

"Significance of Lent" Subject Of Next Assembly Speaker

"Nature of Love" and "Gas Talk" Topics of Previous Assemblies

On Wednesday, March 3, at 11 A.M., in Alden Auditorium, the Eleventh General Assembly of this year will be held. Walter B. Dennen, Jr., will lead the assembly, and the main speaker will be Father David W. Twomey, S.J., head of the Department of Sociology at the College of the Holy Cross, who will speak of the "Significance of Lent." This assembly promises to be very successful.

At the last assembly, February 25, Professor MaGoun, professor of Human Relations in Industry, in the Department of Economics and Sociology at the Massachusetts Institute of Technology, lectured on "The Nature of Love." First, love was defined as the desire of two people to create together so that their success and happiness can prosper without interference from either party. Secondly, he emphasized that sex and love are not synonymous. This was elaborated more with many illustrations that were both humorous and instructive. He also stated that if every college had a course on "How To Be A Good Parent," the world would be 100 per cent better and divorces would be minimized.

At the assembly on Wednesday, February 18, Professor Charles M. Allen, Director of the Alden Hydraulic Laboratory, presented his famous "Gas Talk," which has not been given for some years. Professor Allen demonstrated the use and misuses of gasoline and other fuels. This lecture was very instructive and humorous especially the demonstration of the effect of the air-fuel ratio on the explosive strength of gasoline with his famous exhaust stroke. The essence of the lecture was that

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AIEE Sponsors Open Forum and Panel Discussion on E.E. Dept.

The evening of Feb. 19th witnessed an occurrence as unheralded in its sphere of influence as the dropping of the atom bomb. One of the departments of W. P. I. became introspective. A student meeting of the A. I. E. E. held an open forum and panel discussion entitled "A Critique of the Methods and Courses of the Department of Electrical Engineering." At that time the students were asked for constructive, frank, and honest criticism of present conditions. Although this event was primarily for the benefit of the E. E. Dept. and its students, many of the suggestions

Distribution Policy Of "Tech News" Changed

Copies To Be Delivered To Boynton, Dorm, and Fraternity Houses

Beginning with this issue of the TECH NEWS a new system of distribution goes into effect. This was deemed necessary because of the complaints of many students that they were not receiving their copy of the TECH NEWS. Under the new system the distribution has been divided into four groups, as follows: Dorm men; Fraternity men; City men; Faculty and others.

One man on each floor of Sanford Riley will assume the responsibility of giving to the men on his floor a copy of the TECH NEWS. These men are Leo Lemere, first floor; Rick Ferrari, second floor; Don Lewis, third floor; and Dick Coffee, fourth floor.

Copies for fraternity men will be delivered to the fraternity houses by members of the Circulation Staff. The fraternities will receive as many copies as there are men living in the fraternity.

City men will get their copy in Boynton. Men who do not live in Sanford Riley or in a fraternity house are considered city men, whether they are fraternity men or not. The Faculty will continue to receive their copies as they have in the past.

Here in brief is how each man will get his copy of the TECH NEWS:

Dorm men will get their copy at the Dorm.

Fraternity men living in fraternities will get their copy at their fraternity house.

Class of '79 Essay Competition Open to All Undergraduates

Fifty Dollar Award to Writer of Outstanding Scientific Paper

Once again the ingenuity and resourcefulness of prospective engineers as well as their ability to write will be at stake in the annual Class of '79 essay competition. Every year since 1929 (at which time the contest and its awards were inaugurated by the Class of '79 as its 50th anniversary gift) this contest has offered to WPI students from lowly Frosh to lofty Seniors the opportunity to expound their theories on some scientific engineering subject with which they are acquainted. Naturally their theories must be their own, i.e., not abstracted in whole or in part from any publication. In evidence of his good faith, each entrant is required to submit with his essay a bibliography and statement of his experience.

The essay itself must be written in a logical and popular style so that it is suitable for publication in a lay magazine, and should appeal to normal, average curiosity and interest. It is to be of two thousand word minimum and should not exceed four thousand word maximum.

The award is to be fifty dollars and will be presented to the undergraduate who, in the opinion of the committee of judges, has submitted the entry which best conforms with the above stipulations. This committee will be comprised of Professor Edwin Higginbottom, head of the department of English and chairman of the committee, assisted by Professor Francis J. Adams, professor of electrical engineering, Professor W. F. M. Longwell, professor of civil engineering, Dr. Harold E. Grayes, professor of chemical engineering, and Dr. G. H. MacCullough, professor of engineering mechanics.

Notice

Do you go to a 9 o'clock class with an empty stomach? Do you have trouble getting breakfast in the morning? You do? Well, the Coffee Shop thinks so too, and to remedy the situation they are now opening at 8:30 A.M. So many students asked for an earlier opening that the Coffee Shop has complied with their request. Don't squander your nickels and dimes on betting sheets and ice cream cones, go to the Coffee Shop and enjoy a cup of the finest coffee brewed in Worcester in the congenial atmosphere of the Sanford Riley Commons.

Masque to Produce Christie's "Ten Little Indians"

Sanford Riley Men Sponsor Movies in Alden Auditorium

Frosh Initiate "Evening At the Movies"; Show Al Jolson Movie

February 27 marked the happy beginning of a new program at Tech, a program quickly acclaimed by all. It is a pleasant modification of our scholastic lives called "Evenings at the Movies". It combines a number of features novel to us here: it is highly entertaining, it's absolutely free, and it's open to all.

The two and a half hours' entertainment offered last Friday evening was the first of a series which we will enjoy through the remainder of the school year. This series is an attempt to provide evenings of amusement at a minimum cost, and it has the further advantage that it is presented right on the campus. The idea was proposed by Mr. Kleine of the Economics Department, and it is sponsored by the students in Sanford Riley Hall. The co-chairmen are Samuel R. Winther and James B. Macy. Mr. Kleine is acting as advisor. We are also indebted to Irving R. Versoy, Jr., for volunteering as projector man. He is a graduate assistant instructor in the E. E. Department.

The first of the "Evenings at the Movies" presented four top attractions: "Rose of Washington Square" with Al Jolson, Alice Faye and Tyrone Power, "Labor Savers"—a Lew Lehr comedy, "Rehearsal"—behind the scenes with "The Telephone Hour", and "Do You Remember?"—community sing with favorite songs. The program began at 8:00 P.M. in Alden Memorial. It was well attended and highly appreciated. Its success may be partly attributed to the school which has been most helpful and cooperative.

Mr. Ernest Hollows New Faculty Adviser of Dramatic Society

Ten Little Indians, Agatha Christie's thrilling mystery, is the production which will be done this year by the Masque, Tech's dramatic society.

Being limited by a non-coeducational student body, the Masque encounters some difficulty in selecting a play. Aided by their newly appointed faculty adviser, Mr. Ernest W. Hollows, the Masquers have displayed keen judgment in picking the *Ten Little Indians*.

Ten Little Indians was first written as a story under the title, *And Then There Were None*. Finding it adaptable to the stage it was revised and produced in June of 1944 in New York under the title of *Ten Little Indians*. It was so popular that it was made into a movie under its original title and also has been dramatized over the air.

Ten Little Indians is a mystery play in three acts. Its cast requires eight men and three women. Casting was held Monday under the direction of Mr. Charles P. Rugg. Mr. Rugg is well known in dramatic circles about Worcester and has aided in past productions of the Masque.

The "Ten Little Indians" refers to the cluster of statuettes on the mantelpiece of a weird country house on an island off the coast of Devon, and to the nursery rhyme embossed above them, telling how each little Indian met his death until there were none. To this queer Byzantine mortuary eight assorted guests are invited for a weekend by a mysterious host. None of the guests know each other nor have they met their host. Nor has the housekeeper, the butler or the boatman ever met their employer.

While the guests are assembled for cocktails, a voice comes out of the

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"Recent Textile Developments" Subject of AICChE Meeting

Last Wednesday, February 18, 1948, the A. I. Ch. E's had an interesting talk given to them by Dr. Ralph F. Nickerson, who spoke on the recent developments in the textile industry. The speaker, who was introduced by the Vice-Chairman, Gino Santandrea, received his Ph.D. from Mass. State in 1934. After obtaining his degree, he received a fellowship from Mellon Institute to study cotton and its utilization in industry. From there he went to Firestone to investigate the possibilities of the use of rayon in place

of cotton for tire cording. After completing this work he went to work for the A. C. Lawrence Leather Company and thence to the Monsanto Chemical Company, where he is now employed in textile research.

To illustrate his talk, Dr. Nickerson brought along several samples to show very plainly, the advantages and disadvantages of fabrics and what can be done to keep the good features and eliminate the bad ones. For example, he explained how cotton, although cheap, plentiful, easily

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Editorial

The stage was a basketball floor, and their only props a ball and two baskets. Last week the curtain rang down on their final act. The show was an excellent one, well directed, and with a capable supporting cast. These resolute thespians fought with the heart of a lion and the courage and fierceness of a tiger. The play was one of continuous battles, with our actors winning six out of thirteen skirmishes with the enemy. They fought bravely and performed like seasoned veterans. Unsung and unheralded, their names will be forgotten but their deeds, their glory will remain. Yes, Tech's basketballers and their coach, Mr. McNulty, are deserving of just praise and commendation for their excellent showing of sportsmanship and good conduct.

Elsewhere in the TECH NEWS is an article concerning the distribution of copies of the TECH NEWS. Certainly it is incumbent upon every student to cooperate with the plan, so that every one will be assured of receiving his copy. The Circulation Staff is doing its utmost to distribute copies to every one on the Hill, but its labors are of no avail if there is no cooperation. We hope that all students will abide by the distribution scheme and make the work of the Staff that much easier.

Letters to the Editor

1. TECH NEWS will publish all letters received from contributors providing:—
(a) The name of the writer is known to the editor (a pen name may be used).
(b) The writer does not become slanderous.
2. Drop your contributions, sealed in envelope, in TECH NEWS box, Boynton Hall.
3. TECH NEWS welcomes all student, faculty, and alumni comment.

Calendar of Events

- Radio Club**
Tuesday, March 2 4:15
Electronics Lab.
A.S.C.E.
Monday, March 1 7:30
Janet Earle Room
Masque Casting
Monday, March 1 7:00 P.M.
Alden
Literary Club
Friday, March 5 7:15
Janet Earle Room
Cosmopolitan Club
Monday, March 15 7:30 P.M.
Janet Earle Room

AICHE

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dyed and mercerized, wrinkles easily, but can be remedied by a chemical his company produces. He illustrated this fact by two pieces of cotton, one treated and one untreated by this chemical. After he had thoroughly wadded and crushed both pieces of material, the former still looked freshly laundered, while the latter was all wrinkled. He also demonstrated how rayon, which cannot be washed too often without normally affecting the material, can be made to wash like cotton. To demonstrate this point, he had three samples of rayon, one which had never been washed, one which had been treated and washed five times, and one which was not treated and which had been washed five times.

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Fraternity News Bits

By NORM BROWN

Well, the shovel is still damp after the demise of the basketball season, but socials are still going strong. SPE, AEP, and LCA brightened up the night after our brush with R. P. I. with lively house parties. The party at L.C.A. was mainly in celebration of the return of Don Swanson and "Clarkie". "Clarkie", a former Becker girl, has been vacationing in Florida. S.P.E. played host to visiting R. P. I. brothers.

Past weekends weren't neglected either. The house party which L.C.A. held after the A.I.C. game was well attended despite the long weekend. After our game with Tufts, A.E.P. entertained twenty of its Tufts brothers at the new house.

PLEDGING: S.P.E. has pledged Merrill Spiller, Al Hanson, Ritchie Howard, Carl Luz, Marty Bromberg, and Walt Bretthauer. T.K.P. has pledged Charles Bouchard. Seventeen P.S.K. pledges were initiated on February 28 and 29. Thirteen T.K.P. pledges were initiated on February 29. Also initiated were seven men from the B. U. colony chapter, and Professor Back, of the Language and History Dept. Mark Baker and Bob Wolff are slated to join the ranks of L.C.A. A house dance will be held at A.T.O. on March 6.

Notice

Have you any pictures that you would like to appear in the 1948 Peddler? Positives or negatives of any sports, rallies, Fraternity, inspection trips, lab. groups, campus shots, or in general any informal shots are wanted.

Please hand the shots into the Peddler box by March 5th and be sure to put your name on the back if you want them returned.

Any questions? Contact N. Jardine. Positives preferred.

Masque

(Continued from Page 1, Col. 5)
air and accuses everyone present, even the houseservants, of murder—not the sort of murder on which a conviction can be got in the courts but a murder just the same. While they are exchanging data on themselves and on their host, one of the ten Indian statuettes topples off the mantelpiece and breaks. Immediately following this one of the guests chokes to death—one down and nine to go. Then the excitement begins and never lets down until the final curtain.

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Tech Debates With State Teachers

A regular meeting of the Debating Society was held on Thursday, February 19, at 7:15 p.m. in the commons room in Sanford Riley Hall. The first hour was taken up with a regular business meeting. At 8:15, there was a debate between the second team, Worcester Tech, and the second team, Worcester State Teachers College. It was a non-decisive debate, that is, one in which there is no formal decision. Debating for the Worcester Tech second team were Jim Dean and Subbiah Muthiah, and debating for Worcester State Teachers College second team were Miss

Margaret Looney, and Miss Rosalind Scott. The subject which they debated on was: Resolved, that the United States should sponsor a complete system of medical care. The affirmative was taken by Worcester State Teachers College, and the negative was debated by the Worcester Tech team. After the debate, there was a lively discussion period, in which many interesting questions were asked. The nature of the subject, which is very controversial, prompted a great deal of debate, and it was a lively one. The debate, and the discussion period following it, was presided over by Miss Clara Saunders, of Worcester State Teachers College.

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Cosmopolites Hear Speech On Lincoln

The first meeting of the Cosmopolitan Club for the 2nd term was held on February 25, in the Janet Earle room.

President Lund opened the meeting by asking the audience to rise and observe a minutes' silence in honor of the Great Indian Patriot, Mahatma Gandhi.

The business meeting which fol-

lowed this simple ceremony, concluded with the club passing a Resolution that Diplomas be awarded to office holders, speakers and graduating members. An official Diploma was sanctioned.

Dean Howe then introduced the speaker for the evening. In introducing Judge Wahlstrom, Dean Howe stated that he was a Judge of the probate court whose hobby is Abe Lincoln. Judge Wahlstrom, a trustee of Clark Univ., was one of the first persons to see the newly released Lincoln papers.

He spoke to the group of how

these papers impressed him and other Lincoln experts and what the influences were which made Abe Lincoln America's greatest statesman.

Speaking of his patron saint, Judge Wahlstrom thought that Abe's father, Tom Lincoln, greatly influenced Abraham Lincoln's life—contrary to popular belief. Mr. Wahlstrom, during his researches on Abe's life, found that two women had influenced the great statesman's life more than anyone else. They were his stepmother and his wife, both of whom developed his genius and overcame his laziness.

OUR FACULTY

By WALTER DENNEN

Maurice Edward Smith, Professor of Chemistry and consultant to industrial firms on chemical problems since 1924, was born in Fredericton, New Brunswick, where his childhood was spent. Upon graduating from the Fredericton High School, and one year later from the New Brunswick Teachers Training School in 1910, Professor Smith spent his first, but brief, period of teaching, as a public school teacher.

Three years later he returned to furthering his educational progress by enrolling at the University of New Brunswick from which school he was graduated in 1917 with a degree of Bachelor of Arts in chemistry and natural science. He then passed on to the University of Toronto where he remained four years, during which time he collected his degrees of Master of Arts and Doctor of Philosophy, and acted as instructor in chemistry.

From the University of Toronto, Maurice Smith, now Doctor Maurice Smith, traveled to Kingston, Ontario, to Queen's University. At this university, Doctor Smith remained one year as a lecturer in organic chemistry. Upon the conclusion of his year's lecturing at Queen's, Professor Smith returned to eastern Canada—to Halifax, Nova Scotia, more specifically—as an analyst at the government's food and drug laboratories. But two short years later he returned



DR. MAURICE E. SMITH

to the teaching profession where he has remained since.

Upon departing from the government laboratories Doctor Smith left the Dominion of Canada as well, and came directly to Worcester Tech as an instructor. After a period of three years as an instructor, he attained an assistant professorship in 1927. And in 1938 he received a full professorship.

Professor Smith's home life centers entirely around women: four women exactly. One is his wife, the former Anna Holland, whom he married in 1926, the other three being his three daughters; Ann Marie, Margaret Jean, and Mary Helen. Doctor Smith is a member of Sigma Xi, and also a member of the American Chemical Society and the Society for Engineering Education.

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CAMPUS QUOTES

By ROLAND BEDARD

During the war years, one of the old Tech traditions was dropped. That was Hazing. But now things are pretty well back to normal, and there has been a great deal of talk concerning the revival of this practice. So we asked some Tech students what they thought of the idea, and the following are some of the answers.

Dick Connell is highly in favor of the idea. He said: "Definitely, Freshman hazing should be revived. The average age of the Freshman class is getting younger; the men fresh out of high school not only need hazing, but expect it. Hazing unites the class as nothing else will, and provides a quick introduction to the upperclassmen. Caps are a mark of identification. Making the greeting of everyone with a 'hello' familiarizes the freshman with the upper classes. Tech Bibles should be carried at all times, and the freshmen should be held responsible for Tech cheers and songs; the reason for this is obvious from the response at athletic games."

Ed George is also in favor of the plan. He said: "Now that the entering freshmen classes are returning to the usual high school graduates, I think that hazing should be revived. Just what type of hazing, should be judged by the Tech Council, but, one thing sure, the class officiating should not do so with 'bloodthirsty' revenge. Hazing is to try to belittle the Freshman to test him for his sportsmanship, not bodily resistance,

so I hope this is remembered and upheld if hazing is brought back to our campus. Hazing should be FUN for both classes involved."

Arnold Agulnick gave the following answer: "Since I am not a freshman, I am strongly in favor of it. Hazing is, in my opinion, one of the best methods of fostering a strong school spirit, a quality which is always desirable. However I would impose one limitation upon this proposed freshman hazing. I do not believe it would be desirable to impose undue hardships upon the already bewildered freshman."

Bob Wolff answered: "No college, especially one of this type, should become only a place of study, devoid of spirit or mild rivalry between classes. With this in mind, I think hazing should be reinstated. The type should be harmless, similar to that of pre-war days, i.e. not allowing Freshmen to use the Earle Bridge, and the wearing of 'beanies' until after the rope pull (or longer, should they lose). In addition, punishment could be a one hour night watch at the Skull Tomb."

There was one dissenting opinion: "I feel that freshman hazing should not be revived. Worcester Tech has too much work for freshmen as it is without giving them this sort of thing. If Tech had a 'gala' social program, then O.K., it would be good. But as we all know, the school itself offers nothing, so why add insult to injury?"

STUDENT WIVES CLUB NEWS

BY MRS. HAROLD E. GUERCI

The S. W. A. held its last meeting in the Common's Room on Feb. 9th. There was a good turnout despite the weather.

The meeting was a bit more lively than usual. The question arose as to whether we should continue to be a member of the Worcester Woman's Forum since that organization is now requiring payment of dues. After an hour, in which three motions to a vote were dismissed, it was decided that we would continue membership and would send delegates to the Annual Forum. The members had quite a time deciding whether we were to be a social club entirely, or to be intellectual as well. No result was obtained on that score.

Plans were made for a Square Dance to be held at Trow's Farm in Sterling. Saturday night was decided upon as the best time, and a reservation has since been made by Gloria Cooke for April 10th. The charge for the evening will depend upon the number of couples attending, with a maximum of \$1.87 per couple. Excellent refreshments are served as part of the admission price. In order to be assured that the evening will be financially successful we are asking members to bring their admission to the next meeting. Refunds will be made if the charge is less than we anticipate. We are inviting your friends if you would like to ask them. Previous knowledge of square dancing is unnecessary. We believe there are enough cars in our group to assure transportation.

Tentative plans were made for a card party to be given by the S.W.A. for the Faculty Wives, on April 27. The committee will be Gloria Cooke, Ruth Shaw, Lucille Olson, Madeline Dieterle, Ruby Mochon, Marjorie Carrier, Barbara Baldwin, Eleanor Guerci, Helen Phaneuf, Muriel Kerr, Jane Brown, Carol Cornell and Claire Lemieux.

On Feb. 19 a number of our members attended a tea given by the Faculty Wives. Mr. Geo. Foxhall of the *Worcester Telegram* and *Gazette* read selections of his poetry. We extend our thanks to the Faculty Wives for a lovely afternoon.

The last sewing meeting was held Tuesday Feb. 24 in the Janet Earle Room. We wish more girls would attend these gab fests.

Our next meeting will be March 9 at 8 P.M. in the Janet Earle Room. We have planned a special program for that evening.

Assembly

(Continued from Page 1, Col. 1)

a combustible material must be vaporized and mixed with air before it can burn.

The last two assemblies have been very successful, because the students knew that the lecturer was an authority on the topics chosen, therefore, the student body has been well represented in the last two assemblies.

E.E. Dept.

(Continued from Page 1, Col. 2)

microphone was set up and a large part of the program picked up on a wire recorder.

The Summer Practice Course was the first object to be brought under the fire of the students who felt that there was too much emphasis on power and not enough on electronics.

Bringing up a second point, the suggestion was made that a specialized course in mathematics be given in place of heat power. In their rebuttal the Faculty said that a large number of men would not make sufficient use of the mathematics later on, but at the same time admitted there was some merit in the idea.

The subject of instruction was then breached by the moderator and one of the student members of the panel promptly submitted the idea that instructors take courses in education at nearby universities for the

purpose of improving methods of teaching and course presentation. While admitting that the idea was worthwhile, the Faculty implied that the fundamental methods of teaching Engineers were different from those of teaching Liberal Arts students. (Some students later remarked that they thought they heard a slight rumbling sound at this point, as William James, Horace Mann and John Dewey simultaneously turned over in their graves.) It was pointed out by the Faculty that a somewhat informal method of instructor training is carried on. A young Faculty member starts as laboratory instructor, works up to class discussion, and is then given the opportunity to make the original presentation of a subject.

Other suggestions from the students followed in rapid succession and included requests that: (1) Department Heads sit in on lectures and recitations to check the ability

and efficiency of the instructors (2) better descriptions of equipment be supplied (3) blanks be passed out to the students at the end of the term and that they grade the instructor on his teaching and also make suggestions for improvement. Lastly, in reply to a Faculty charge that the students did not use proper English, the students said that the example furnished by the Faculty in this respect was not of the best. Moderator Leavitt commented at this point that the suggestion method was largely used in industry and generally gave good results.

The subject of reports brought forth another flood of suggestions. Foremost was one that the laboratory instructors be able to answer questions in regard to the lab instruction sheet; implying that some were not. Secondly, a student requested more definite instructions in regard to the experiments. Here the Faculty scored a good point by saying that they

wanted to get away from the detailed instructions of a cook book and leave a measure of initiative to the students in their treatment of the material. Third, a request was put forward for better directions in the use of the laboratory equipment previous to the experiment. As a final point it was suggested that the marking of courses and computing of exemptions be standardized; also that the system of marking reports with a plus or minus be replaced by the numerical system.

While all discussions at the meeting were carried on without rancor, it was not without humor. The audience was wide awake and submitted questions and suggestions anonymously on small slips of paper provided for that purpose. A lively general discussion followed. The meeting closed harmoniously and all left the hall with the feeling that a significant step had been taken in the progress of education at Worcester Tech.



Research simplifies print making with development of "Varigam" Paper

Chemists and physicists make important contributions

Photographic film that has been overexposed or overdeveloped usually means a "hard" or "contrasty" negative—too much silver is deposited on the highlights in comparison with that in the shadows. The opposite effect, a "soft" or "thin" negative, results from underexposure or underdevelopment. At one time photographers had to stock four or five grades of enlarging paper to correct for these conditions and get the right degree of contrast.

To eliminate this expensive, unwieldy situation, scientists developed "Varigam" variable contrast photographic paper. With "Varigam," the whole procedure of getting different degrees of contrast is reversed. Instead of using several grades of paper, the photographer uses only one. He gets variation in contrast by use of filters that control the wave lengths of light reaching the paper, thereby getting finer degrees of contrast than are otherwise possible.

The action of "Varigam" depends on the ability of certain dyes to extend the sensitivity of silver halide emulsions beyond the blue and blue-green regions. This effect was well known to scientists. But "Varigam" has an added feature—it gives high contrast in the blue por-

tion of the spectrum and is also sensitive to light in the green region, with low contrast.

"Varigam" the work of many men

The first job was one for the physical chemists. Silver halide emulsions, normally sensitive to blue light, had to be made to give maximum contrast when exposed to light in this region.

It was known that certain dyes would extend the sensitivity of the emulsion over as far as the infra-red. But they were not practical for photographic paper, being affected by the red safety light used in the darkroom. Research by chemists showed that certain dyes such as 1:1'-diethylthiopyridine iodide extended the light sensitivity only to the green region. And, most important, they produced low contrast when used in lower-than-normal concentrations. When such a dye was combined with high-contrast silver halide emulsion, the result was an emulsion that gave high-contrast prints when exposed to blue light, and low-contrast prints when exposed to green light.

Physicists Develop Filters

Physicists made this contrast control a reality by preparing sharp-cutting filters that allow the user to control his printing light selectively. These filters,

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Trackmen Edged Out by Mass. U. And U. Conn. in Triangular Meet

Howell and DeLoid Take Five First Places at Amherst

Despite the brilliant showing of freshman Harvey Howell, Tech finished last behind Mass. University and Conn. University in a triangular track meet held at Amherst. Harvey literally flew over the thirty-five yard low hurdles in 4.4 seconds. This time was good enough to break the record at the Amherst track. Harvey also tied the school record when he finished the thirty-five high hurdles in 4.9 seconds. Besides these record runs he took another first place in the thirty-five yard dash. His total for the evening was fifteen points, which led the individual point totals for the evening.

Tech had another outstanding performer in Al DeLoid who took first place in the broad jump and the 440 yard run. Al along with Harvey also ran in the one mile relay.

Mass Univ. won the meet with a total of forty-nine points, Conn. Univ. was second with forty-eight, and Tech was last with forty-three. This should be considered a good showing for Tech. They took five first places in the meet, but lacked the manpower to take the second, third, and fourth places. If our ace pole-vaulter, Don Jordan, had been available, we would have accumulated a total of forty-eight points and a victory. The winning height in the pole-vault was eleven feet, which is much below Don's average. With Don coming out for the spring practice, the team is almost assured of a first place.

In the hammer throw the team is definitely at a disadvantage. In the meet the team had no entries in the 35 pound weight throw and consequently lost a chance to pick up needed points. With a good turnout for spring practice the team should have a good season.

Summary:

35 pound weight throw—Won by Brink (C); 2nd, Janoski (M); 3rd, Janoson (C); 5th, Yergeau (M); distance 35 ft. 4 in.

Pole Vault—Won by Hummel (C); 2nd, Forbes (C); 3rd, Porter (M); 4th, Howe (W); height 11 ft.

1 Mile Run—Won by Clough (M); 2nd, Brown (W); 3rd, Funkhouser (M); 4th, Holby (W); time, 4 min. 43.8 sec.

440 Yd. Run—Won by DeLoid (W); 2nd, Watson (W); 3rd, Kennedy (C); 4th, Marshall (C); time, 55.6 sec.

35 Yd. Low Hurdles—Won by Howell (W); 2nd, Kennedy (M); 3rd, Moynihan (M); 4th, Alling (C); time, 4.4 sec. (Note: new cage record).

35 Yd. Dash—Won by Howell (W); 2nd, Davison (M); 3rd, Simmons (M); time, 4.2 sec.

Shot Put—Won by Feinman (M); 2nd, Borg (W); 3rd, Brink (C); 4th, Zaccaro (C); distance, 43 ft. 7 in.

35 Yd. High Hurdles—Won by Howell (W); 2nd, Kennedy (C); 3rd, Flynn (C); 4th, Rogers (C); time, 4.9 sec. (Note: ties college record).

Two Mile Run—Won by Coffar (M); 2nd, Lazepela (C); 3rd, Channell (M);

I. F. Basketball Opens March 2 TKP vs. ATO

SAE Looms As Threat To Retain Title; TKP, PSK Strong Contenders

With the basketball season ending for the varsity and the J. V. teams, the fraternities take over the gym in the annual fight for the basketball trophy. The teams will battle it out throughout the month of March with each fraternity allowed one crack at the other. Already the teams have been shaping up for the first game on March 2.

Last year found S.A.E. taking top honors in a close race up to the last game. They came out with a record of seven wins and one loss, but had trouble from each second place team. In second place with six wins and two losses were S.P.E., T.K.P., and P.S.K. The best game of last season occurred when S.A.E. nosed out P.S.K. 41-38. However, neither team has its high scorer back in their lineup this year. These men, Hopkins of S.A.E. and Longmuir of P.S.K., were the league's top scorers.

This year finds even closer competition which will make it anybody's ball game. This is due to the gain of strength in last season's weaker teams and very little change in the top teams. S.A.E. was probably hit the hardest by losing Hopkins and several players to the J. V. team. However, J. V. star Art Collins will help replace these losses considerably. They are still a strong threat since they have been winning many league games in the city with Mac Kirkwood pacing the way. Also playing in this league and appearing to have winning material is T.K.P. They will have nearly the same five as last year with Ventres, their center, a dangerous backboard player. S.P.E. shows much promise with an experienced ball club from last season. Throwing them in will be from replacing the loss of Freddie Marvin from the previous season. P.S.K. lost quite a few men such as

4th, Gunn (M); time, 10 min. 27.8 sec. (Note: new school record).

880 Yd. Run—Won by Funkhouser (M); 2nd, Rubin (C); 3rd, Brown (W); 4th, Clubb (C); time, 2 min. 6.4 sec.

High Jump—Won by Rogers (C); and Rawley (C) Tie; 3rd, Howe (W); 4th, tie between Coyle (M) and Humphrey (M); height, 5 ft. 8 in.

Broad Jump—Won by DeLoid (W); 2nd, Hawlings (C); 3rd, Davison (M); 4th, Moynihan (M); distance, 21 ft. 6.5 in.

One Mile Relay—Won by Mass. (Moynihan, Davison, Yergeau, Funkhouser); 2nd, Tech (Howell, Watson, Muthiah, DeLoid); time, 3 min. 39 sec.

R. P. I. TOPS TECH 52-51

Phi Gam Clinches Bowling Crown; SPE, LCA Vie for Second

New Champs Garner High Team Total of 1158 Pins; Woodman Averages 96.3

By virtue of a 4-0 win over Phi Sig, Phi Gamma Delta clinched first place in the Inter Fraternity Bowling Match. The team also went over the high team total, previously held by Sig Ep, by bowling an 1158 total for the three strings.

Phi Gam's team now averages in the 90's. Frank Holby has hit for an average of 94.9, George Howe has 90.7, Hugh Lovell has an even 90, and Herb Cahoon has a 91.1. Thus far Phi Gam has lost only 2 points in the competition, one to AEP and another to TC. Phi Gam has only one match to play, that with ATO. Regardless of how they come out in that match, the cup will go to Phi Gam.

The match between LXA and Sig Ep will probably decide second place in the running. Sig Ep has won 20 and lost 8, whereas LXA has lost but 7. A 4-0 win by LXA could set Sig Ep down to third or fourth place.

Woodman of LCA with a 96.3 and Johnson of SPE with a 96.0 average are leading the league with individual averages.

Team Standings:

Team	Won	Lost
PGD	26	2
SPE	20	2
LXA	13	7
ATO	11	9
TX	14	14
PSK	11	17
TKP	8	20
AEP	8	20
SAE	5	19

Notice

Due to lack of facilities and the meat shortage there will be absolutely no Interfraternity bull-fighting this year.

Bill Longmuir on graduation and John Seguin and Ray Gilbert to the J. V.'s. However, they will have a good club on the floor with the addition of some talented freshmen in reserve. A.E.P. probably shows the greatest improvement with the addition of Buddie Dember and Don Kolodine along with Howie Green. Dember will be the one to watch for top scorer since he was high scorer for the J. V. team last year and high scorer in the fraternity league when he was a sophomore. P.G.D. has been strengthened by Freddie Krauss and freshman Tom Hodgett. T.C., A.T.O., and L.C.A. will be putting out nearly the same five starters as last season. Of these three teams, T.C. has been doing the most preparation and will be plugging for the first division.

Trailing 34-19 at Half Time Tech Rally Falls One Point Short

By IRV HAAS

McKernan, Howard Top Scoring In Addition to Brilliant Floor Games

Worcester Tech's courageous cagers put on a thrilling and dramatic second half rally Saturday evening which fell one point short and brought them their seventh loss of the season as against six wins. Smarting under a 15 point 34-19 deficit at half-time, the Techmen started right after the Trojans in a determined drive with Howard and McKernan leading the way with 13 and 11 second-half points respectively. The thrilling second half display saw Tech start a scoring rush which was climaxed in a whirlwind finish by the 12 point splurge of Howard over the last 10 minutes of play.

Tech jumped off to a fast early lead on the foul shooting of McKernan and baskets by Ucich and Concordia. With Tech enjoying a 17-14 lead and 10 minutes remaining in the half, DeMoss entered the game for R.P.I. and sent them off on a 20 point barrage which started against Tech first five and continued at an accelerated pace against the replacements. Over the last three minutes of the half, R.P.I.'s two diminutive guards Howell and Lessen joined DeMoss in the scoring and contributed heavily to the scoring with their floor work and ball-hawking displays. During this drive which they could not halt, Tech managed but two points against R.P.I.'s 20 and left the floor at half time trailing by 15 big points. Over the entire first half Tech mustered but 5 floor goals, two by Ucich and one each by Howard, Concordia and McKernan.

The second half presented a completely different picture with Tech tallying 12 floor goals and completely outplaying the weary warriors from Troy. Factually Tech outscored the Trojans from the floor by one basket, 17-16, however the excellent foul shooting of R.P.I., 20 for 25, spelled the difference with Tech gathering 17 for 23 via the charity stripe. Bob Carlson hit for Tech's first second half basket and departed shortly thereafter on the wings of his fifth personal. Converse and Freeland alternated at his post over the remainder of the game and played well, although their reluctance to shoot was at times quite distracting.

McKernan, playing his final game for Tech, turned in another stellar performance at the pivot post and connected for 5 baskets and 8 free throws to lead the scoring with a total of 18 points. Howard was second in a scoring way on the strength of his strong second half play with 17 points, five coming from the free throw line. Ucich played a steady game and joined the scoring with 9 points, 1 from the foul line. The men of Troy countered the high scoring of McKernan and Howard by placing 4 men in double figures. DeMoss and Zeno had 11, while guards Havel and Lessen had 10 apiece.

The game was also the final one for Capt. John Concordia and Roger Cromack. Concordia played his usual fine floor game and in addition sparkled off the boards. Jim McKernan played a brilliant game against the altitudinous defensive wall of DeMoss, Zeno, and Schaffer and, aided strongly by Howard, controlled the defensive boards well. Freshman Howard has come into his own in a scoring way of late, ringing up 48 points over the last 3 games.

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RENSELAER			WORC. TECH.				
fg	fp	tp	fg	fp	tp		
Brower f	2	0	4	Howard f	6	5	17
DeMoss	3	5	11	Freeland	0	1	1
Zeno f	3	5	11	Carlson f	1	1	3
Schaffer c	2	0	4	Converse	0	0	0
Gozelnik	0	2	2	McKernan c			
Havel g	2	6	10		5	8	18
Lessen g	4	2	10	Cromack	0	0	0
Cabill	0	0	0	Ucich g	4	1	9
				Bradlaw	0	0	0
Totals	16	20	52	Concordia g			
					1	1	3
				Totals	17	17	51

Halftime score: Rensselaer 34, Worc. Tech 19.

Free throws missed: Rensselaer, Zeno, Havel 2, Lessen, DeMoss; Worc. Tech., Howard, Carlson, McKernan 2, Concordia, Ucich.

Personal fouls: Rensselaer, Brower 2, Zeno 3, Schaffer 5, Gozelnik 5, Havel 2, Lessen 2, DeMoss, Worc. Tech., Carlson 5, McKernan 3, Ucich 4, Bradlaw, Concordia 4. Referees, Ed Frew and Ed Dorsey.

CLASSICAL			TECH. JAYVEES				
fg	fp	tp	fg	fp	tp		
Heon f	1	1	3	Griswold f	1	1	3
Kasper	1	0	2	Group f	4	2	10
Budish f	3	3	9	Lace	1	0	2
Bianchi	0	0	0	Dillon c	3	1	7
Junis c	2	0	4	Bloom g	1	1	3
Patrick g	3	1	7	Sequin	0	0	0
Logan	0	0	0	Michelman	0	0	0
Orczyk g	3	1	7	Grimwade g			
Sadowski	0	0	0		0	1	1
				Edwards	0	0	0
				Lewis	0	0	0
Totals	13	6	32				
				Totals	10	6	26

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Engineers Trounce A.I.C.; Edge Mass. U. at Amherst

McKernan, Howard High Scorers for Tech Quintet

Season Record Evened Up at 6 and 6; Team Has Three Game Win Streak Worcester Tech vs. A.I.C.

The Worcester Tech hoopsters followed up their triumph over the Tufts Jumbos last week-end by soundly trouncing the Aces from A. I. C., 50-32. Led by their defensive demon, Captain John Concordia, the Engineers played steady ball, and outdid the yellow and black cagers at their own style, speed. Ritchie Howard, coming into his own, swished the nets with 7 double pointers and 3 foul shots for a 17 point total, while his backboard work left nothing to be desired. Following Howard in the scoring column with 12 points was Jim McKernan. Big "Mac" helped the cause further by shacking the visitor's hefty pivot man, Jones, holding him to one field goal.

The Aces opened up the scoring with a foul shot to put them in the lead 1-0. They led from there till the 12 minute mark when the home cagers edged ahead, 12-11. With three minutes remaining in the first half, the Engineers had fashioned a 22-15 lead. But at this point, Al Beaudoin, bespectacled forward for the visitors, entered the game and dropped 3 quick pops from the key-hole to bring the Aces to within 2 points, 22-20, as the half ended.

The second half was a thriller for the first few minutes as the Springfield team took the lead at 28-27. But the Boynton Hillers jumped in the van again at 29-28, and they were off. Displaying a brilliant floor game, with Concordia picking off opposition passes at an unbelievable pace, the home team surged to the fore, 43-32. With three minutes remaining in the contest, Coach McNulty threw in his squad of reserves, who added 7 more points to the total to make the final score 50-32.

Top scorer for the A. I. C. cagers was their forward, Beaudoin, with 12 points. For our Engineers, in addition to the excellent playing of Concordia, Howard and McKernan, sophomore John Converse filled in remarkably for Bobby Carlson at the forward post when Bob was

ejected on fouls, and Steve Ucich performed in his usual steady style. The victory was the fifth of the season for the Tech five, and brought their record to five wins and six losses.

Worcester Tech vs. Mass. U.

Scoring the first away from home victory of the season, our Tech Engineers came out on top for the third consecutive game by outlasting a stubborn Mass. U. quintet, 41-35. Although they led throughout most of the contest, it wasn't till the final minutes that they lengthened their lead to a point where they could coast home. As in the A. I. C. game, the two top point-producers were Ritchie Howard and Jim McKernan, with 14 points apiece. Captain John Concordia continued his terrific defensive maneuvers in addition to hitting the strings for 7 points.

For the home team, Bill Looney, high scorer for the Amherst five in a previous meeting between the two teams, was again in double figures with 16 points. Captain Ed McGrath also played well, along with Richardson.

The game started out slowly, with Tech grabbing an early lead. However, the Redmen went ahead at 9-8 midway through the first stanza. After Howard had knotted the count at 9-9 with the first of his two foul conversions, the Boynton-Hillers went ahead to the four point lead which they held at the half, 22-18.

The visitors led throughout the entire second half except for one lapse, the last effort by Mass. U. to surge in front. With two minutes left, the Engineers had an eight point lead, and it was all over except the shouting.

The victory was sweet revenge for an earlier defeat at the hands of the Redmen, in a game scheduled two days after the mid-term layoff. That game ended with Tech on the short end of a 38-36 score. This second game was similar to the first in so far as roughness and low-scoring go, with many spills being taken and many fouls being called. The team as a unit maintained the good floor game, especially defensive, which they have flashed in the past three games. Coach McNulty's charges have now evened up the season's record at 6 wins and 6 losses.

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