

The Technology Review

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No. 2

A GREAT HEGIRA TO PITTSBURGH

Large crowds will attend the third meeting of the Technology Clubs February 19-20—Some novel features are in preparation

As preparations progress for the third annual meeting of the Technology Clubs Associated, it becomes evident that this new feature in Technology social life is becoming very popular, as men all over the country are looking forward to it and arranging to go if they can possibly do so.

The program for the two days' entertainment has been carefully prepared, and is announced on another page. The keynote of the whole affair will be simplicity and sociability. It will differ from the former meetings in that members are urged to bring their wives, and arrangements have been made so that the ladies will feel that they are as much a part of the program as their husbands.

That the general objects of the meeting will be accomplished cannot be doubted when it is known that every member of the Pittsburgh organization is an active member of some committee, and, as there are about 125 men in that district, it goes without saying that every last little detail will be looked out for with greatest care.

Another element that is working toward the success of the convention is the neighborly spirit of the local associations within striking distance. Pittsburgh is favorably located in this respect as it is in the midst of a group of active, interested clubs that will send a large proportion of their mem-

bers. These clubs are arranging to have their delegates go in a body, and Pittsburgh is arranging to have reception committees meet the trains and escort the delegates to headquarters.

Arrangements are being made for two unusually interesting exhibits. One is an exhibit of the architectural department, and the other is an exhibit made by the Institute Committee showing the scheme of organization of the students, with an organization chart showing the relations of the Institute Committee to the student body and the various activities.

As was announced by the secretary of the clubs in the January REVIEW, one important characteristic of the meeting will be to make it of concrete value to the Institute by giving an opportunity for open discussion at the course luncheons. This will be a unique feature of the convention and former students are invited to freely express their views in regard to additions or modifications of the curriculum. This discussion is to be of a constructive nature, and will include suggestions as to how the Institute can interest its students in public affairs so that after graduation they may have a strong influence on the side of good citizenship.

Please bear in mind that few cities in the country could afford a greater variety

THE THIRD ANNUAL CONVENTION

TECHNOLOGY CLUBS ASSOCIATED

PITTSBURGH, FEBRUARY 19-20, 1915

Official Headquarters: Hotel Schenley, Grant Boulevard and Forbes Street

PROGRAM

FRIDAY, FEBRUARY 19

- 9.00 a. m. to 12.00 m. Registration and informal reception at headquarters, the Hotel Schenley.
Be sure to register as a trophy will be presented to the individual coming from the greatest distance to attend the reunion.
Registration facilities will be provided for the ladies.
- 12.30 p. m. Class luncheons at Hotel Schenley or at clubs in the immediate vicinity. Tickets \$1.00 each.
- 2.00 p. m. Excursions: These will be made in small parties with competent guides and the committee having the excursions in charge will arrange them so that in case of conflict it will be possible to make any given trip on either Friday afternoon or Saturday morning.
A complete list of the excursions in which a number have indicated their interest will be posted at the Registration Bureau. In addition to this, the committee will endeavor to make all the necessary arrangements and furnish a guide for any of the visitors wishing to visit points not on this list.
At many of the points of interest arrangements will be made to entertain the ladies who care to accompany their escorts on excursions.
In the late afternoon tea will be served for the ladies at the Hotel Schenley or one of the nearby clubs.
- 8.30 p. m. Smoker at the University Club, given by the members of the Pittsburgh Association in honor of visiting alumni. This smoker will be entirely informal in character and as the reunion will be in full swing by that time, it is expected to be an occasion of general merriment and jollification. The smoker will be preceded by a brief business meeting of the Technology Clubs Associated, at which officers for the ensuing year will be elected and the place of the next meeting will be chosen.
Through the courtesy of Director Hammerschlag of the Carnegie Institute of Technology, the ladies will be entertained on this evening in the theatre of the Institute.

SATURDAY, FEBRUARY 20

- 9.00 a. m. to 12.00 a. m. The excursion program will be continued as on Friday afternoon.
- 12.30 p. m. Course Luncheons: These will be served in six groups at or near headquarters. Tickets \$1.00.
At each of these luncheons constructive comment and criticism of the educational work of the Institute will be offered by various alumni and a representative of the Institute instructing staff, in most cases the head of the department concerned, will be present to take part in the discussion.
Early returns indicate a great amount of interest in this event which is a novel one for Technology gatherings.
Saturday afternoon, tea will be served for the ladies through the courtesy of Chancellor McCormick in one of the buildings of the University of Pittsburgh.
- 7.00 p. m. Annual Banquet of the Technology Clubs Associated at the Hotel Schenley. Tickets, \$3.00 per plate.
The ladies are cordially invited to attend the banquet with their escorts. The older practice of providing special tables for the ladies will not be followed.
The speakers will be President Maclaurin of the Institute, President Lowell of Harvard, President Horn of the M. I. T. Alumni Association and others.
In the course of the banquet, stereopticon views of the new buildings as they appear within one week of the reunion will be shown. The trophies for the class having the largest attendance at the reunion and for the individual coming the longest distance, will be presented at this time.

Mr. H. A. Rapelye, '08, Oliver Building, Pittsburgh, Secretary of the General Reunion Committee, will be glad to answer any letters addressed to him requesting further information regarding the meeting. It is suggested that those planning to attend the reunion make reservations at the Hotel Schenley at the earliest possible date. Anyone preferring to stay at one of the clubs in Pittsburgh should promptly notify the Secretary to that effect.

GENERAL REUNION COMMITTEE

W. E. MOTT, '89	T. H. BAKEWELL, '75	A. B. HARLOW, '79
W. H. REA, '79	D. S. BISSELL, '81	GEO. FAUNCE, '82
C. S. ROBINSON, '84	W. B. BLAKE, '87	W. C. CUSHING, '87
J. O. HANDY, '88	A. B. BELLOWES, '89	FRED CRABTREE, '89
W. C. FOWNES, JR., '89	F. A. McDONALD, '90	E. B. RAYMOND, '90
S. B. ELY, '92	H. M. PHILIPS, '92	A. J. PIERCE, '92
H. D. SHUTE, '92	E. D. BARRY, '95	L. K. YODER, '95
C. H. YOUNG, '96	W. E. REED, '97	F. L. BISHOP, '98
W. I. BICKFORD, '01	W. F. DAVIDSON, '01	

of entertainment to those who desire information in regard to manufacturing processes. The committee on excursions has studied the matter carefully, and upon receipt of the yellow slips, which were sent to every Tech man with the first notices, will properly arrange for the various parties.

The delegation from Boston will leave on the one o'clock train Thursday, February 18, arriving in New York a little after six. The Technology Club of New York is making preparations to have a special dinner with a large crowd of Tech men to welcome the Boston visitors, and there will be plenty of time to fraternize at the club after dinner. The New York and Boston delegations will take the 11.30 train on the Pennsylvania Road for Pittsburgh, arriving at Pittsburgh at 9.30 Friday morning. Boston men who cannot arrange to take the one o'clock train will go to New York on the five o'clock train and take the same train for Pittsburgh.

Please remember that men who intend to take the trip should write to Walter Humphreys, secretary of the Technology Clubs Associated, 491 Boylston Street, Boston, so that reservations can be made on the proper trains to New York and from New York to Pittsburgh.

Northwestern Association Election

Election of officers of the Northwestern Association, Chicago, Illinois, was held on January 12, at the Electric Club, after which luncheon was served for the members of the association.

The new officers are: President, Kenneth Lockett, '02; vice-president, H. M. Montgomery, S. M. A., '79; secretary-treasurer, George B. Jones, '05; directors, P. W. Moore, '01; J. M. Frank, '07; H. S. Pardee, '09.

The executive committee elected is composed of nine past presidents of the association who will act in an advisory capacity.

An important enterprise that was recently started in Chicago, the Inter-collegiate Club, was opened Monday January 18. Its purpose is to bring

college men together for luncheon under one roof and in one room so that a fraternal spirit among the local alumni may be fostered.

College men meet every noon on Floor B, New Morrison Hotel, Clark and Madison streets, where an excellent luncheon is served. There are three table d'hôte luncheons, 35c, 45c, and 55c.

The arrangement is practically that of a club, although there are no dues. It is under the auspices of the Alumni Secretaries Association, which has appointed a committee of four, George B. Jones, '05, secretary of the Northwestern Association being a member.

The attendance at the luncheons, already held, averages about two hundred a day. All the colleges that have weekly luncheons are holding them now at Hotel Morrison, the new headquarters of the Northwestern Association.

Lunch Meeting in Bridgeport

On Saturday noon, January 30, a number of the members of the Technology Club of Bridgeport took luncheon at the University Club and met I. W. Litchfield, '85, field manager of the Alumni Association, who told them of matters of interest connected with the Institute.

The Bridgeport club, which was formed last year, is a very live organization, and, although the number of men in the vicinity is not very large, their meetings are well attended and of great interest.

Harvard Engineers Dine

The officers and about thirty Tech men of the New York Club were invited to attend a meeting of the Harvard Engineering Society of New York City, held at the Harvard Club, January 16. The speakers of the evening were President Lowell of Harvard, President Maclaurin of the Institute, Professor Hughes of Harvard, and Jasper Whiting, '89, of the M. I. T. Alumni Association. Mr. Crimmins of the Harvard Engineering Society presided.

Annual New York Dinner

The annual dinner of the Technology Club of New York was far different from any that have preceded it. It was the first time that the affair has been given in the club house, and if the verdict of those present is followed, it will never again be given anywhere else.

The special committee of the club, under F. C. Schmitz, '95, had made every possible preparation for as large a crowd as might come. They had not only arranged to sit the maximum number in the dining room and reception room, but had housed in the summer pavilion with heavy canvas, prepared for its brilliant illumination and also had run out temporary steam pipes to large radiators so that even in the very coldest of weather the place could be made comfortable. As the number present was something less than two hundred, these additional facilities were not required.

All the afternoon guests were arriving, many of them from points in Connecticut, New York and New Jersey, and a reception committee of the club made them more than welcome.

How the excellent dinner provided by the club could be prepared with the club facilities was a marvel to the men present. The dinner was served hot and quickly and was a great credit to the managers.

Contrary to the usual custom there were no speeches, except a brief talk by Henry J. Horn, '88, the new president of the Alumni Association, and the delightful monologue by Alexander R. McKim, '85, the father of the club, who is probably more welcome than any other man that came inside its doors.

From the minute the guests sat down there was a buzz of conversation and a series of class cheers, until at the end of the dinner the president introduced Mr. Horn who made a strong plea for the attendance at the meeting of the Technology Clubs Associated at Pittsburgh, February 19 and 20.

After the dinner the rooms were quickly cleared of tables, and an excellent vaudeville entertainment was presented.

The feature of the evening was the fraternizing of Tech men, many of whom had not met each other for a long time; and while a good audience enjoyed the entertainment, the other rooms were filled with groups of classmates exchanging experiences.

The sleeping accommodations of the club were taxed beyond their limit, but the Columbia Club, always ready to extend its hospitality, took care of those who could not find a place next door.

The storm center of the late evening was the newly decorated Stein Room. Most of the men saw for the first time the new panel painted by Isaac B. Hazleton, '97, which is most striking and unconventional. The artist's conception of the relation of science to art has produced a picture of striking subtlety which is bound to have a wide reputation.



New cut of the Beaver used by Bursar Ford on the Menu Cards at Union Dining Room.

Send in Your Card

If you haven't already filled out and returned the reply slip sent by the committee on the Pittsburgh reunion, do so at once, as it will be of great help to the committee in arranging for the various functions, especially for the excursions about Pittsburgh.

Tech Meeting in Washington

The first meeting of the Washington Society for the new year was held at the Home Club, 14 Jackson Place, Washington, D. C., on the evening of January 20, nineteen members being present. It was the first meeting held since last March, but a large revival of interest is expected from now on.

The annual election of officers was held at this meeting, which resulted in the election of O. C. Merrill, '05, president; H. S. Bailey, '06, vice-president; Henry G. A. Black, '10, secretary; F. Charles Starr, '05, treasurer. The above with Dr. E. B. Phelps, '99, form the executive committee.

After the business meeting Bertrand L. Johnson, '05, of the Geological Survey, gave an interesting lecture on Alaska, where he has been employed for a number of years. The pictures shown were of great interest.

A meeting of the executive committee will be held the latter part of January, at which time plans for the year will be discussed, with a view of creating a real live association in Washington.

Tributes to Professor Richards

In connection with Professor Robert H. Richards' fiftieth anniversary celebration described in the January TECHNOLOGY REVIEW, several tributes in verse have been received, which we publish below. These came too late to be incorporated in the account of the dinner last month.

R. H. R.

See the conquering Hero comes!
Joyfully we greet him.
Young and old from far and near
Gladly haste to meet him,
Press his hand, bless his name,
Find him looking just the same
As when he and they were boys,
Sharing study's griefs and joys.

See the conquering Hero comes!
Not from bloody battle,
Not where sound the roaring drums,
Where the fierce shells rattle.
Joyful warfare, helpful strife,
These have claimed his goodly life.
In the fields of peace he led us,
To the tasks of peace he bred us.

Earth her secrets deep revealed
Gladly at his seeking;
Science lent her clearest voice
When he would be speaking:
Minerals and metals all
Rose responsive to his call;
"Dear Professor! prithce melt us!
Dress, refine, reduce and smelt us!"

See the conquering Hero comes!
Truth that never falters,
Kindliness that neither time,
Age nor distance alters.
Hand of strength, heart of gold,
How should such as he grow old?
Nay, his smile reveals, in truth,
Secrets of immortal youth!

See the conquering Hero comes!
Here we stand to bless him!
Yet, so modest is his mien,—
We must not distress him.
Press his hand, bless his name!
Know him always as the same,
Present or removed,
Still the best beloved!

L. E. R.

To R. H. R. by one of the "Picked up Lot" (with apologies to the Department and Rudyard Kipling.)

A pleasant faced man,
is Bobs,
Tackles all the work he can
does Bobs;
Remembers everything he hears
And keeps it up for forty years
With a smile round both his ears,
That's Bobs!

A laboratory built for mining
Which was Bob's,
Caused derision and repining,
Didn't it, Bobs?
It's been copied far and wide
And pointed to with pride;
But I'll tell you on the side,
It was Bob's!

He's getting now a pension,
Aren't you Bobs?
Which was but fair to mention,
Weren't it, Bobs?
Now he'll have to smile,
Buy a better looking tile
And wear it (on one side) for a while,
Won't you Bobs?

Here's a health to Robert Richards
After fifty years of thought,
Planning mills that save the values.
Oh! he knows an awful lot.
Now be careful in your dinner
Lest your glasses be too big.
He may take a sudden fancy
He will dance the Richards Jig!
Frank E. Shepard, '87.

A NOTABLE BANQUET

One of the largest in the history of the Association—Speeches by Lieut.-Gov. Cushing, President Maclaurin, Ex-President Taft and Howard Elliott

The annual banquet of the Alumni Association, held at the Somerset Saturday evening, January 9, was one of the most successful in the history of the organization. There were about five hundred present, and all the classes of the Institute were represented excepting '69, of which there are but few members.

The speakers of the evening were President Maclaurin of the Institute, ex-President Taft, Lieutenant-Governor Cushing, and Howard Elliott, president of the New York, New Haven & Hartford Railroad. Mr. Taft was the guest of President A. Lawrence Lowell of Harvard University, who also sat at the head table.

During the progress of the dinner James W. Rollins, '78, arose and presented the felicitations of the alumni to Mrs. and Dr. Maclaurin on the newest Tech man on the list, Richard Colin Maclaurin, born December 26, 1914. On behalf of the association he presented to the young man a handsome silver porringer and spoon. He then called the "color guard" of honor from behind the portals, and instantly there appeared a diminutive colored boy dressed in uniform and carrying, with becoming dignity, a cushion upon which rested the gift of the alumni. This called for a long Tech cheer for Mrs. Maclaurin and the baby, and the President provoked a burst of laughter by saying, "Gentlemen, as I came from home tonight I heard him vociferously practicing the Tech yell."

Tech songs were heartily sung during the dinner, and after the "Stein Song" President Whiting arose and reported on the record of the year. He spoke of the important work done by the Alumni Council, referring to the systematizing of relations between the alumni and undergraduate activities, the plan for reorganizing the Technology Coöperative Society, a plan for carrying on greater

Institute publicity in foreign lands, and the plan for closer relations between Technology and the Commonwealth, whereby the laboratories and the teaching staff of the Institute will be available for use by the state. He also referred to the successful launching of the course in engineering administration, a course which was suggested by the Alumni Council and outlined by a committee representing it. He then introduced Lieutenant-Governor Cushing, who spoke as follows:

It seems to be the fashion of the day for the Government to draw on the universities and for the universities to draw on the Government. I need only mention as examples of this tendency the President of the United States and the distinguished Ex-President who sits at this table. Whether or not the Institute of Technology proposes to follow this fashion and intends offering a member of its Faculty as a candidate for the Presidency or contemplates recruiting its Faculty from our ex-presidents I, of course, as an outsider, cannot tell; but I have read with great interest the report of the Committee on Organized Coöperation between the Massachusetts Institute of Technology and the Commonwealth of Massachusetts, and I find that the Institute is prepared at least to place its resources at the disposal of the State Government. The report is full of interesting suggestions and possibilities and it is to be hoped that some working arrangement will be arrived at whereby the state will utilize to the fullest the scientific knowledge which the Institute commands.

I am inclined to think that the greatest defect in our public life in this country is lack of thoroughness. Our expenditures are most generous, but we have developed no policy of keeping our expenses within our income. Our financial methods are most crude. The growth of our institutions and departments has been haphazard; a department or a bureau is added from time to time to undertake a particular work and continues on forever; and no effective attempt at coördination seems possible. This adds of course enormously to the cost of government. We entirely disregard the necessity of any preliminary training or experience of high public office. It is the general impression that any American citizen is able to fill any position provided he can get the votes or the appointment. Our country has been so rich and undeveloped that we have been able to prosper in spite of our defects in administration. But the time has come when taxa-

tion begins to bear heavily, when the resources of the Government are rapidly becoming insufficient to continue the activities it is expected to carry on, and when economy and efficiency become essential. And it is fortunate that the Government may turn to institutions like this and learn the lesson of scientific precision and elimination of waste for, unless this lesson is learned, we shall be overwhelmed by the top-heaviness of our various governments.

In presenting President Maclaurin, Toastmaster Whiting introduced him as a prominent scientist, a leading exponent of the law and economics, as a mining engineer who has proved his worth by digging up "Mr. Smith," as an able administrator, as the creator of the New Technology and a defender of the old Technology, and the greatest distinction of all, as the husband of Mrs. Maclaurin. President Maclaurin's address was as follows:

The year that has passed since your last banquet will be noted in the annals of Technology as pre-eminently a year of coöperation. Coöperation is not a new thing, indeed few things are new, but there was relatively little effective coöperation between educational institutions in the past compared with what we are having now and are sure to have in the near future. Practically all our colleges, universities and the like in Massachusetts and in other parts of the country have been developed in absolute independence of the others. And may I say that it seems to me well that they should have been so developed and that no one can seriously want them now to be reduced to one level or to one type. However, just as with individuals so with institutions, you can have absolute independence and yet a spirit of coöperation. The manifestations of that spirit in college circles have been checked in the past by many forces, not the least effective of these being college pride, particularly the pride of the alumni in their own institution—a useful and splendid thing in itself, but with its accompaniment of evil. Pride in one's institution is in some respects more insidious than pride of self or pride of family. Not infrequently, it urges men to prescribe for their institutions policies that they would not deign to follow for themselves. It gives men a misleading sense of ownership and makes them believe sometimes that their institution exists for them. We must never get away from the fundamental fact that educational institutions exist for the rising generations and not for those that have risen, that their purpose is to serve the community as a whole and not that section particularly on which they have already conferred great favors, and that it is a matter of little importance whether those associated with educational institutions get any glory for their service or not. Neglect of these fundamental things has led to much that is regrettable in the past, but we seem now to see clearly the dawn of a new day. Doubtless, it, too, will have its surprises and its disappointments, but, on the whole,

it should be brighter than those that have preceded it. The year that has passed marks clearly the beginning of this brighter epoch. Just a year ago today a great stride was taken in the right direction by the agreement between Harvard and Technology that has been discussed so much within the last twelve months. It is an agreement honorable to both and advantageous to both. President Lowell has wisely said that we need not discuss which party to the agreement gets the greater advantage so long as the community benefits. This is profoundly true, but none the less is it true, in my judgment, that both institutions greatly gain. The actual working of the agreement has not yet been seen completely for at present it is only in partial operation. However, so far as it has been tested it has worked perfectly smoothly, and not one of the difficulties that loomed so large to the vision of some has presented itself in reality.

As the alumni year began on a note of coöperation, it has ended on one. Three days ago, there was a meeting in Boston of representatives of the leading educational institutions in Massachusetts. Judging from the scant notices, it does not seem that the press, except in a few cases, appreciates the significance and the importance of the movement that was there initiated. At that meeting a permanent association was formed for the purpose of considering ways and means of extending the service of the degree-granting institutions of Massachusetts so as to meet more completely the needs of the Commonwealth. It will be most interesting to see what comes of this coöperative movement *on the grand scale*, for here you have coöperating not two institutions but nearly twenty, with some two thousand professors and instructors, twenty thousand students and many times that number of alumni, and all parties to the coöperative effort are institutions with long years of experience, valuable traditions and great moral influence. Each of these institutions has been devoting its main energy to training within its walls those students, mostly just growing to manhood or womanhood, who are fortunate enough to be able to devote three, four or more years to such training. The University Council of Massachusetts will leave that great work to its individual constituent colleges to perform as each thinks best. Its special function is to organize them all for extramural service, to enable them by coöperative effort to do more than they are now doing for the great section of the community outside the college walls. The work that the association has taken in hand immediately is the organization of extension courses throughout the Commonwealth, the establishment of bureaus of information and the setting up and the making of some arrangement whereby the laboratories of the various institutions can be placed more freely at the service of the state and municipalities and the expert knowledge of the professors utilized in the solution of the countless problems that present themselves in the social life of the community. If this great coöperative effort is at all successful, it means that we have established what is effectively a great university of Massachusetts, worthy of the best traditions of the Commonwealth and incomparably more potent for service of certain kinds than any single institution could possibly be.

There have been many other examples of the working of the coöperative spirit in educational circles presented at Technology during this year. I must not presume upon your patience by discussing these examples, but perhaps you will permit me to enumerate a few—such as the arrangements that are being made for the more effective coöperation between the alumni and the undergraduates of Technology; for the carrying on of the Harvard Coöperative Society for the benefit of Technology students as well as of Harvard students; for more frequent social meetings of Harvard and Tech alumni associations. There has been much pleasant intercourse between the alumni of the two institutions during the year, this movement having been greatly stimulated by the deep impression made upon all, who were fortunate enough to hear it, by the cordial speech of President Lowell at the last meeting of the Technology Clubs Associated in Chicago. I would have you note, gentlemen, that the examples of coöperation that I have quoted are largely due to the activity of your Alumni Association acting through that very live body—the Alumni Council. That Council has had a year of remarkable achievement, reflecting great honor on President Whiting, and setting a very high standard indeed for his successors. The Alumni Council, as I have said, has taken an active part in all the coöperative movements of the year. When the negotiations with Harvard were in progress, the president of the Alumni Association, Mr. Fay, and the president-elect, Mr. Whiting, and other members of the Alumni Council, were consulted, and the suggestions that they made were incorporated in the terms of the agreement. The formation of that agreement gave a great stimulus to the idea of coöperation throughout the country, but naturally its first effect was felt in Boston itself. At the first meeting of the Council after the last annual banquet, President Whiting called attention to the question of coöperation between the Institute and the Commonwealth. A committee was subsequently set up, on which committee the governor was represented, and after investigation, a valuable report was presented. The discussion of that report had an important influence in bringing about the formation of the Massachusetts University Council formed a few days ago by representatives of institutions of higher learning within the Commonwealth. Of that committee, a special committee, of which I am chairman, has been set up to deal with the problems discussed in the report of your Council, and no doubt the committee will be greatly influenced by the specific recommendations made in that report.

I think that the facts that I have put before you will indicate that great movements are taking place in the domain of education and that Technology is taking its fair share in helping the movements forward. We need not expect too much, for much, unfortunately, is happening in the world today to discourage the idea that we are rapidly approaching the millennium. Fortunately, however, not all movement is retrograde and the growth of the coöperative spirit is one hopeful sign. In spite of this growth, there will doubtless be selfishness and jealousies and antagonisms between institutions

as between individuals in the future as in the past, but none the less we may be justified in the belief that the working of the spirit of coöperation will ultimately prove irresistible. Even the evil of war may help it in some ways, for this war must force the attention of our people to the absolute necessity of conserving all the forces that operate for good and should make it clear that we cannot go on longer wasting our energies and our resources as prodigally as in the past. And it is forcing us also to look ahead and to look abroad. We can no longer be self-centered, self-contained, and self-satisfied. What is true of all the leading institutions of learning today is peculiarly true of Technology. That institution is no longer local in its influence, and its problems are not local problems. It has the whole Union, to a certain degree the whole world for its parish. The speakers tonight, not to mention the official representatives of Technology and its Alumni Association, seem to me to happily indicate the extent and range of Technology's interest. We have the lieutenant-governor, Mr. Cushing, to remind us of our duty to the Commonwealth to which we owe so much, and whose service must always be our first consideration. We have Mr. Elliott, the president of the greatest railroad in New England—a railroad on whose successful operation depends in so large a measure the industrial and commercial prosperity of that great section of the country of which Massachusetts is but a part, and we have Mr. Taft representing the nation as a whole—a man held in respect and affectionate esteem by his countrymen everywhere and by his great qualities of mind and heart typifying what is best in humanity all the world over. If you and I, gentlemen, are to take our fair share in helping Technology adequately to perform its task, we must keep our vision clear and our sympathies broad, no narrow, no local, no provincial outlook will avail, and no merely selfish considerations must be entertained. Technology, of course, must preserve its individuality or it cannot be a power, but it need not, and indeed as I see things, it cannot, stand alone. It will go forward now, strengthened in every way by its alliance with Harvard, and ready at all times to coöperate with all other institutions that make for the enlightenment of the community.

President Howard Elliott of the New York, New Haven & Hartford Railroad was the next speaker. He said in part:

Our railroads are the most efficient in the world and furnish more and better service and at lower prices than can be obtained in any other country. They are not as good as they should be and can be, but they are owned and managed by human beings who are no better or no worse, as a whole, than the general public they are trying to serve. They have made, and will continue to make, mistakes, just as people do in all other kinds of business, as well as in government. One reason why they are not as good as they ought to be is that legislators, State and National, in trying to correct mistakes which owners and managers have made, have allowed the siren of errors to blind them to the dollars of wonderful



work already done and being done every day. They have, in their effort to correct abuses and mistakes which were gradually correcting themselves, created conditions which today make it almost impossible for the owners and managers of railroads to go ahead and do the very things that the public wants them to do and that the owners and managers want to do.

It is a most serious matter for the country that the transportation industry has come so nearly to a standstill in its development because the next time there is a business revival, which is sure to come, the transportation companies may not be ready for it because they have no margin for needed improvements.

The American railroads perform a greater service per mile of line at a cheaper rate and pay higher wages than any other railroads in the world. The Comptroller of the Currency says, in his annual report, that there are 11,000,000 depositors in savings banks with \$5,000,000,000 to their credit. Much of this large sum is invested by the banks in railroad securities so that these 11,000,000 people have a very vital interest in having the railroad industry sound and profitable.

The conservation of this industry is vital to this country, and owners and managers should be helped rather than hindered in their earnest efforts to make it more useful and efficient.

It cannot be denied that some of the difficulties