

The Tech



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VOL. LV. NO. 30

CAMBRIDGE, MASSACHUSETTS, FRIDAY, SEPTEMBER 30, 1955

5 CENTS

Canadian Minister Clarence Howe '07 Main Speaker At All-Institute Convocation In Kresge Monday

The Right Honorable Clarence D. Howe '07 Canada's Minister of Trade and Commerce and Minister of Defense Production, will be the principal speaker at an all-Institute convocation to be held in Rockwell Cage at 11:00 a.m. next Monday.

President James R. Killian, Jr. will preside and will make an announcement of extraordinary importance to the Institute community. All classes will be suspended from 11:00 a.m. until 12:00 noon on the day of the convocation to permit everyone to attend.

Other speakers on the program will include Dr. Martin J. Buerger, Chairman of the Faculty; Christopher J. Newton, president of the Graduate Student Council; and John S. Saloma '56, president of Institute Committee.

Members of the Corporation and their wives will be guests of honor at the convocation, and music will be furnished by the glee club under the direction of Klaus Liepmann and by a brass choir to be conducted by John Corley, director of the concert band.

Mr. Howe, who is a graduate of the Institute and a member of its Corporation, has long been a leading public figure in Canada. He was elected in 1935 to the House of Commons and appointed Minister of Railways and Canals and Minister of Marine; in 1936 he became the first Minister of Transport. In the latter post he established the National Harbors Board, the Canadian Broadcasting Corporation, and Trans-Canada Airlines which was Canada's first trans-continental airway system. He also reorganized the administration of the Canadian National Railways.

He served on the War Supply Board in 1939 and was Minister of Munitions and Supply from 1940 to 1944. He was responsible for the Department of Reconstruction in 1944, and in 1946 this Department and the Department of Munitions and Supply were merged under his direction as Minister of Reconstruction and Supply. A member of the Imperial Privy Council, he has been Minister of Defense Production since 1951.

He is a member of the Association of Professional Engineers of the Province of Ontario and of the American Society of Civil Engineers, and holds honorary memberships in the Engineering Institute of Canada and the American Society of Mechanical Engineers.

A graduate of MIT in 1907, he served as an assistant in the Department.

(Continued on page 4)

Taylor Named To New Metallurgy Chair

A new Chair of Metallurgy has been formed at MIT to honor Professor Howard Taylor. It is the first such Chair ever to be established in the field of Foundry Metallurgy. The American Brakehoe Company, which has long been supporting Professor Taylor's program, has set up this endowed shares professorship in recognition of his work. The principal task of foundry metallurgy is the application of methods to clear a profit from the casting of various metals that are difficult to handle or control. Professor Taylor has been instrumental in creating interest in this field by his work in conjunction with nearby foundries. Both undergraduate and graduate students interested in this and allied applications have an opportunity to

work at the problems connected with foundry metallurgy techniques.

The problems that Professor Taylor has worked on include the avoidance of dissolved gases during the casting process which, upon cooling, evaporate, leaving holes in the metal—making it useless, and the contraction or "shrinkage" of metals as they cool, resulting in bad castings. This last problem is one which required special design of casting to allow for the shrinkage. The problem has been partially solved by the use of aluminum castings. Problems now being worked on include the handling of titanium in foundry processes, which may be of great importance to industry.

The endowment of the new chair will include Professor Taylor's salary and research grants for his program.

Institute Announces Faculty Member Promotions

Three members of the Institute staff have recently been promoted to higher positions in their departments. They are Professors Gordon J. MacDonald, Robert L. Beare, and Gordon Shillinglaw.

Gordon J. MacDonald has been promoted to associate professor of geology in the Institute's Department of Geology and Geophysics. Professor MacDonald is a graduate of Harvard University (A.B., A.M., Ph.D.) where he served as a teaching fellow and a junior fellow. Dr. MacDonald joined the MIT staff in 1954 as an assistant professor.

Robert L. Beare has been appointed

assistant professor in the Department of Modern Languages. Dr. Beare has held positions at the University of Pennsylvania, Columbia University, City College of New York, and Princeton University. He received his degrees (A.B., A.M., Ph.D.) at Yale University.

Gordon Shillinglaw is the newly-appointed assistant professor in the School of Industrial Management. He was graduated from Brown University (A.B.), the University of Rochester (M.S.), and Harvard University (Ph.D.), and has served as assistant professor of economics at Hamilton College.

Inscomm Approves Record Technique Expansion; Field Day Procedural Rules Partially Revised

The 1956 TECHNIQUE will be bigger and better than last year's, and will embody certain features never before found in a college yearbook—according to its editor, Bill Leitch '56—who spoke at the Institute Committee meeting on September 28. He declined to elaborate on the exact nature of these special features "in order to keep the book a surprise." He did say, however, that the book will be 9 x 12 and will have 340 pages, including four full four-color pages.

Tutor? Apply Now

Applications for approval as student tutors for 1955-1956 may be obtained from Miss Fitzgerald in Room 7-133. Members of the three upper classes and graduate students who do not hold teaching appointments at MIT are eligible. Applications should be returned to Room 7-133 as soon as possible. Approval is not granted for student tutoring in Humanities, Modern Languages, or in junior and senior courses.

Underclassmen who believe they need the help of an approved student tutor should inquire of Miss Fitzgerald in Room 7-133. The maximum charge for tutoring is \$3 an hour.

The 1956 TECHNIQUE will also be more than three thousand dollars more expensive than its predecessor, a fact weighed heavily by the Institute Committee, which, after a lengthy discussion, approved a \$2600 appropriation (ostensibly for 104 pages of Inscomm affairs at about \$26 per page).

During the discussion, numerous questions were directed at the various items in the TECHNIQUE's overall budget. One of these items was an expenditure of \$300 for "mailing." It was pointed out that this amount would pay for 10,000 three-cent stamps.

The committee also called attention to the fact that TECHNIQUE has a reserve fund of \$4,592.23 of which virtually nothing will be used to defray the cost of printing the 1956 book.

In its second important move of the day Institute Committee approved the new Field Day rules which include several important changes concerning the Purple Shaft event:

1. There will be "no duplication" of the Purple Shaft.
2. In the presentation of the Purple Shaft to the opposing class, no motorized vehicles may be used.
3. When the Purple Shaft is presented, 10% of the opposing class must be present.

The other Field Day rules remain

(Continued on page 4)

Boston Symphony Orchestra To Perform; Will Be Televised From Auditorium Monday; First Coverage Of The Orchestra By TV

The Boston Symphony Orchestra Concert at Kresge Auditorium, Monday, October 3, will be the occasion of the first full length telecast from the Auditorium. WGBH-TV will carry the broadcast as the kickoff in a series of classical music television programs.

First Symphony Telecast

This will be the first regular coverage of the famed Boston Orchestra as well. The concert will feature Berlioz' "Fantastic" Symphony, Ravel's "Daphnis and Chloe" (Suite No. 2) and Debussy's "La Mer." A sellout for almost a week, this is one of the top musical events at the Institute in several years.

The cameras will be operating in an auditorium almost ideally suited to television coverage. The carefully designed "cloud" baffles make Kresge near perfect acoustically and the lighting system is more than sufficient and no additional floodlights will be

needed to satisfy the exacting video lighting needs. Plans have been made to use two cameras, one in each of the two choir lofts high above the sides. The sides of the lofts will hide the cumbersome and distracting cameras and equipment without detracting from satisfactory camera coverage.

Interviews will be held during the intermission with Dr. James R. Killian, President of the Institute and with Mr. Ralph Lowell, member of the Corporation.

WGBH-TV began broadcasting on May 2, 1955 on television channel 2. It is owned and operated by the Lowell Broadcasting Council, a cooperative non profit organization whose contributing members are MIT, Harvard, Boston University, Lowell Institute, the Boston Symphony, the Boston Museum of Fine Arts, New England Conservatory of Music, Northeastern University and Tufts University.

DormCon Sets Up Subcommittees In Expansion; Granted Full Power To Decide Dormitory Policy

The Dormitory Council met for the first time this academic year in Burton Lounge last Tuesday night. The Dormitory Development Committee has given the Dormitory Council complete sovereignty in the field of formulating and administering policy in dormitory life ranging from open-house rules to the handling of property damage. This sovereignty is granted on a one-year trial basis. Its extension depends on the results of this year's experiment.

To prevent the Council from bogging down while in full session, President Amster proposed that committees be formed to discuss the various phases of dormitory life. The Council will then act on the committees' reports. The committees to be formed include:

1. Committee on Dormitory Living which will handle such matters as open-house rules, inter-dorm activities, property damage, etc.

2. Orientation Committee which is to discuss ways and means of easing the adjustments that have to be made by foreign and freshman students as they take up dormitory residence.

3. Election Rules Committee.

4. Parking Committee which will investigate the difficult parking situation with reference to dormitory students parking.

5. Dining Committee which will seek to formulate specific recommendations which might better dining hall conditions.

6. Athletics Committee which will attempt to stimulate the participation of a greater percentage of dormitory residents in intramural sports.

The Council also discussed the agenda of the upcoming Leadership Conference and after the review of some old business, the session came to a close. The next meeting will take place on Monday, October 10.

East Campus Scene Of Fire Scare Monday Night; 13 Fire Engines Answer Summons From Dorm

Thirteen fire engines answered the call from East Campus Dorm fire Monday night, September 26. The alarm was turned in to the desk staff by a resident of the fifth floor of the Hayden unit who came running down stairs to the dorm office to report "heavy, dense chemical smoke" on the

fifth floor of the dorm. Upon further quizzing he explained that the source of the smoke seemed to be in Hayden Dorm. He added that he had closed the doors between Hayden and the adjoining dorms.

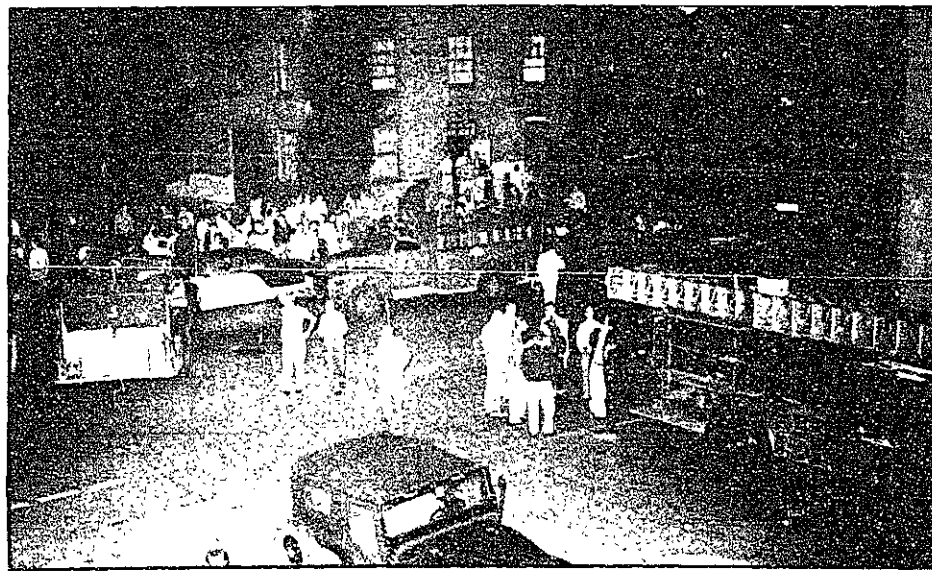
Just at this point a resident of the fifth floor called the switchboard to

ask if the fire department had been called. With this additional verification it was felt that the fire department should be called. A call was placed on the Institute fire alarm system and the Cambridge Fire Department was summoned.

The fire company arrived complete with thirteen pieces of fire apparatus.

Hoses were strung out across the court between the parallels, and the firemen investigated the source of the alarm. It was revealed that the cause of the smoke was some paper stuck in the trash chutes of the Hayden incinerator. After gathering up their hoses and their thirteen vehicles the fire-fighters retired from the scene.

Instantly stories began to circulate as to the cost of this escapade, estimates running from \$25 to \$50 per vehicle. Some claimed that the East Campus House Committee would have to pick up the tab. Other learned persons figured that some students' tuition would go to the fire department. However, an interview with the deputy fire chief revealed that there will be no cost to the Institute or to the student body.



The TECH photo—William Heess

Busy firemen extinguish non-existent fire at East Campus

The Tech



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IVORY TOWER

by Berthold Lippel '56

Last Friday night, Morss Hall was the scene of the opening event of the social season of this term: the All Tech Dance. Judging from the crowds it attracted, it seemed indeed as if all of Tech had come down to swing and sway and get acquainted with the hundreds of lovelies that were expected.

As usual at such events, the lobby was at first more crowded than the dance floor. Taking a survey of the situation, the groups of Techmen milled around, debating the outlay of \$1.25 against the chances of meeting a female of the opposite sex. The view of entire platoons of girls filing into Morss Hall, however, convinced even the most careful soul, and the tickets sold like drawing boards in September. Many of the girls seemed quite taken aback at having to pay money to get in and complained bitterly about this undesirable expression of the equality of the sexes. Most of them paid up, however, and upon entrance, were adorned with a stamp on the hand, a procedure reminiscent of the government inspector in a Chicago meat-packing firm . . .

Morss Hall itself was decorated with a profusion of colorful balloons. It was also plunged in a cavernous darkness, which produced atmosphere, but made the selection of a dancing partner a somewhat risky proposition. Hal Reeves and his boys provided the music and did a creditable job, keeping the melodies sweet and the mambos rare.

All the standard characteristics of the typical acquaintance dance were in evidence. The tight groups of boys trying hard to look indifferent and sophisticated, and discussing 8.031 among themselves with religious fervor. Teh "cattle-buyer" making his concentric rounds again and again, appraising the merchandise with an experienced and dispassionate eye. The chilling females who came to experience the rare pleasure of repeating acidly ". . . no thank you, I don't feel like dancing . . ." The exhibitionistic Charleston couple. The obnoxious fellows who cut in, erasing the fruits of a laborious build-up. The clenched and stary-eyed couples who have discovered love on first night and first sight. In short, a real, honest-to-goodness, genuine acquaintance dance atmosphere, exactly like all the past ones and like all the future ones.

During intermission, a Dixieland band from Northeastern played a few numbers. As Dixieland goes, it was rather lukewarm and lacking in spirit; the "Saints" shuffled instead of marching in.

All in all it was a pretty well organized affair. Many telephone numbers found their way from maidenly lips into black booklets. Most everybody seemed to have a good time, especially the ticket vendors at the door gleefully counting their wads of lovely, green bills.

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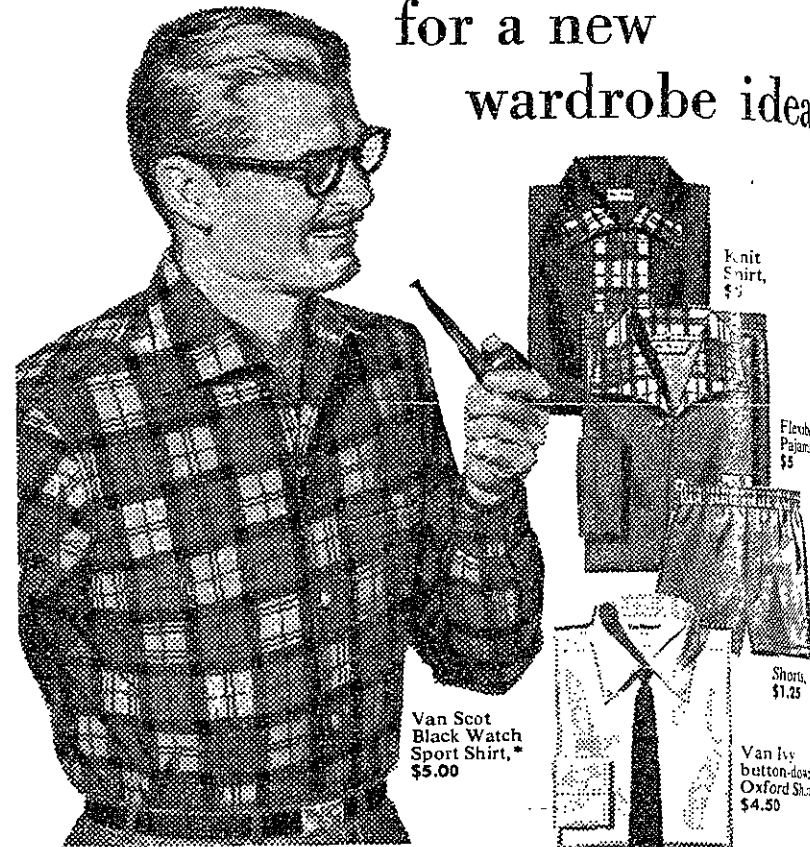
The First Church in Boston (Unitarian) invites you to this Sunday's service, where the Rev. Duncan Howlett will preach the sermon:

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Editorial

TOO WHOLE MEN

We are constantly belabored by administrative declarations: "We want to produce the whole man, the man who can hold a position of responsibility in society. A well-rounded man, who reads, who participates extra-curricularly—or co-curricularly, as the fashions now go. We don't need just plain engineers and scientists—what we need are men with broad training."

We've heard it. We're getting them. But our whole men have holes. The Institute is turning out "whole" men. They aren't very good engineers or scientists.

The Institute cannot claim any Nobel Prize winners. The Institute does not put a premium on thought, understanding, originality. Here success is measured in the number of formulae and equations memorized. He who does sheets of problems goes through with a 4.5 and if he is lucky, he discovers sometime in the middle of the senior year that he knows nothing. He doesn't know what he is doing. If he still cares, he spends the rest of the year trying to learn what happened to the first three years.

You don't believe it? You say you know a lot. Look at all the 8.03 problems, the 5.62 problems I can solve. All right. What is a field? What is potential? What is the basis of the Mass-Action law? What are Van der Waal's forces? You don't know.

And it isn't the student's fault. That's the pathetic thing. When he comes here possibly fired with a little enthusiasm for his chosen field, he gets the inspiration kicked out of him by sheets of problems, quizzes of problems, finals of problems. He gets behind, needs help. He goes to the Associated Tutors where he learns to do specific problems which statistics predicted unerringly would be on tomorrow's quiz. Five minutes after the papers are collected he forgets how to do the problems—he never knew enough theory to forget.

What greater condemnation of the Institute's standards. People pass courses on the basis of a three-hour poop session.

We are "the gray factory on the Charles", but not because of too little time and thought devoted to human considerations. Because of too little time devoted to the implementation of sound educational policies.

Social Security in 3 seconds

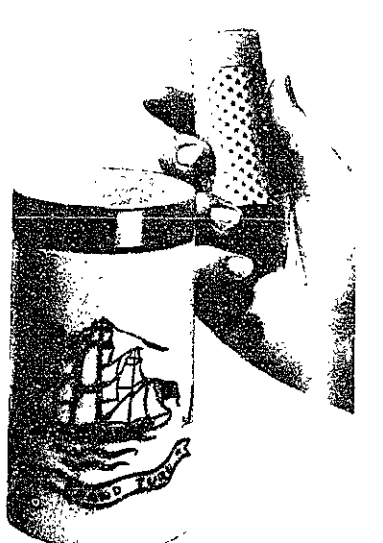


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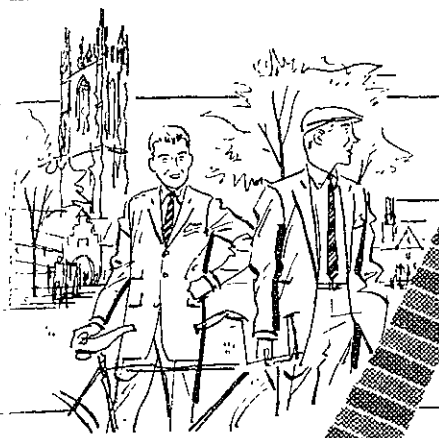
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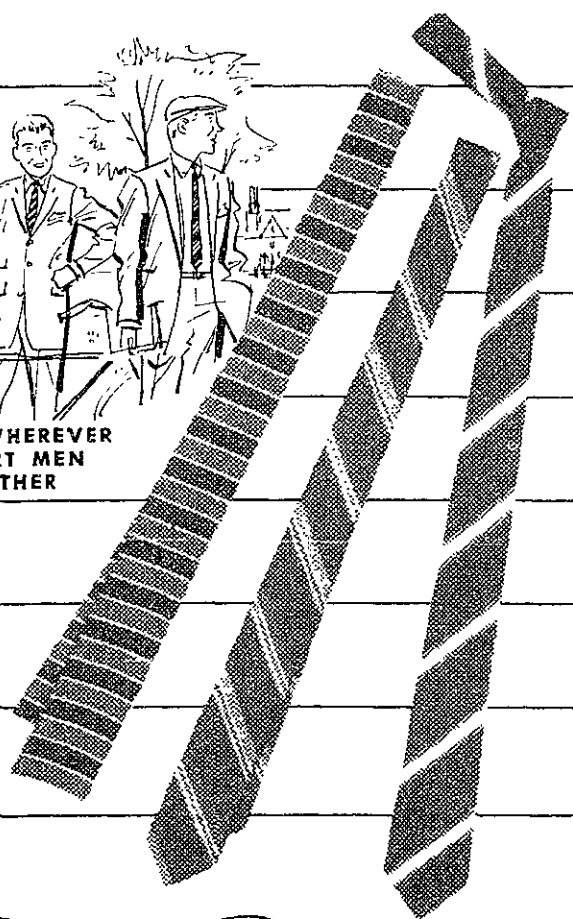
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New Athletic Director Richard Balch States Policy

by F. Helmut Weymar '58

When we heard that one Richard L. Balch had been appointed Athletic Director, succeeding Ike Geiger, who died last January, and Roy Merritt, who has been acting director in the interim, several questions naturally came to mind. What was his ground? What would be his general athletic policy? What were his opinions on intercollegiate football, on field day athletics, on MIT and athletics in general? Finally, how would his personality fit into the Tech picture. After a pleasant hour long interview, we can only say that he should come quite close to filling the very large shoes left for him by Professor Geiger, which is about a fine a thing which could be said about anyone.

Born in Evanston, Illinois in 1918 of New England parentage, Balch moved to Pasadena, California while he was still quite young. While attending Pasadena High, Balch played basketball, baseball, track, and football, captaining the gridiron team his senior year. Upon graduation, Balch received a substantial academic scholarship to Union College in Schenectady, New York, where he played basketball, track, lacrosse, and three years was varsity quarterback on the football team. After obtaining his degree in 1941, Balch worked as a claims adjuster for an insurance company for four months, after which he enlisted in the navy. Upon discharge as a lieutenant in 1946, Balch worked for a year as a purchasing agent for a pump manufacturing concern, after which he returned to Union as an assistant to

bush leaguer

by Bill Daly '58

Football takes the spotlight in intramural sports this weekend as all 32 teams take the field in the opening round of the double elimination tournament. Four leagues will be run with the winners in each competing in a round robin tournament for the championship. The leagues were picked by a drawing with the winners and runners up from last year being split between the leagues.

In league one Phi Delt and Sigma Chi look good while league two looks rough with ATO, Beta, Delta Tau Delta, and Kappa Sig all fielding strong teams. SAE looks good in league three but Baker, East Campus, and Grad House are all dark horses. Theta Chi and Sigma Nu are the seed-

ed teams in league four but Phi Gam looks good.

Schedule for this Weekend

- LEAGUE 1—SATURDAY 1:30 p.m.
Field 1—Phi Delta Theta vs. Course 17.
2—Theta Delta Chi vs. Theta Xi.
3—Sigma Chi vs. Grad House Dining Staff.
4—Pi Lambda Phi vs. 5:15 Club.
LEAGUE 2—SATURDAY 3:15 p.m.
Field 1—Delta Tau Delta vs. Phi Beta Epsilon.
2—Beta vs. Phi Kappa Sigma.
3—Kappa Sig vs. Student House.
ATO vs. AEPI.
LEAGUE 3—SUNDAY 1:30 p.m.
Field 1—SAE vs. East Campus.
2—Baker vs. Phi Mu Delta.
3—Sig Ep vs. Lambda Chi Alpha.
4—Grad House vs. Chi Phi.
LEAGUE 4—SUNDAY 3:15 p.m.
Field 1—Sigma Nu vs. TEP Club.
2—DU vs. Phi Sigma Kappa.
3—Theta Chi vs. Phi Kappa.
4—Phi Gam vs. SAM.



Courtesy MIT Photo Service

RICHARD L. BALCH

the president. Following a two year stay at Union, Balch was appointed Counselor of Men at Stanford University, where he remained until his recent appointment here.

Mr. Balch's general athletic policy will aim first and foremost for the close integration of the athletic and academic branches of the Institute. "We will endeavor," says the new director, "to have the athletic program promote, and not intrude upon, the intellectual program at the Institute. It will basically be a three point program, made up of intercollegiate, in-

(Continued on page 4)

SATURDAY, OCTOBER 1
is "GET ACQUAINTED" day at

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notices

SYMPHONY ORCHESTRA OPENINGS

The MIT Symphony Orchestra still has openings for string players. All those interested should attend the next rehearsal on Tuesday at 7:30. The rehearsal will be held on the stage of Kresge Auditorium.

RAILROAD CLUB OPEN HOUSE

The Model Railroad Club will hold an open house today, Friday, September 30, in Room 20-E216 from 4:00 to 6:00 p.m. and from 7:00 to 9:00 p.m.

Convocation

(Continued from page 1)

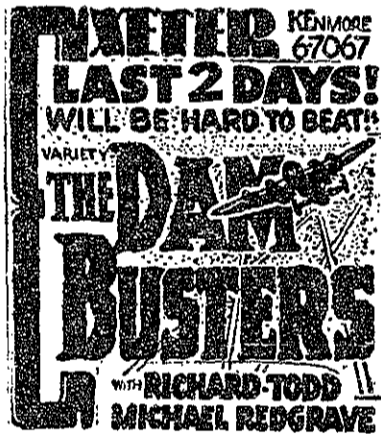
ment of Civil Engineering here for one year prior to becoming Professor of Civil Engineering at Dalhousie University in 1908. He became chief engineer of the Board of Grain Commissioners in 1913 and formed his own company of consulting engineers in 1916.

Mr. Howe has received honorary degrees from a number of U. S. and Canadian universities, and other honors include the United States Medal for Merit, the Award of Merit of the American Institute of Consulting Engineers, the Hoover Medal of the American Society of Civil Engineers, and the Daniel Guggenheim Medal awarded jointly by the Society of Automotive Engineers, the American Society of Mechanical Engineering, and the Institute of Aeronautical Sciences.

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Cross Country Team To Open Season

After a great season last year the Beaver Cross Country team will open defense of its New England Championship this afternoon at 3:00 p.m. in Franklin Park. Dartmouth and Boston University will provide the opposition for Captain Ray Smith '56 and crew.

With Smith, Pete Carberry '57, Bob Solenberger '57, and Dave Vaughan '57 returning from last year's squad,

coach Oscar Hedlund has a strong nucleus for this year's team. Ed Carter, Glen Bennett, Paul Kossler, and Chuck Ingraham move up from the freshman team while Jon Walters '57 and Jack Raymond '58, both running for the first year, round out the squad. Smith, Solenberger, Vaughan, Carter, and Walters should be the top men as the team shoots for another undefeated season.

Inscomm

(Continued from page 1)

the same. As usual, there will be swimming, crew, and relay races and a tug-of-war, each worth three points; a football game, worth four points; the Purple Shaft, worth one point; and the glove fight, worth six points; making a total of 23 points.

The first event to be held will be the first pull of the tug-of-war, two weeks before Field Day. The winner of this event will be awarded the Purple Shaft. The class in possession of the Purple Shaft on noon of Field Day will be awarded the one point.

The administration of Field Day is vested in the Field Day committee under its chairman, Martin Reiss '56.

Balch

(Continued from page 3)

tramural, and the so-called "carry-over" athletics, or sports which can still be enjoyed during later life."

Concerning intercollegiate football, Mr. Balch strongly believes that the program at Tech cannot bring football in and provide competition on an equal plane with other schools due to the extreme lack of time on the part of the students. The field day system is deemed "outstanding" by the new director, with the possible exception of the fact that under student coaching the tackle football squads may not be perfectly in shape, and the appointment of an overall field day football coach may be in the offing.

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A SNACK TO A FULL COURSE DINNER

Simeone's

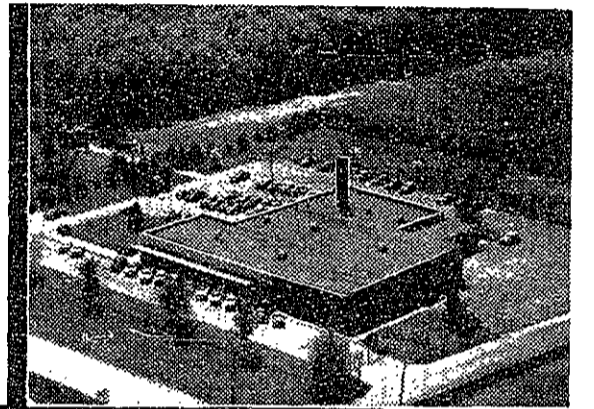
ITALIAN-AMERICAN RESTAURANT

21 Brookline St., Cambridge, Mass., off Mass. Ave.

Tel. ELiot 4-9505

What's doing

at Pratt & Whitney Aircraft



Working engineers of P & W A, waiting for classes to begin at R.P.I.'s new graduate center. Courses include Aeronautical Engineering, Physics, Mathematics, Nuclear Technology, Management Training.

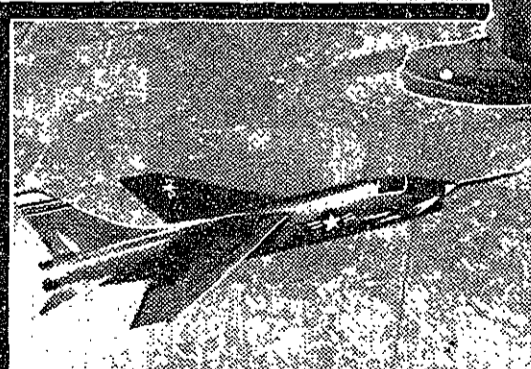
Here's something unique in education.

Near the Pratt & Whitney Aircraft plant in East Hartford, Conn., a full-fledged graduate center was established this fall by Rensselaer Polytechnic Institute. Located 115 miles from R.P.I.'s home campus in upper New York State, the new graduate facilities will enable working engineers from Pratt & Whitney Aircraft and other companies in the Hartford area to continue their studies. Without interrupting normal employment, it will be possible for students to obtain advanced degrees in specialized fields from the nation's oldest engineering college.

Designed to raise the level of knowledge and to broaden the base from which advanced research can be approached, this entire program will simultaneously lead enrolled engineers to greater achievement in their careers.



First 702 Computer in East. Just installed, this advanced I.B.M. computer joins earlier electronic marvels that played a vital role in the development of Pratt & Whitney Aircraft's famed J-57 jet engine.



Newest Supersonic Fighter. The Chance Vought F8U, latest in a growing group of military aircraft to fly faster than sound. Like most other record-breakers, it is powered by a P & W A J-57 turbojet.



Last Wasp Major, most powerful piston engine ever developed, is shipped by P&WA. This marks the end of an era as turbojets take over as the source of power for heavy bombers, transports and tankers.

PRATT & WHITNEY AIRCRAFT

DIVISION OF UNITED AIRCRAFT CORPORATION • EAST HARTFORD 8, CONNECTICUT

World's foremost designer and builder of aircraft engines