the committee for a fine job. Ruth Shaw played Christmas Carols for group singing, and except for off-key vocalizing it sounded fine. Miss Shirley Mattson provided excellent entertainment with her comedy monologue. Her rendition alone made the party worth attending. In one song where everyone was to assist with motions Miss Mattson decided that Bob Shaw excelled at mouthing like a fish, to everyone's delight, including Bob.

Ray Phaneuf played Santa and distributed the grab bag presents. The evening ended with ice cream and punch being served.

Our last meeting was held Monday Jan. 12 in the Janet Earle Room. We very regretfully accepted the resignation of Viola Gerber our treas-

(Continued on Page 4, Col. 1)

CAMPUS QUOTES

By ROLAND BEDARD

The answers I received to this week's question should be of interest to upperclassmen especially. I asked the Freshmen "What do you think of the Tech rushing system and can you suggest any changes to improve the system."

Phil O'Connor gave me this answer: "The rushing period is too short. The fraternity men do not have time to get to know the freshmen well and the freshmen only know the fraternity men by what they see in two nights. The period should be extended until the freshmen can have time to meet more of the fraternity men. The men should be able to go in and out of the houses for a certain length of time in order to find out what fraternity life is really like."

Another answer was this: "The dorm rushing period is a very good time to meet the upper classmen. This should be emphasized to new freshmen. The pledge-to-be should not have to make his decision so soon after the second rushing period, but should have a day or so to make this important decision."

Many of the men agreed with this remark by Les Slocum: "Every other night or two a week during the period when the Frosh visit the houses instead of every night would be a great improvement."

Paul Radasch and Bill Mufatti gave the same answer. They want more time between visits, and more

time to make their decision after the visits are over.

Frank Flood had this to say: "The system is the fairest I have ever heard of, but I would suggest some minor changes. I believe freshmen should be permitted to break dates during the visiting periods, and the visits should be spread out. Also, the "hands off" period should be modified to permit discussion of fraternities but with no actual rushing permitted."

The most favorable answer received was this: "I think that the present Tech system of fraternity rushing is about as good a system as it is possible to obtain. The long period of time over which it extends makes it possible for the freshmen to meet most of the upper classmen."

Ric Ferrari answered: "I think that the system needs to be changed. The present system does not give one a true picture of the fraternities. If possible some arrangements should be made whereby the freshman can really get to know the fraternities before he has to make his choice."

Three other freshmen agreed on this answer: "We think open rushing should be held except in Sanford Riley. The fraternities should be permitted to entertain in any manner and at any time. The present pledging system is good, however."

While there was a great variety of changes suggested, almost every freshman desired one thing, more time.

ON AND OFF THE RECORD

By JACK SAUNIER

The news has been piling up since the last (serious) issue of our little rag, what with the record ban now in effect and Petrillo's law suit, and an ear-opening trip to New York by your scribe, after the business of which came the pleasure of hearing Stan Kenton's new aggregation and the Joe Mooney Quartet in the flesh, —or should it be in the flesh-pots.

Petrillo is bound to be pretty cocky for some time, now that he's beaten the rap of the Lea Act charge, —and beaten it so completely that the impotent little piece of legislation has been relegated into well-deserved limbo. So it looks as if the only way to beat James C. is for the musicians to desert his union—which won't happen without better stimulus than the current situation—or for both sides to talk a little turkey—which contingency is equally remote. The only front on which there will be activity for a while is the television tiff, where it appears the enemy may well break through Mr. Big's lines.

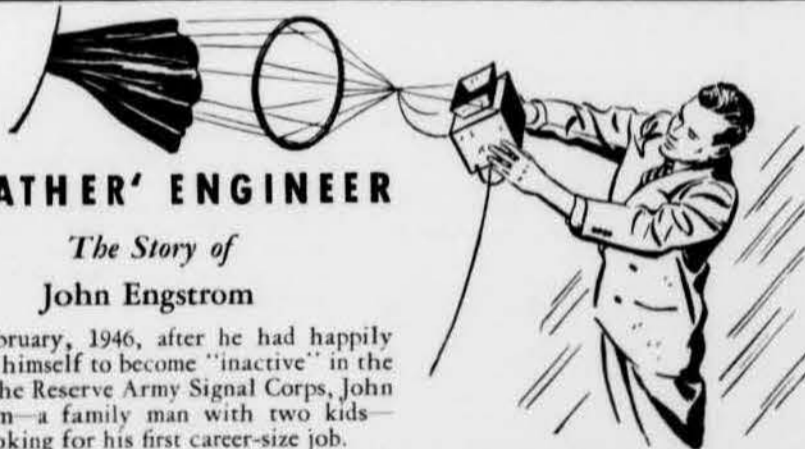
Write down the date Feb. 8th in your little black date books, and keep the evening and your ears open for Stan Kenton's concert at the Auditorium,—it's the Sunday night after we get back from vacation. On the strength of the band Kenton's had for the last couple of years, he walked away with the annual *Downbeat* poll this year, despite the fact that he wasn't working from February to September. The band that

broke up with Stan's own break-up last winter was a good outfit, but the section work was a little rough, and the "book" showed growing pains. With this new band the book is pretty well grown up, the sections play together about as precisely as you could imagine, and the beat is incomparable. Through all his gropings of the past few years, arranger Pete Rugolo has found how to make screaming brass dissonances a thing of chilling beauty, and drummer Shelley Manne and bassist Eddie Safranski know that there are four beats that count the most, besides the technique that embellishes them. Those three men last mentioned, by the way, won in the *Downbeat* poll in their respective specialties, as did June Christy in the vocalist department. That one was really a walk-away, and when you hear Christy do *Willow, Weep for Me* and *Lonely Woman*, you'll know why. June hasn't any more pitch trouble,—that slightly "off" tone she used to have that detracted from the effect of her well-conceived nuances and slurs.

Best number I heard the band and Christy do was a brilliant Rugolo manuscript of *Over the Rainbow*. When Boyd Raeburn did it (with a George Handy score) it was modern and dissonant and very interesting, but it didn't jell. Rugolo makes it jell, and the band more than does it justice. Christy's vocal is magnificent, and the whole thing is a defi-

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Campus to GENERAL ELECTRIC



'WEATHER' ENGINEER

The Story of John Engstrom

In February, 1946, after he had happily allowed himself to become "inactive" in the files of the Reserve Army Signal Corps, John Engstrom—a family man with two kids—went looking for his first career-size job.

He was able to rely on the help of an old friend—his knowledge of electronics.

Ever since he started tinkering with radio sets in his teens, John had been doing things in electronics—and electronics had been doing things for him.

At the University of Minnesota he had earned part of his expenses by servicing radios.

Going directly into the Army after his graduation in 1942, John had drawn electronics assignments at Fort Monmouth, in South America, and later in Europe with General Patton.

John Engstrom found his career-size job at General Electric. Reporting to Electronics Park in Syracuse, N. Y., he spent his first year in developmental engineering. Today, as project engineer for the Army-Navy Meteorological Program, he is in charge of developing tracking and measuring equipment—a solid foothold in an electronics future.

For your copy of "Careers in the Electrical Industry," write to Dept. 237-6, General Electric Company, Schenectady, N. Y.

After keeping up with Patton, John Engstrom is enjoying his General Electric job of tracking meteorological balloons.



With the Signal Corps in Europe, his radio communications team helped keep channels open to Patton during victory drive.

GENERAL ELECTRIC

Debating Club

(Continued from Page 1, Col. 4)

Lerner supported the negative. Although Worcester Tech won the debate, Kallagher was voted the best speaker of the evening. Judges for the contest were Mrs. Sanford, Miss Geraldine Kane and Miss Barbara Brosnihan, all affiliated with the local school system.

A new cup will be obtained and presented to the championship team, since Holy Cross retained the old one after winning the intercollegiate debates three years in succession. Thus Tech has a partial strangle hold on the new cup with two successive victories toward permanent ownership.

Encouraged by these successes, our debating team is planning an ambitious program for the future. Under the guidance of President Henry Oletz and Manager Bob Lerner, the team is planning on a trip during the mid-year vacation. Negotiations are under way for debates with Fitchburg State Teachers and A.I.C. in Springfield, where plans are being made to participate in a one-half hour radio forum with American International and Springfield College. Debating club members are eagerly looking forward to the debate with the Norfolk State Prison Debating Team. Participation in these debates will be restricted to members of the debating society who have had little experience in intercollegiate debating so as to bolster the confidence of the inexperienced members.

Although our debating team has met with considerable success, only a small minority of the students have seen the debating team in action. To alleviate this situation, the SCA suggested that the team conduct a debate during one of the student assemblies. As a result, a debate is being planned for an assembly some time in March. It is hoped that another college can be obtained as opponents, if not, then the debating club will choose their own question and assign negative and affirmative teams.

Mr. Perry

(Continued from Page 3, Col. 2)

That is why many people my age can not maintain my pace. And I shall keep that pace until the school tells me otherwise."

Student Wives Club

(Continued from Page 3, Col. 3)

urer. Viola has been ill and we all send our wishes for a speedy recovery. Lucille Olson was elected to serve out the remainder of the year as treasurer.

A small sum was voted to be taken

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Printers to THE TECH NEWS

from our treasury and given to the Tech Endowment Fund.

We announce the following dates and hope you will make note of them. Jan. 27 at 8 P.M., the Sewing Club, in the Janet Earle Room. Feb. 9 at 8 P.M., regular meeting, in The Commons. Feb. 19 at 3 P.M., a Faculty Tea to which we are all invited, in the Janet Earle Room.

At our last meeting it was discovered that many of our members are expecting additions to their families. At long last they will have an outlet for the surplus accumulated from previous receipts of \$90 per month.

On and Off the Record

(Continued from Page 3, Col. 5)

nition of what's right in big-band progressive jazz.

The band isn't perfect, by any means. The soloists could be better in some departments, and not all of the scores hit the mark,—particularly *Theme to the West*. The addition of Jack Costanza's bongo drums and a guitar put even more punch and scope in the rhythm section, but the bongo is often redundant when a man like Manne is playing the drums. The important thing, however, is the overall sound of the band.

Cosmopolitan Club

(Continued from Page 1, Col. 1)

in the Janet Earle Room, on November 19. The speaker at this meeting was the Reverend Mr. J. Parkes of St. John's Episcopal Church. His topic was "What Is Man?"

To wind up 1947, the club scheduled a gala meeting on December 16, in the Janet Earle Room. Mr. Philip Silver, Jr., spoke on "Brooklyn". While the group were enjoying their refreshments, various members were asked to tell the club of the important festivals, corresponding to Christmas, in their countries.

Thus the curtain rang down on the club's activities for 1947, but 1948 is being ushered in on the twentieth of January in the Janet Earle Room when Dr. Chang, of China, will be the speaker.

Outing Club

(Continued from Page 1, Col. 5)

teams there. To round out the vigorous winter program, these outdoor men have planned a ski trip to Tuckerman Ravine during the Spring vacation.



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STREET FLOOR

DU PONT Digest

For Students of Science and Engineering

Rubber accelerators lead the way to new agricultural fungicides

Vulcanization accelerators for rubber and agricultural fungicides would seem to have little in common. But the wide variety of interests of men in the Du Pont organization sometimes result in outstanding developments from such apparently unrelated products.

A rubber chemist suggested to a plant pathologist that derivatives of dithiocarbamic acid, $\text{NH}_2\text{-C(S)SH}$, parent substance of a well-known group of rubber accelerators, be tested as insecticides. His suggestion was based on the possibility that sulfur combined in this form might be more effective than free sulfur, a recognized insecticide.

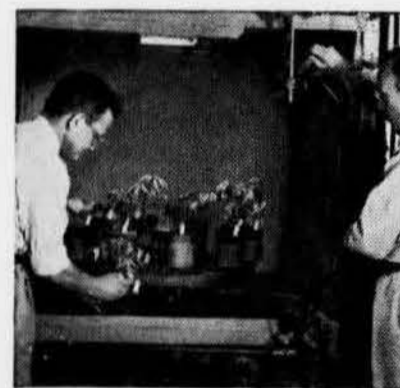
Entomologists and plant pathologists investigated the fungicidal as well as the insecticidal properties of this group. One of the first compounds tested, sodium dimethyldithiocarbamate, $(\text{CH}_3)_2\text{N-C(S)SNa}$, even in dilutions of 1:30,000, was found to be a powerful fungicide, but somewhat injurious to plant life.

This led to a systematic program of research including other metallic salts, the ethyl, propyl, butyl, phenyl, and other aryl derivatives of the dithiocarbamates and thiram mono- and disulfides, and the related compounds

made from ethylenediamine and morpholine. In this phase of the work, organic chemists played an important role by suggesting various derivatives and preparing them for tests. Later, in cases where proper dispersion and adherence of the compounds to plants were important, the skill of physical chemists was called upon.

In general, the compounds of greater chemical stability were found to be less effective. Fungicidal efficiency diminished with increase in size of alkyl radical, and as aryl radicals were substituted for alkyl. Thus the unusual situation developed that with the exception of the bisethylene (dithiocarbamates), the first and simplest products tested, the methyl derivatives, proved to be the best fungicides.

Iron and zinc dimethyldithiocarbamates, $(\text{CH}_3)_2\text{NC(S)-S-M-S(S)CN}$ (CH_3), are now sold as "Fermate" fungicide and "Zerlate" fungicide respectively, for control of fungous diseases of many fruit and vegetable crops, tobacco, flowers and other ornamentals. Zinc ethylenebis(dithiocarbamate), $\text{Zn(-SC(S)NHCH}_2\text{CH}_2\text{NH(S)CS-)}$, marketed as "Parzate" fungicide, has specific action in the control of late



B. L. Richards, Jr. Ph.D., Cornell '44, and A. H. Goddin, M.S., University of West Virginia '32, test efficiency of "Parzate" fungicide in control of tomato late blight and bean rust. Equipment is specially designed laboratory spray chamber.

blight on potatoes and tomatoes. Tetramethylthiuram disulfide, $(\text{CH}_3)_4\text{NC(S)-S-S-C(S)N(CH}_3)_2$, is used in two compositions, as "Arasan" disinfectant for seeds and "Tersan" fungicide for turf diseases.

Overall, the derivatives of these groups of compounds proved to be outstanding as fungicides, rather than as insecticides. Although a marked degree of specificity for different pests was characteristic of the members of this series, it is interesting to note that all three were highly effective. This work offers still another example of how the breadth of interest in a company like Du Pont can lead to worthwhile developments.

Questions College Men ask about working with Du Pont

What are the opportunities for research men?

Men qualified for fundamental or applied research are offered unusual opportunities in facilities and funds. Investigations in the fields of organic, inorganic and physical chemistry, biology, parasitology, plant pathology and engineering suggest the wide range of activities. Write for booklet, "The Du Pont Company and the College Graduate," 2521-A Nemours Building, Wilmington 98, Delaware.



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Field testing of promising fungicides, including "Parzate" formulations, for control of tomato late blight.



SPANNING THE SPORTS

By BILL JULIAN

The Interfraternity Sports picture is rapidly beginning to shape up with tennis and the relays long completed and bowling now well under way. S.A.E. is currently on top with an 80 point aggregate with Theta Kap a distant second with 77 points. Sig Alpha's high total resulted from a tie for first in tennis and a tie for second in the relays. Regardless of how they fare in bowling, they will be leading the pack when basketball rolls around, and it's no secret that S.A.E. figures to repeat as basketball champs again this year. Art Collins, former Jayvee star, should make their hoop team stronger than ever. However, every fraternity undoubtedly will be more potent this season. Phi Sig is always in the running. . . . Buddy Dember and Howie Green will make A.E.P. a strong contender. . . . Theta Kap will be tough to beat. . . . Theta Chi has plenty of good material. . . . Sig Ep has a veteran combination back, and so it goes on down the line.

At this writing, P.G.D. and P.S.K. are leading the keggers. Should P.G.D. win the bowling and repeat again in swimming they will be neck in neck with S.A.E. when spring sports come around.

Last year Sig Ep and Phi Sig were the teams to beat and this year both at present are well down in the standings. Two years ago it was Theta Kap on top. This shows how even the competition is which affords a nice contrast to major league baseball where the same few teams are pennant winners year after year.

If only a few more fellows with some swimming ability had gone out for the team, Tech's natators would be undefeated rather than winless in the two meets thus far. The team has the quality but not the quantity needed to win. Madwed, Kahn, and

Bowen have all been turning in outstanding individual performances, and Ballard has improved tremendously in his diving. However, there is no one to cop the vital third places. For instance, in the Tufts meet in one race Tech was only able to enter one man while Tufts entered two. With first place good for four points, second for three, and third for two, it requires no calculus to figure out that regardless of how well Tech's entry did, Tufts got more points. You might be the man the swim team needs. Why not give it a try?

Tech really found itself against Devens Saturday night and put on a show that left little to be desired. Devens, a supposedly hot club, never was in the game after the first half as Tech, alert and ever aggressive, poured in the hoops and took a commanding 20 point lead as the last half wore on. If the team can continue to play the brand of ball they showed themselves capable of playing, Mass. U. will be in for a very tough evening come Feb. 7.

Radio Club Buys Keyer

The Radio Club, already one of the most active clubs on the hill, is also becoming one of the best equipped. Recently, a surplus Code Keyer has been obtained, and next term classes will be conducted in the use of this instrument.

Lately funds have been made available to the club by the Institute, and with these it is intended that a surplus receiver will be bought. In the meantime club members are overhauling the transmitter and equipping it with many new improvements in order to increase its range.

The club is looking forward to an active interesting 1948.

Notice

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of Group
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Engineers Down Devens 61-49

Trinity Edges Tech In Thrilling Cage Tussle, 44-39

Faber Stars for Blue And Gold Tossers; Ucich Ace for Home Team

Trinity College withstood a last minute point-making effort by the Engineers of W.P.I. to edge out the Boynton-Hillers, 44-39. The half time score was 25-18, with Trinity on top.

The Hartford speedsters, paced by their ace playmaker and captain, "Red" Faber, held a 15 point advantage with less than ten minutes remaining. Then a rapid spree of pointmaking by Tech brought the Engineers to within two points of a tie, 40-38, with about three minutes remaining. For the remainder of the struggle, however, the only scoring done was from the foul line, where the Blue and Gold added four more points to their total, and the Engineers counted one.

"Red" Faber was the whole show for Trinity, scoring 20 points, dumping 9 out of 12 shots from the field and 2 for 4 on the foul line. In addition he assumed more than his share of the defense, stopping many potential threats by interceptions. Tech captain John Concordia did an excellent job in holding the ambidextrous red-head to two field goals in the second half.

The points for Tech were almost equally shared by forwards Bob Carlson and Richie Howard, center Rog Cromack, and guard Steve Ucich. Steve, playing before a home town crowd, put on his best exhibition of the season, with a superb floor game.

Trinity started out with a rush, and built up a sizable lead in the first twenty-five minutes. From there on they apparently tried to coast home, but were rudely awakened to the fact that they were in a ball game as their lead dwindled to two points. But with the score 40-38 in their favor guard Joe Ponsalle, a rugged member of Trinity's once-beaten gridders, scored his only two points of the evening from the foul line. These two hoops broke the back of the Tech attack.

Worcester Telegram

The Evening Gazette

Sunday Telegram

Radio Station WTAG

Tech Five Dazzles Ayer Quintet To Avenge Pre-Christmas Defeat

Roger Cromack, R. Howard Lead Tech Scorers

Tech Junior Varsity Loses To Devens Jayvees 38-29 In Preliminary

Tech's net quintet really came into its own last Saturday night when they defeated Fort Devens College in the Tech gym. The Engineers won their other two home contests with Norwich and Arnold by sensational last minute spurts, but against the GI's, Coach McNulty's charges showed their fans what a basketball team looks like. The Techmen were in the driver's seat throughout the affair, outrunning, outshooting and outthinking the visitors from Ayer. The halftime count showed W.P.I. ahead 29-21. The margin was extended to 20 points twice in the second period but no effort was made to run up an overpowering score.

Roger Cromack with 14 points, eight of them from the free throw line, was high scorer of the evening. Roger played his best game of the season, looking excellent both off the boards and feeding from his pivot position. Richie Howard scored 10 points and covered the rebounds as if he had spring steel for leg muscles.

Tech opened up an early 9-2 lead on goals by Carlson and Concordia and a foul shot by Cromack. The Veterans rallied and center Ed Zelazo tied things up at 11 all with a one hander from the side. Devens' Paine, Ryback and Skifas pulled ahead to lead by 19-16 but this was to be the GI's last flash of brilliance. With several fresh reserves in the lineup Tech again assumed control. Bob Carlson put them in the fore 20-17 with a shot from the corner and baskets by Howard, Andy Free-land and Jim McKernan gave the Engineers their 29-21 halftime advantage.

Tech opened the second stanza by spurring to a 34-23 lead and holding Devens scoreless for the opening five minutes. In spite of the fact that reserves were used frequently, twelve men in all seeing action, the score

climbed to 46-26 and 58-38. In the last five minutes, with the pressure off, the GI's closed the gap to 12 points. Bill Crimmin, who was high scorer for the visitors with 11 points, scored them all in the second half.

Although none of the Engineers counted for any sensational number of baskets, six of them scored five or more apiece. It must be remembered that Cromack sunk his 14 points while playing only slightly more than half the ball game.

The play was rough and ready throughout and the officials called many penalties, although they didn't always appear to be the right ones. Tech was punished for 22 personal fouls and Devens for 27. The Engineers missed nine of their free throws and the Veterans 11.

Captain Concordia played his usual excellent game. John is as steady as the Rock of Gibraltar and his defensive work is always sparkling. He and Steve Ucich at the other guard spot broke up many of the GI's scoring threats. Russ Bradlaw also looked good during the short time he was in the game. Russ looked especially good passing in to the bucket and on defense. Forwards Howard and Carlson worked well together and there was none of the furious milling around which has characterized Tech teams in past seasons.

TECH		DEVENS	
fg	ft	fg	ft
Carlson f	4 1 9	McCann f	0 0 0
Free-land	1 0 2	Paine	2 2 6
Howard f	3 4 10	Gordon f	0 0 0
Collings	2 1 5	Ryback	1 7 9
Cromack c	3 8 14	Martin c	2 1 5
McKernan	3 2 8	Zelazo	1 3 5
Concordia g	1 2 4	Burdette	1 1 3
Bradlaw	1 0 2	Skifas g	3 1 7
Kolodne	0 0 0	Crimmin	4 3 11
Ucich g	2 2 6	Horton g	1 1 3
Barna	0 0 0	Nagle	0 0 0
Converse	0 1 1		
Totals	20 21 61	Totals	15 19 49

Halftime score: Tech 29, Devens 21.
Free throws missed: Carlson 2, Howard, Collings 2, Cromack, McKernan, Ucich, Barna, McCann, Ryback, Martin 2, Zelazo 4, Crimmin 3.
Personal fouls: Carlson 4, Howard, Collings, McKernan 3, Concordia 4, Bradlaw 2, Ucich 4, Barna, Converse, Kolodne, Paine 2, Gordon 2, Ryback 4, Martin, Zelazo 2, Ztikas 5, Crimmin 5, Horton 5, Nagle.
Referee, Tom Carrigan and Jim Dorsey.
Time, 20-minute halves.

DEVENS J.V.		TECH J.V.	
fg	ft	fg	ft
Fitzgerald f	0 1 1	Sequin f	1 1 3
Reddick	2 1 5	Michelman	0 0 0
Curtis f	8 0 16	Goap f	5 1 11
Boynton	1 0 2	Lewis	0 0 0
Dellorosso c	0 0 0	Dillon c	6 0 12
Martineau g	2 1 5	Griswold	0 0 0
Koritz	1 1 3	Grimwade g	0 0 0
Scanlon g	3 0 6	Wright	0 0 0
		Gilbert #	1 1 3
		Blom	0 0 0
Totals	17 4 38	Totals	13 3 29

Referee, Meegan and Budzyna.

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Tech Mermen Lose To B.U. 44-31

Madwed, Bowen, and Kahn Take Firsts In Close Contest

By failing to win the last event, the 400 yd. relay, the Tech swimming team was handed their second defeat of the season, at the hands of the Boston University mermen. The score ended with Boston University accumulating a total of 44 points to Tech's 31.

Paced by the ever improving Madwed, Tech kept on even terms with the Bostonians up until the last event. Madwed, Bowen, and Kahn of Tech took first places and contributed most to the Tech cause.

This year Sid Madwed is a consistent point getter for the team. His sudden improvement over last season has been a pleasant surprise to Coach Frank Grant. He has already won his letter for this year and is expected to give a good account of himself for the remainder of the season.

This year the team will lose only four men through graduation, Hassan, Ballard, Jordan, and Olson. The only bright spot of this loss is that they will be replaced two-fold by the members of the freshman swimming team, who will be eligible for varsity competition next year. The freshman team consists of Lancy, Johnson, Sinn, Cramer, Messinger, Brown, Anderson, and Hodgett.

Results of the meet on January 10, 1948:

- 300 yd. medley—Won by Worcester (Bowen, Kahn, Hassan) 3:23.5.
- 220 yd. freestyle—Stebbens (B), Corning (B), Brown (W). 2:38.7.
- 60 yd. freestyle—Gault (B), Madwed (W), Olson (W). 31.7.
- Diving—Robinson (B), Ballard (W), Jordan (W), Cearonowski (B). 83.8 points.
- 100 yds.—Madwed (W), Gault (B), Nickerson (B). 59.7.
- Backstroke—Bowen (W), Wisnewski (B), Olson (W). 1:53.1.
- Breaststroke—Kahn (W), Elmer (B), Watt (B). 2:50.1.
- 440 yds.—Stebbens (B), Corning (B), Brown (W). 5:59.1.
- 400 yd. relay—Boston U. 4:00.6. (For Tech: Madwed, Kahn, Hassan, Olson.) Score: Boston U. 44, W.P.I. 31.

Another Thriller Jan. 17, 1948 Tufts 38—Tech 37

- Summary:
- 300 yd. medley relay—Won by Worcester (Bowen, Kahn, Hassan) 3:26.6.
 - 220 yd. freestyle—Appel (T), Brown (W), Curby (T). 2:40.5.
 - 60 yd. freestyle—Manthey (T), Madwed (W), Olson (W). 31.2.
 - Diving—Hill (T), Glines (T); Ballard (W).
 - 100 yd. freestyle—Manthey (T), Madwed (W), Hassan (W). 57.4.
 - 150 yd. backstroke—Bowen (W), Kuhn (T), Harrington (T). 1:52.4.
 - 200 yd. breaststroke—Kahn (W), Welch (T), Glancy (T). 2:49.6.
 - 440 yd. freestyle—Appel (T), Brown (W), Preston (T). 5:35.6.
 - 440 yd. freestyle relay—Won by Worcester (Bowen, Kahn, Hassan, Madwed) 4:10.

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P.G.D. Takes Top Honors in I.F. Relays

P.G.D. Team Establishes New Record As They Win Meet on Final Day

P.G.D. literally ran off with the honors in the latest running of the Interfraternity relay races and climaxed the running with a record 2:22.2 for the three trips around the oval. The series was featured by many close and exciting races and reached the height of excitement when the title was decided on the last day of the meet. In the races of that day T.K.P. nosed out S.A.E. and dropped them from first place, paving the way for P.G.D. to come home the victor. Never ones to look a gift horse in the mouth, P.G.D. immediately applied the clincher by outrunning P.S.K. in a new record time.

Throughout the season P.G.D. lost but one race and that a very close match to S.A.E. in which Harvey Howell, a newly acquired pledge and an outstanding runner, made the difference for S.A.E. Many of the teams received valuable help from the running of their pledges who were acquired shortly after the season opened. S.A.E. might well have managed to walk off with the title but for an early season defeat and the illness which Howell suffered the last day of the season. However, P.G.D. was by far the best team of the meet and it is only fitting that Lady Luck and a hard running T.K.P. team assured them of their well deserved victory. T.K.P. dropped their first race of the season and then started winning only to be stopped by P.G.D. and finally put the finishing touches to S.A.E.'s hopes for the title by nosing them out in a close race.

P.S.K., last year's title winner, suffered from a late start and illness to their anchor man, Norm Clark, and finally ended in a fourth place tie with S.P.E. The new title winners, P.G.D., all ran well (as witnessed by their times) and left no doubt that they were well deserving of the title. Weikman and Watson were standout performers for P.G.D. throughout the season. Other standouts of the races were: Howell (S.A.E.), Brennan (T.K.P.), Haas (T.K.P.), Clark (P.S.K.), Rehrig (P.S.K.), Williams (S.P.E.), Ferguson (A.T.O.) and Gannon (L.C.A.).

Standings:

TEAMS	WON	LOST
P.G.D.	7	1
T.K.P.	6	2
S.A.E.	6	2
P.S.K.	5	3
S.P.E.	5	3
L.C.A.	4	4
T.C.	2	6
A.T.O.	1	7
A.E.P.	0	8

NOTICE

Attention all members of the football and soccer teams.
 Election of captains Wed. Jan. 21 at General Assembly.
 Also, athletic certificates will be awarded.

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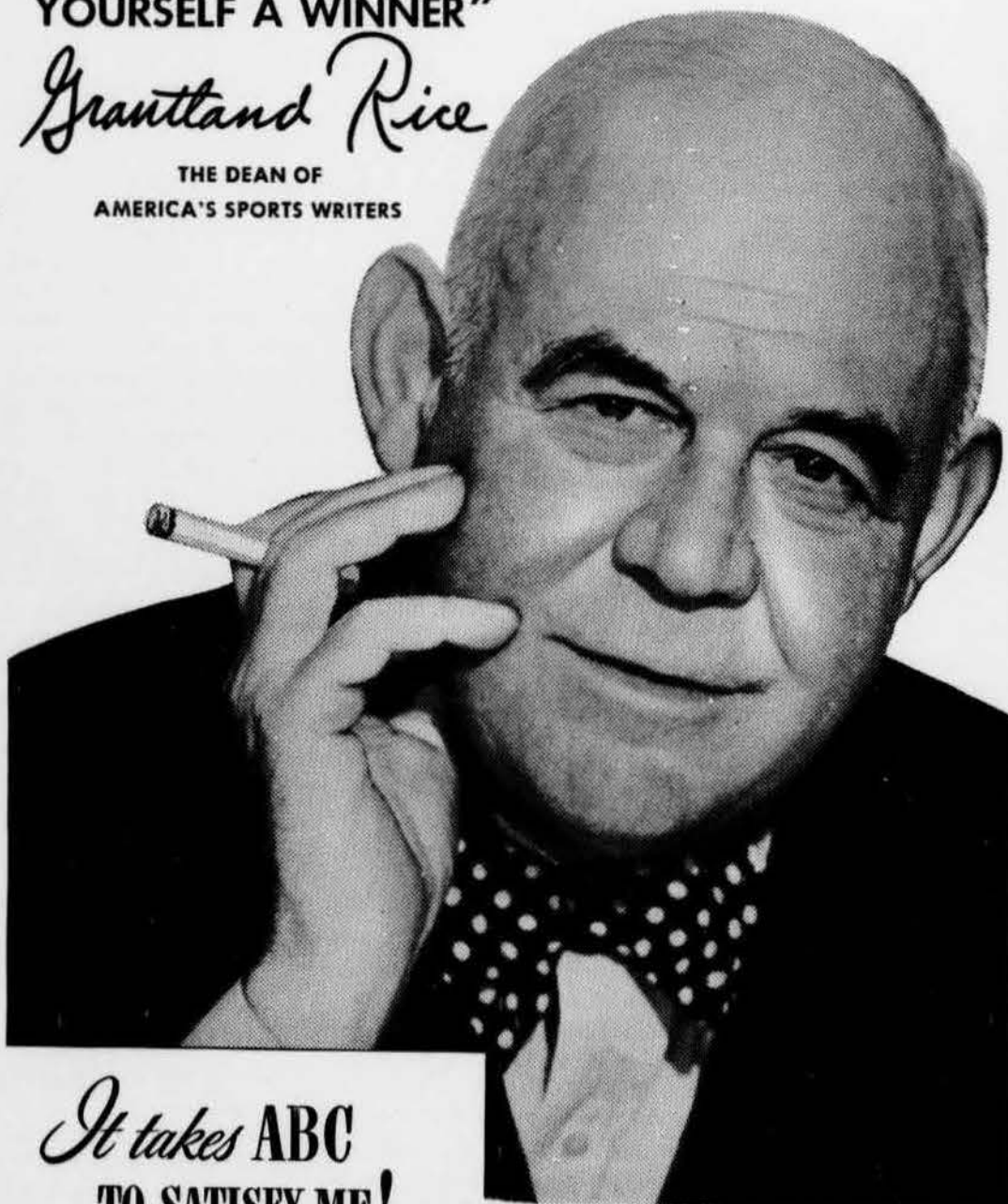
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