THE
TECHNOLOGY
REVIEW

RELATING TO THE MASSA-
CHVSETTS INSTITVTE
OF TECHNOLOGY

The Technology Review

THE GREAT CONVENTION IN NEW YORK

Story of the recent Institute Reunion which marks a long forward step in the development of the social side of Technology.—Formation of Technology Clubs Associated—Total attendance, 800

Every great thing has its germ in some fertile and prolific brain; and the great New York reunion originated under the hat of Lester D. Gardner, '98, chairman of the membership committee of the Technology Club of New York. On January 1, 1912, the New York club had 533 members but when Gardner took the chairmanship of the membership committee he saw that there were possibilities in a metropolitan club for Tech men which no one before him had realized. In a letter to the Board of Governors on July 17, 1912, he predicted that by February 1, 1913 the New York club would have 1,000 members provided that certain definite steps were taken, the chief of which were the enlargement of the present club house, the issuing of a business directory of members and the holding of "a meeting of the Associated Technology Clubs in January." The club house is to be enlarged or a new house obtained, the business directory is shortly to be issued and the meeting of the Associated Technology Clubs has been held. On his part Gardner has fulfilled what in July seemed a rash promise for on January 1 (not February 1) the New York club had 1,024 members.

The suggestion in regard to a general Technology reunion in New York was the first of Gardner's recommendations to be adopted. At the meeting of July 17 the governors resolved:

"That the president be empowered to appoint a committee to take the place of the regular dinner committee to investigate and report during the month of August, 1912, upon the suggestion that this club celebrate its tenth anniversary by holding a meeting of the Associated Technology Clubs of the United States in New York City during the early part of January, 1913, and in case the committee should favor such a celebration that they report in detail a plan for carrying the same into effect."

In accordance with this resolution President Kittredge appointed Benjamin Hurd, '96, chairman, C. M. Joyce, '03, Allston Sargent, '98, Bradley Stoughton, '96, and C.-E. A. Winslow, '98, as a committee to report on the proposed reunion. During August and September the plans originally proposed by Gardner were considered by the committee and discussed with the members of the executive committee of the Alumni Association in Boston. Gardner's original suggestions which contemplated a two days' reunion with a mass meeting and open house at the club on one day and class luncheons and a dinner on the other were heartily approved. From Boston came the suggestion of the departmental luncheons which proved such a unique and pleasant feature of the reunion and particularly the intimation that the alumni association

might possibly accept an invitation to hold its own annual banquet in New York as the crowning event of the two days. On October 8 the Board of Governors of the New York club approved the report of its committee outlining the general scope of the celebration and resolved:

"That an invitation is extended to the Alumni Association of M. I. T. through the Alumni Council to hold their annual dinner in New York in connnection with the reunion of the Associated Technology Clubs."

This invitation was extended by Hurd in person to the Alumni Council at its meeting on October 15 and was accepted. At this point the reunion ceased to be a New York affair and became a celebration of the alumni body as a whole. Hurd's committee, originally appointed as a committee of the New York club, was now constituted a subcommittee of the Alumni Association in charge of the arrangement of details and the two general calls for the reunion issued in November and December were sent out from the central office of the alumni.

The local committee was finally constituted, after several resignations and many additions, as follows: Benjamin Hurd, '96, chairman; L. D. Gardner, '98, headquarters; O. C. Hering, '97, tea; E. H. Huxley, '95, dinner; W. H. King, '94, constitution and open house; C. W. Rice, '90, reception; G. F. Sever, '87, class luncheons; B. Stoughton, '96, speakers; G. Swope, '95, finance, C.-E. A. Winslow, '98, publicity. The committee held sixteen meetings and each member associated with himself as many other men as were needed to carry out his work. In all over ninety men were at work on the details of the program including marshals, aids and toastmasters at the departmental luncheons but not including any of the speakers. Special mention should be made here of the work of Rice who had general charge of organizing the force of aids for all events, of Stoughton who secured the speakers for the departmental luncheons, the mass meeting and the banquet and of Swope who raised a fund of $1,000 from New York alumni to defray the incidental

expenses of the reunion. In particular the alumni owe a debt to the chairman of the local committee, Ben Hurd, for his tireless devotion and splendid organizing ability. The other members of the local committee one and all testify to the fact that he was the most active member of each of their subcommittees and that it is to his enthusiasm and generalship that the success of the reunion was primarily due.

Headquarters were open at the Plaza from noon on Friday, January 17, till the close of the banquet on Saturday, January 18, under the charge of L. D. Gardner, '98. Here a record was kept of all men registering, badges were distributed, and Tech buttons and tickets for all functions sold. The total attendance of past students at the reunion was 781.

The numbers on both Friday noon and Saturday night were far in excess of the expectations of the local committee and for a time a severe strain was placed upon the headquarters force. Eighty dinner-tickets were sold, for example, after 7.30 on Saturday evening. Gardner's organization responded nobly, however, and the late comers were provided for with a minimum of delay and inconvenience.

The Departmental Luncheons

The first event of the reunion was the series of departmental luncheons at 1 p.m. on Friday. For the buffet luncheons themselves the departments were arranged in six groups of allied courses and for the speaking which began at 2 o'clock, four smaller groups were split off from the larger ones making ten groups in all. Arrangements for these luncheons were in charge of J. P. B. Fiske, '89, and in spite of the considerable detail involved and the possibilities of confusion, everything went off smoothly and exactly on time. Four hundred and fifteen men and women were in attendance.

Perhaps the chief feature of the luncheons was the opportunity offered to the alumni to meet their old professors and to hear at first hand what is going on in the departments at Boston. The Faculty guests were warmly welcomed and

valuable reviews of current engineering problems and educational needs were presented by the outside speakers: Dr. R. H. Fernald, Mr. J. J. Carty, Mr. W. W. Freeman, Mr. Rudolph Hering, and Admiral W. L. Capps. One of the principal reasons why Technology has such a loyal body of alumni is that the professional interests of the graduates keep them so closely in touch with each other. Professional spirit is closely interwoven with Tech spirit and departmental loyalty furnishes a sound basis for a wider loyalty to the Institute. The departmental luncheons proved one of the most delightful events of the January meeting and should be a feature of all future Technology reunions.

The complete program of the departmental luncheons was as follows:

Chief Marshal for departmental luncheons, J. P. B. Fiske, '89.

Luncheon A. Course I: civil engineering (Buffet with G). Marshal, A. R. McKim, '86. Toastmaster, J. Waldo Smith, '87. Speakers, Prof. G. F. Swain, '77 (aid, F. E. Foss, '86); Prof. C. M. Spofford, '93 (aid, W. E. Spear, '97).

Luncheon B. Course II: mechanical engineering (Buffet with J). Marshal, G. A. Orrok, '88. Toastmaster, C. R. Richards, '85. Speakers, Dr. R. H.

BENJAMIN HURD, '96
Chairman of the New York Reunion Committee

Fernald (aid, G. A. Orrok, '88); Prof. E. F. Miller, '86 (aid, R. S. Allyn, '98).

Luncheon C. Course III: mining engineering and metallurgy: and Course XII: geology. Marshal, A. H. Rogers, '90. Toastmaster, Prof. H. M. Howe, '71. Speakers, Prof. W. Lindgren (aid, P. H. Mayer, '09); Prof. H. O. Hofman (aid, P. A. Mosman, '87).

Luncheon D. Course IV: architecture. Marshal, H. W. Gardner, '94. Toastmaster, Cass Gilbert, '79. Speakers, Prof. F. W. Chandler (aid, F. A. Moore, '88); Prof. J. Knox Taylor, '79 (aid, H. K. White, '99).

Luncheon E. Course V: chemistry: and Course X: chemical engineering (Buffet with I). Marshal, D. W. Edgerly, '98. Toastmaster, W. R. Whitney, '90. Speakers, Prof. H. P. Talbot, '85 (aid, F. P. Harris, '02); Prof. W. H. Walker (aid, A. Hazen, '88).

Luncheon F. Course VI: electrical engineering (Buffet with H). Marshal and Toastmaster, T. I. Jones, '96. Speakers, Prof. D. C. Jackson (aid, J. C. Damon, '05); J. J. Carty (aid, G. T. Blood, '93); W. W. Freeman (aid, F. B. Cutter, '98).

Luncheon G. Course VII: biology and public health: and Course XI: sanitary engineering (Buffet with A). Marshal and Toastmaster, G. C. Whipple, '89. Speakers, Prof. W. T. Sedgwick

(aid, C. Saville, '06); Rudolph Hering (aid, J. R. McClintock, '06).

Luncheon H. Course VIII: physics: and Course XIV: electro-chemistry (Buffet with F). Marshal and Toastmaster, G. V. Wendell, '92. Speakers, Prof. C. R. Cross, '70 (aid, G. Crosby, '05); Prof. H. M. Goodwin, '90 (aid, W. W. King, '10).

Luncheon I. Course IX: general science (Buffet with E). Marshal and Toastmaster, W. H. King, '94. Speakers, Prof. D. R. Dewey (aid, W. G. Bixby, '89); Prof. Arlo Bates (aid, D. C. Mills, '96); Prof. H. G. Pearson (aid, D. R. Franklin, '02).

Luncheon J. Course XIII: naval architecture and marine engineering (Buffet with B). Marshal, H. H. Brown, '06. Toastmaster, M. S. Chace, '94. Speakers, Prof. C. H. Peabody, '77 (aid, M. Barney, '00); Admiral W. L. Capps (aid, H. A. McPherson, '00).

Features of the Mass Meeting

Immediately after the departmental luncheons the past students gathered in the banquet hall of the Plaza for the general mass meeting. The guests of honor on this occasion were the principal donors who have made possible the new Technology on the banks of the Charles; Coleman du Pont, '83 (aid, D. Q. Brown, '98); C. W. Eaton, '84 (aid, I. H. Kaufman, '98); E. M. Hagar, '93 (aid, E. W. Rutherford, '98); Charles Hayden, '90, (aid, A. H. Jacoby, '98); J. R. Freeman, '76 (aid, C. W. Wilder, '98) and "George Smith." Mr. Smith seems, as the English say, to "know his way about" and was assigned no aid. D. C. Fenner, '98, was chief marshal for the mass meeting and the speakers were as follows: President Maclaurin (aid, G. C. Whipple, '89); Professor Dewey (aid, W. G. Bixby, '89); Professor Noyes (aid, G. E. Mathews, '98); Professor Sedgwick (aid, C. Saville, '06); President Rollins of the Alumni Association (aid, G. F. Eldredge, '92) and John R. Freeman '76 (aid, C. W. Wilder, '98).

The most notable event of the meeting, and indeed of the whole reunion, was the presentation by Mr. Freeman of the engineering plans he has prepared for the new Technology. One of the most generous gifts which the Institute has received during the last year has been the gift of many months of time devoted to the study and elaboration of these plans. After the fullest study of recommendations of the Faculty and a field survey by a corps of assistants, Mr. Freeman has given his ripe experience and his unrivalled mastery of detail to the development in the first place, of a general group of buildings planned for educational efficiency, and in the second place, of detailed provisions for light and ventilation and other physical essentials for effective work. When these engineering plans are turned over to an architect of creative vision who can dream out a new beauty fitted to the practical needs of modern education, Technology can look forward to the most perfect technological institution in the world and the Institute through Mr. Freeman and his associates will have made one of her most substantial contributions to the cause of education.

Along with the educational plans outlined by Mr. Freeman, Professor Noyes sketched the proposed provision for the social and athletic life of the new Institute. The athletic field, the Walker Memorial Building, the gymnasium and a group of dormitory buildings will form a splendid center for the development of the qualities that will help the Tech men of the future to handle men as well as the lifeless material of their work. The essential spirit of the new Technology will, however, be the the same devoted spirit of Rogers and of Walker which the older alumni have carried into every field of practical affairs. This old spirit which is to animate the new school was eloquently voiced by Professor Dewey and Professor Sedgwick in stirring addresses. The opening address by President Maclaurin is printed elsewhere in this issue.

The other important event of the mass meeting was the organization of the Technology Clubs Associated, a new affiliation of the local clubs, now forty in number scattered all over the country from the Merrimac Valley to

Puget Sound and reaching across the Pacific by way of the Technology Club of Hawaii to the Technology Club of Japan and the Technology Club of the Far East. The idea of such an organization was suggested in Gardner's letter of July 17. It quickly met with the approval of the Alumni Association and of the local clubs to whom the plan was presented by correspondence. W. H. King, '94, prepared a constitution for the organization which was presented to the Alumni Council at its January meeting. Through the experience of the executive committee of the Alumni Association the general plan proposed by the New York committee was put into such form as to harmonize best with the organization of the general association and the draft which appears elsewhere in this issue was presented at the mass meeting and adopted.

The Technology Tea

At the close of the mass meeting those in attendance with their friends adjourned to the charmingly decorated tea room on the main floor of the Plaza for a reception under the charge of O. C. Hering, '97. The patronesses in the receiving line were Mrs. Wm. Welles Bosworth, Mrs. Cass Gilbert, Mrs. Benjamin Hurd, Mrs. Richard C. Maclaurin, Mrs. William T. Sedgwick, Mrs. George V. Wendell, Mrs. C.-E. A. Winslow; while Miss Louise Dillaway, Mrs. S. G. H. Fitch, Mrs. Galen M. Harris and Mrs. Edward H. Huxley presided at the tea-table. The Reception Committee was as follows: Oswald C. Hering, '97, chairman; Wm. Welles Bosworth, '88, David Dudley Field, '96, S. G. H. Fitch, '00, John H. Gregory, '95, Galen M. Harris, '03, Frank H. Holden, '93, Benjamin A. Howes, '97, Walter Humphreys, '97, John P. Ilsley, '97, Harry Creighton Ingalls, '98, Sullivan W. Jones, '97, Paul de B. Laighton, '96, Woodruff Leeming, '91, Herbert S. May, '02, Henry H. Sayler, '01, Richard P. Wallis, '12.

Smoker at the Club

For the evening of Friday the visitors were invited to a smoker at the New York Technology Club, 17 Gramercy Park, which indeed kept open house all through the reunion. W. H. King, '94, was in general charge of the open house festivities and R. H. Howes, '03, planned the vaudeville entertainment. The club house was crammed full and offered an ocular demonstration of the fact that the New York club must expand if it is to be, not a club for New York Tech men, but a club for all Tech men, in New York, and this is what it is going to be.

The Class Luncheons

The class luncheons at 1 on Saturday brought out the largest crowd of the reunion, 548 men in all, and all Tech men (or women), for guests are not included in this count as they are in the case of the departmental luncheons and the banquet. G. F. Sever, '87, had charge of these luncheons and it was one of the biggest single jobs anyone had in connection with the reunion. It was at first planned to hold most of the class luncheons at the Plaza but the local committee felt that since the men were to sit by classes at the dinner at the Plaza in the evening, there might be a certain sameness about it if they lunched there too, so by vigorous exertion on the part of Sever and his aides the luncheons for all classes after '84 were arranged for outside the Plaza at various clubs and hotels. The classes from '68 to '84, inclusive, lunched together at the Plaza with thirty-one men present and every class represented but '69, '71, '74 and '83. The other classes ranged in number from six to forty-four, the banner being carried off by '98 which lunched at the Aldine Club forty-four strong, without counting Professors Dewey, Bates and Pearson and two other guests. C. W. Wilder, '98, the class marshal, was tireless in his efforts to bring this happy result about and it is primarily to him that '98 owes its triumph over its well-beloved old rival '93 which came second with thirty-five in attendance.

The full roster of the class luncheons with the number present was as follows:

Class	Marshal	Place	Number present
1868		Hotel Plaza	2
1870	E. D. Bolton	"	5
1872		"	1
1873		"	1
1875		"	1
1876		"	1
1877		"	5
1878		"	1
1879		"	2
1880		"	1
1881		"	3
1882		"	2
1884		"	6
1885	C. R. Richards	University Club	30
1886	F. E. Foss	Hotel Savoy	11
1887	G. O. Draper	Engineer's Club	10
1888	F. A. Moore	University Club	13
1889	K. Spalding	Hotel McAlpin	15
1890	N. G. Nims	Metropolitan Club	13
1891	C. W. Aiken	Hotel McAlpin	28
1892	F. L. Rhodes	Machinery Club	13
1893	G. T. Blood	Railroad Club	35
1894	W. H. King	Hotel Savoy	13
1895	F. C. Schmitz	Hardware Club	26
1896	C. E. Lawrence	University Club	31
1897	W. E. Spear	Engineer's Club	23
1898	C. W. Wilder	Aldine Club	44
1899	H. K. White	Browne's Chop House	24
1900	M. Barney	Keen's English Chop House	19
1901	H. T. Blanchard	Technology Club	11
1902	C. R. Place	Hotel Vanderbilt	17
1903	R. H. Howes	Technology Club	8
1904	B. A. Richardson	Hotel Brevoort	12
1905	N. A. Richards	Taverne Louis	17
1906	T. L. Hinckley	Browne's Chop House	12
1907	L. A. Friedman	Healy's Restaurant	6
1908	W. B. Given, Jr.	Machinery Club	9
1909	R. L. Jones	Keen's English Chop House	14
1910	R. S. Bicknell	Hotel Brevoort	20
1911	F. A. Wood	Keen's English Chop House	25
1912	W. H. Lange	Healy's Restaurant	17

(Supper January 17, at 6.30 p.m.)

The Alumni Banquet

The reunion reached its climax with the annual banquet of the Alumni Association on Saturday evening at 8 p. m. Five hundred and twenty-seven diners were served in the banqueting hall of the Plaza and although 80 men arrived without tickets after 7.30 every one was seated with his own class without delay or confusion and the dinner was served promptly and smoothly. E. H. Huxley '96, who was in charge of this event shares with the management of the hotel, credit for the largest midwinter alumni dinner ever held and one of the most successful Technology dinners in the his-

tory of the Institute. The guests of honor for the occasion were the living past presidents of the Institute and President Maclaurin. President Crafts was unable to be present and President Noyes, although he took part in the first day of the reunion, sailed for Europe on Saturday. President Pritchett, (aid, H. W. Leonard, '83); however, was a welcome guest. Besides the speakers,— President Maclaurin (aid, G. C. Whipple, '89); President A. C. Humphreys of the Stevens Institute of Technology (aid, C. R. Richards, '85); John V. Bouvier, Jr. (aid, H. R. Moody, '92); Prof. M. I. Pupin of Columbia University (aid, R. H. Howes, '02); Sir Ernest H. Shackleton (aid, C.-E. A. Winslow, '98) and President Rollins of the Alumni Association (aid, G. F. Eldredge, '92);— W. B. Thurber, '89, and T. C. du Pont, '83, of the Corporation, Dean Burton and Professor Dewey, chairman of the Faculty, Leonard Metcalf, '92, and Walter Humphreys, '97, of the executive committee of the Alumni Association, were seated at the head table. G. V. Wendell, '92, was chief marshal for the banquet and C. W. Rice, '90, A. R. McKim, '86, C. Saville, '06, G. F. Shaffer, '10, and P. H. Thomas, '93, acted as general aids. Every provision was made for the comfort of the guests even to a book of instructions in table manners thoughtfully arranged for by the headquarters committee. A. G. Farwell, '93, and F. C. Schmitz, '95, as choristers led the singing which was joined in with a will, and I. W. Litchfield, '85, not only took charge of the cheering but contributed an original poem for the occasion. The dinner was enlivened by a series of stunts, a postman laden down with applications for membership in the New York Technology Club, a squad of workmen armed with picks and shovels bound for the site on the Charles River and a vision of the New York club as we hope it will be in 1923. The climax of enthusiasm was reached when MR. SMITH appeared. He is a tall thin man with a heavy black beard and wears a slouch hat and a tightly fitting black mask. After showering further donations upon President Maclaurin he

unfortunately eluded pursuit and made his escape before he could be interviewed.

In assuming his duties, Toastmaster Rollins congratulated the city of New York on having the Technology club and stated that it needed only two things to make it the greatest city on earth; one was the Institute of Technology and the other a first-class baseball-nine. Rollins who upheld the credit of Technology on the baseball diamond in the late seventies digressed somewhat to explain how Professor Cross gave him the problem of computing the curve of a pitched ball, and he stated that as nearly as he could remember the formula was H_2SO_4 which meant that you hit at it twice and struck out four times.

In introducing the President, Mr. Rollins paid a graceful tribute to Mrs. Maclaurin.

FREDERIC H. FAY, '93
President of the Alumni Association

a capital speech. As for Sir Ernest Shackleton,— if there were a third pole we would gladly follow him to it. One of the pleasantest events of the banquet was the arrival of Mr. George B. McAneny, president of the Borough of Manhattan, and leader of the group of able and devoted men who are showing that American cities may be as notable for good government as some of them in the past have been noteworthy for the lack of it. Mr. McAneny had been obliged to decline an invitation to be one of the formal speakers at our dinner on account of a previous engagement but finding it possible to get away from another dinner earlier than he expected he came to us and gave us an inspiring glimpse of the engineering problems of a great city and the part played by Tech men in their solution.

The speaking was interrupted at one point for the award by President Rollins of the two handsome cups offered for the largest attendance at the class luncheons. '98 received (through Miss Usher the only alumna present at a class luncheon) the cup for the largest attendance, (44 members); while the long distance cup went to P. S. Morse, '84, of New South Wales. He couldn't have come from much farther away without being nearer home. President Fay, the last speaker emphasized the growing power of the Alumni

President Maclaurin eloquently reviewed the progress of the year, the great gifts of money that have come to the Institute and the brilliant additions to the Faculty in the persons of Taylor and Lindgren, and outlined some of the most important future developments which are in sight. Doctor Maclaurin's speech is printed elsewhere in this number. President Humphreys made us wish he were a "real" Technology man, not just a Stevens one. Mr. Bouvier told some good stories and Professor Pupin made

Association and congratulated the New York club on the success of its enterprise. He said that the Institute sought alumni advice on educational policy, student social and athletic life, financial questions and plans for the New Technology. In no other great institution of learning are the alumni so influential and so closely identified with the active management of affairs. The banquet and the reunion very fittingly closed with a long Tech yell for Ben Hurd, whose energy and enthusiasm carried it to a successful conclusion.

What the Reunion Signifies

The New York reunion marks an epoch in the history of the alumni organization of Technology. President Maclaurin has rightly emphasized the debt which the Institute owes to its Boston alumni. They have indeed "set a splendid example of doing real things," in the collection of the Technology fund, in the campaign for state aid, and in every other Institute affair. We shall continue to look to them for leadership and inspiration. But the Tech men outside of Boston, in New York and Chicago and everywhere else want to do their part too. The New York reunion means that the whole body of the alumni are rousing themselves to a new sense of their privilege and responsibility as representatives of the Institute of Technology.

Two things of great value come to the Institute from such alumni gatherings. In the first place, and most important, there is the stimulus to the enthusiasm of the men who take part. Every reunion brings out men who have been lost sight of since graduation but who once brought into touch with alumni affairs become loyal and enthusiastic. Even among the men most active in the planning of the New York meeting were several who have never before been directly interested in Institute work, men who will prove invaluable in the development of the New York club in the future. In the second place, every such gathering brings the standards and achievements of the Institute before a wider and wider public outside the circle of Technology itself. As the Technology Clubs Associated meets in section after section of the country, as the loyalty of the local alumni is stimulated and as one city after another learns of the ideals of the Institute, it will not only be Technology that gains but the nation, for the spirit of Technology is the spirit of science and of service.

C.-E. A. WINSLOW, '98.

Mens et Manus*

From the miracle of being,
From the secret of the clod,
Atom, protophyte, electron,
Tingling with the breath of God,
From this mystery of matter
Let him seek and find, who can,
Whatsoever most availeth
For the benefit of man.

Who may woo the heart of Nature?
By what sign shall Truth be known?
Ask the young men pressing forward,
Who would claim it for their own.
Where the flame of science blesseth,
Kindled by this band of youth—
Fire of boiler, forge or furnace—
Is an altar unto Truth.

And its spirit, all-pervading,
Correlates the hand and mind,
Broadens out the field of effort
To the needs of all mankind.
Rivers toil, a plague is halted,
Mountains quiver, darkness glows,
For the grim unconquered essence
Of the man who really *knows*.

'Tis the dawning of an era
Harmonizing humankind,
Based on truths evolved from matter
By a process of the mind.
Science beckons—we must follow,
Courage firm and spirit true,
For to *know* is human progress—
It is destiny to *do!*

I. W. LITCHFIELD, '85.

*Read at the annual banquet of the Alumni Association, New York, January 18, 1912.