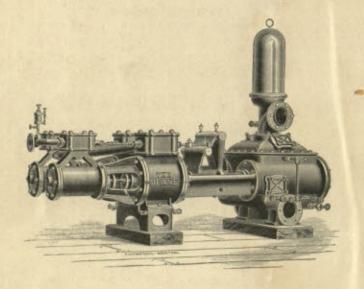


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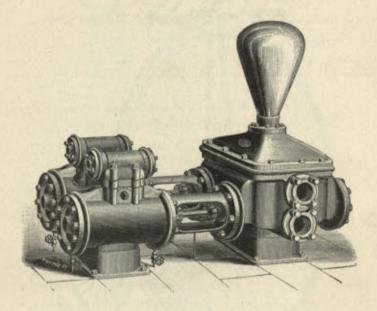
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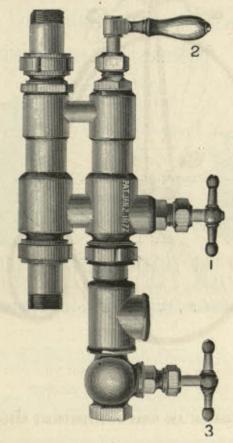
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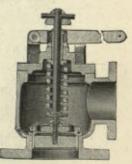
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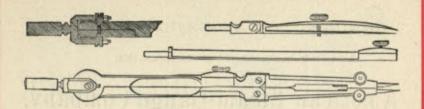
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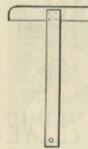
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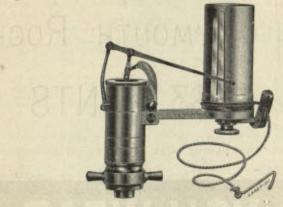
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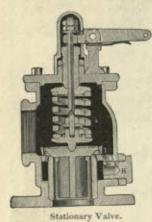
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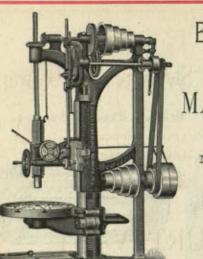
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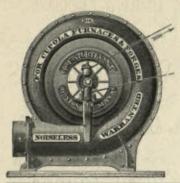


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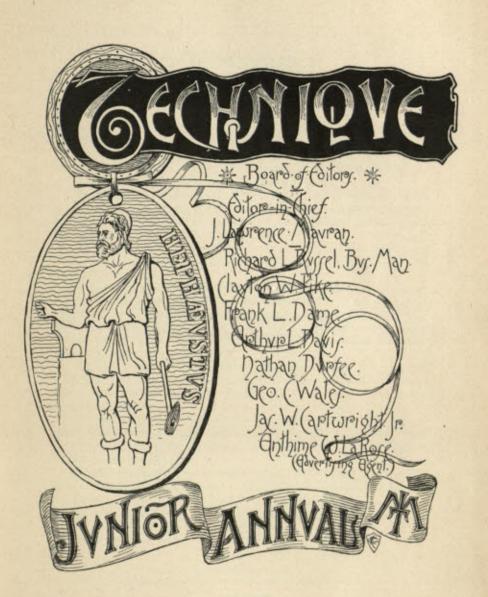
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THE EDITORS.

: Calendar :

FOR 1887-88.

School year began	Monday, Sept. 26, 1887.
TECHNIQUE issued	Thursday, Dec. 15, 1887.
Second term will begin	Tuesday, Jan. 31, 1888.
Degrees Conferred	Tuesday, May 29, 1888.
First Entrance Examinations .	Thursday, May 31, 1888. Friday, June 1, 1888.
Second Entrance Examinations	Tuesday, Sept. 18, 1888. Wednesday, Sept. 19, 1888.
Examinations for Advanced Stan	ding Thursday, Sept. 20, 1888.

For 1888-89.

School year will begin	Monday, Sept. 24, 1888.
Second term will begin	Tuesday, Jan. 29, 1889.
Degrees Conferred	Tuesday, May 28, 1889.
First Entrance Examinations	Thursday, May 30, 1889. Friday, May 31, 1889.
Second Entrance Examinations	Tuesday, Sept. 24, 1889. Wednesday, Sept. 25, 1889.
Examinations for Advanced Standing	Thursday, Sept. 26, 1889.
School year of 1889-90 will begin .	Monday, Sept. 30, 1889.

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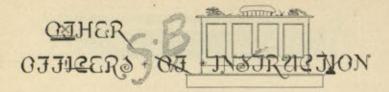
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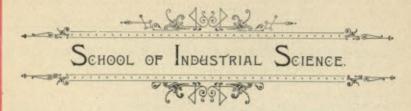
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FRANCIS A. WALKER, LL.D.

CLARENCE W. FEARING, A.M.		*:	Instructor in English and Mathematics.
CHARLES L. ADAMS			Instructor in Drawing.
DANA P. BARTLETT, S.B			Instructor in Physics.
GEORGE T. DIPPOLD, Ph.D.	1		Instructor in French.
THEODORE B. MERRICK		. 1	Instructor in Wood Work and Foundry Work.
JAMES R. LAMBIRTH			Instructor in Forging.
ROBERT H. SMITH			Instructor in Machine-Tool Work.
JOHN W. RAYMOND, Jr		*	Assistant in Forging.
FRANK M. LEAVITT			Assistant in Wood Work.
WILLIAM S. CARPENTER	1		Assistant in Machine-Tool Work.
WILLIAM E. ROBERTS			Assistant in Drawing.



: Graduate Students. :

CANDIDATE FOR ADVANCED DEGREE.

NEWELL, FREDERICK H., S.B. . Bradford, Pa. . . Brookline.

BLAKE, HENRY W., Ph.B., New Haven, Ct. Sheffield Scientific School.	100	323 Columbus Ave.
BURNHAM, EDWARD C., A.B., . Pawtucket, R. I. Brown University.	•	89 Warren Ave.
DAUCHY, SAMUEL O Chicago, Ill		354 Columbus Ave.
DOAK, JOHN E., Ph.B Stockton, Cal University of the Pacific.	-	85 Dartmouth St.
DONNELL, FRANCIS M., A.B Houlton, Me Colby University.		108 Appleton St.
EMERY, ELWOOD A., A.B Boston University of Maine.	*	27 St. James Ave.
HAZEN, ALLEN Hartford, Vt New Hampshire College of Agriculture.		Auburndale.
MALTBY, M. ELIZA, A.B Oberlin, O Oberlin College.		331 Columbus Ave.
MATHEWS, MARY E Painesville, O.		227 W. Canton St.
Moore, Daniel A., A.B St. Louis, Mo Yale College.	*	92 Chandler St.
PETERSON, CHARLES A., A.B Boston		180 Cambridge St.
PLAISTED, SHERIDAN, A.B Waterville, Mc. Colby University.		296 Columbus Ave.
RICHMOND, KNIGHT C., A.B Providence, R. I. Brown University.		79 Dartmouth St.
ROBERTS, ODIN B., A B Boston		81 Mt. Vernon St.
SMITH, Clarence W., A.B Cambridge Harvard University.		Cambridge.
SMITH, FRANK W Dorchester		Mill St.
SPENCER, ROBERT C., Jr., B.M.E. Milwaukee, Wis. University of Wisconsin.		760 Tremont St.
STORROW, SAMUEL, A.B Boston Harvard University.		417 Beacon St.
Wood, George B., A.B Philadelphia, Pa. Haverford College.	×	84 Charles St.
WOODMAN, CAROLINE A., A.B., Lewiston, Me Vassar College.	*	148 W. Newton St.
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: Senior Class:

CIVIL ENGINEERING.

STEPHEN CHILD	West Newton .	West Newton.
ALFRED B. ELLSWORTH	Buffalo, N. Y	4 Ashburton Place.
STEJIRAU FUKUZAWA	Tokio, Japan	40 Bowdoin St.
IRVING G. GREEN	North Middleboro	408 Columbus Ave.
HENRY J. HORN, Jr	St. Paul, Minn	161 West Brookline St.
FRANK M. LADD*	Uncasville, Ct	26 Holyoke St.
George S. Lee	Revere	Revere.
JOHN R. LINZEE, Jr.*	Boston	3 Ashburton Place.
WILLIAM E. MOTT*	Burlington, N. J.	161 West Brookline St.
Addison D. Nickerson	Harwichport	117 Dartmouth St.
HERBERT F. PIERCE	South Braintree .	South Braintree.
IVAR L. SJÖSTRÖM	Lawrence	Lawrence.
CLARENCE B. VORCE	Farmington, Ct.	26 Holyoke St.
JOHN E. YOUNG	Danielsonville, Ct.	309 Columbus Ave.

MECHANICAL ENGINEERING.

WINSLOW BLANCHARD	Dorchester	Park St.
ARTHUR T. BRADLEE	Boston	113 Beacon St.
LUTHER W. BRIDGES *	So. Framingham	So. Framingham.
BENJAMIN G. BUTTOLPH	Buffalo, N. Y	165 West Canton St.
FREDERICK B. COLE	Kingston	Kingston.
BERTRAND R. T. COLLINS .	Kezar Falls, Me.	87 Appleton St.
CHARLES H. CROMWELL	Baltimore, Md	26 Holyoke St.
RICHARD DEVENS	Boston	6 Louisburg Sq.
JOHN E. DOAK*	Stockton, Cal	85 Dartmouth St.
FRANCIS M. DONNELL *	Houlton, Me	108 Appleton St.
HENRY F. EASTMAN	Lowell	Lowell.
FRED. E. ELLIS*	Melrose	Melrose.
RICHARD EPPES, Jr	City Point, Va	233 West Canton St.
BERTRAM P. FLINT	Roxbury	27 Linwood St.
Theodore A. Foque	Malden	Malden.
WILLIAM H. GERRISH	Lowell	Lowell.
GEORGE W. HAMBLET	Lawrence	Lawrence.
George L. Harvey	Chicago, Ill	68 Chandler St.
EDWARD W. HERRICK	Northampton .	311 Columbus Ave.
CHARLES LEYLAND HOLMES*	Waterbury, Ct	I Yarmouth St.

*Special Students.

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WILLIAM T. KEOUGH		*		East Boston 234 Saratoga St.
ARTHUR S. MANN .				West Medway . West Medway.
HARRY C. MOORE .				Brookline Brookline.
JOHN RAY	-			Cincinnati, O 3 Oxford Terrace.
ODIN ROBERTS				Boston 81 Mt. Vernon St.
BENOIST S. REDD* .				Richmond, Va 124 Chandler St.
ALFRED H. SAWYER				Concord Concord.
FREDERICK L. SAYER				New Bedford New Bedford.
WALTER K. SHAW .				Lexington Lexington.
EDWARD M. SMITH .	*			N. Hampton, N.H. 251 Lamartine St.
WILLIAM G. SNOW .			-	Watertown Watertown.
CHARLES L. WEIL .				N. Andover, 50 Appleton St.
RALPH SWEETLAND*			300	Natick Natick.

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CHARLES F. HASTINGS	 West Newton .	West Newton.
DANIEL A. MOORE*	 St. Louis, Mo	92 Chandler St.
ALBERT SAUVEUR	 St. Paul, Minn	373 Columbus Ave.
JOHN M. SULLY	 Cambridge	Cambridge.
A. SYDNEY WARREN .	 Newport, R. I	29 West Cedar St.
Amos E. Woodward .	 East Somerville.	East Somerville.
HARVEY G. WOODWARD*	 Boston	34 Union Park.

ARCHITECTURE.

HENRY D. BATES	broan	Racine Wis	226 West Canton St.
HENRY F. BIGELOW			
ELBRIDGE S. CARLETON		Rochdale	2 Ashburton Pl.
J. WATSONS CASE		Detroit, Mich	306 Columbus Ave.
J. EDWARD FULLER	8(9.4)	Worcester	408 Columbus Ave.
FRANK A. MOORE*	*0.0	Worcester	408 Columbus Ave.
WILLIAM PROCTOR, Jr.*	250	Arlington	Arlington.
GEORGE C. SHATTUCK*		Nashua, N. H	408 Columbus Ave.

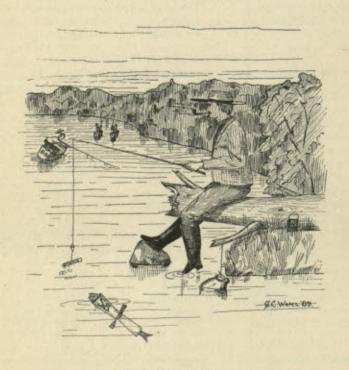
CHEMISTRY.

HERBERT S. BIRD	. City Mills	City Mills.
RUSSELL H. COLBY	. Leominister	50 Monument Sq.
ARTHUR J. CONNER	. Boston	437 Columbus Ave.
GEORGE L. HEATH	. Everett	Everett.
EDWARD C. HOLTON	. Winchester	Winchester.
CHARLES F. KAHNWEILER*	. New York, N. Y.	Cambridge.
JOHN C. LEE*	. Roxbury	145 Cedar St.

TECHNIQUE.

JAMES W. LOVELAND East Boston	25 Princeton St.	
GEORGE V. McLauthlin East Bridgewater	East Bridgewater.	
CHARLES G. MERRELL Cincinnati, O	21 Pinckney St.	
CLARENCE W. SMITH* Cambridge	Cambridge,	
FRANK W. SMITH* Dorchester	Mill St.	
Joseph C. Smith* Providence, R. I.	25 Yarmouth St.	
FRANK O. STETSON Newton		
Delia Stickney* Danversport	Danversport.	
ELECTRICAL ENGINEERING.		
HAROLD O. BINNEY Newport, R. I	297 Beacon St.	
HENRY W. BLAKE* New Haven, Ct.,	323 Columbus Ave.	
James C. T. Baldwin* Jamaica Plain .	Pond St.	
DAVID A. CENTER Gloucester	Gloucester.	
GEORGE E. CLAFLIN Providence, R. I.	12 Highland Ave.	
SYLVANUS H. COBB Hyde Park	Hyde Park.	
EDWARD COLLINS; Jr Milton	Milton.	
EDGAR F. DUTTON Roxbury	534 Warren St.	
Louis A. Ferguson South Boston .	121 K St.	
SAVORY C. HATHAWAY, Jr New Bedford	New Bedford.	
George U. G. Holman* East Boston	20 Chelsea St.	
ARTHUR W. Jones Roxbury	Norfolk House.	
CHARLES A. PETERSON Boston	180 Cambridge St.	
George B. Pool Forest Hills	3,604 Washington St.	
Russell Robb Detroit, Mich	6 Louisburg Sq.	
FREDERICK H. SAFFORD Lawrence	Lawrence.	
CHARLES A. STONE Newton	Newton.	
WALTER I. TOWNE Topsfield	Topsfield.	
EDWIN S. WEBSTER Boston	232 Newbury St.	
ARTHUR S. WILLIAMS Boston	15 Arlington St.	
N. marrie I. I. I. announce		
NATURAL HISTORY.	A CONTRACTOR AND	
EDWIN O. JORDAN Auburndale	Auburndale.	
George L. Parmelee Boston	15 Chester Pk.	
Biology.		
HAROLD G. GROSS Eureka, Cal	604 Tremont St.	
WILLIAM L. HARRIS NorthWilmington		
ALEXANDER L. KEAN Elizabeth, N. J		
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Physics.		
MARY CHAPMAN Boston	52 Bowdoin St.	
THE PARTY OF THE P		
GENERAL COURSE.		

James S. Newton Holyoke . . . 369 Columbus Ave.



Fishing without napping, With all kinds of bait; His degree entrapping, Happy Eighty-Eight.

÷ CLASS OF '88 ÷

Colors, Crimson and Black.

OFFICERS.

President.

ARTHUR T. BRADLEE.

Vice-President.

Louis A. Ferguson.

Secretary.

GEORGE E. CLAFLIN.

Treasurer.

STEJIRAU FUKUZAWA.

Distory.

FOR the last time '88 has gathered herself together; and although there was a deliberate attempt made to kill us all last May, still the dead seem to have come to life again, and our remains are exceedingly lively. The regulars are somewhat weakened, however, by the loss of Blood, and several are suffering severely from the effect of combined twisting and bending, and a few from hyperbolic expansion.

The history of the first two years has been already told, so that there remains for me only to say a few words about our third year. In heat we absorbed only a little of that which was radiated to us, a good deal being reflected, possibly on account of our polish. At the Semies, however, we exploded what little gas we had; and the result was not very disastrous, although the report was heard all over the country. Thus we bade adieu to Regnault and Tait, keeping only one Ray as a memento, which may be seen any day by a close observation of '88.

Last year, also, a number of us received our invitations to the first reception in the Mechanical Engineering Laboratory; but not being Seniors, we were only allowed to ring the bell and leave our card. This year, however, we are admitted to the full entertainment; and often as we sit there watching and waiting, we see high above us, among the shafting, the shadowy form of '87. We look at him and wonder if "he can be our old college chummy. No, he is not the same; no, he is not the same, and not the same"—he has risen in the world; he is one of the chosen few of '87.

This year we have been rushing along so fast that we did not think ourselves safe from accident, and so have taken a night course in railway signals. The first experiment was tried a short time ago, and worked well, except that it was found that, either by the cutting of the signals or some other way, the Civils did not receive theirs, and a dreadful accident would no doubt have occurred if they had not been a very level-headed set, together with the fact that they have a very good porter, who has never, so it is said, asked for a tip. At the time of going to press it was not decided what to do about the matter; still the Civils feel comparatively safe, for in case of emergency they could raise either a green light or a Japanese lantern.

In Athletics, as in everything else, '88 has held up her good reputation. Thus we have pulled through three years, although some of us do not have a very large factor of safety, and we are now well started on our last rush for the goal. We have all done more or less on our thesis,—some of us more, but more of us less,—still, we are all going to get there next term; and you may look out for valuable points from our investigations, the results of which, we think, may startle the scientific world. And now for the last time we close our history, and only express the hope that the classes which come after us may do as much in keeping up the reputation of the Tech., in every way, as has been done by '88.

Soon we'll pick up our goods and our chattels, and skip,
Say good-bye to Ganot and Tait,
To Peabody's themes and Lanza's applied,
And all things which addle our pate.
"Pope Gregori's" chestnuts no longer we'll eat,
Ridler'll scratch our names off his slate;
But 'twill be a long time, we are willing to bet,
Ere the Tech, will forget '8S.



: Junior Class:

CIVIL ENGINEERING.

WILLIAM M. BEAMAN .		140	Charlestown	Navy Yard.
HARRY B. BURLEY				
FRANK H. CILLEY*			Dorchester	601 Dudley St.
ELBRIDGE R. CONANT*				
FRANK I. CAPEN*		*:	Stoughton	Stoughton.
ROLAND N. CUTTER .				
CHARLES H. DEETZ* .			Sellersville, Pa	196 West Canton St.
WILLIAM M. DUANE .				
EDWIN F. DWELLEY .			West Hanover .	West Hanover.
ALFRED W. FRENCH* .			Hartford, Ct	19 Union Pk.
BENJAMIN W. GUPPY .			Jamaica Plain .	8 Myrtle St.
SCHUYLER HAZARD* .		3	Georgetown, S. C.	, Braintree.
WILLIAM S. JOHNSON .			Saxonville	Saxonville.
GEORGE B. McConnell		3	Roxbury	153 Blue Hill Ave.
SAMUEL H. MILDRAM .	1	4	Neponset	Wood St.
CLARENCE G. NORRIS .	18		Hyde Park	Hyde Park.
LYMAN B. PENDLETON*			Stonington, Ct	212 West Canton St.
FREDERICK W. RANNO .		-	Manchester, N. H.	136 Huntington Ave.
George L. RICHARDSON			San Rafael, Cal.	85 Dartmouth St.
RICHARD L. RUSSEL .			Pottsville, Pa	198 Beacon St.

EDWARD V. SHEPARD . . . Salem Salem.

FRANK A. SYMTHE . . . Somerville . . . Somerville.

SAMUEL STORROW . . . Boston 417 Beacon St.

SANFORD E. THOMPSON . . Newton Highlands, Newton Highlands.

GEORGE C. WHIPPLE . . . Chelsea . . . Chelsea.

LEWIS S. THOMPSON* . . . New York, N. Y. 13 Arlington St.

MECHANICAL ENGINEERING.

ARTHUR W. AYER . . . E. Somerville . E. Somerville. GEORGE M. BASFORD . . . Roxbury . . . Parker Hill Ave. CHARLES E. BEALS . . . Stoughton . . . Stoughton. ARTHUR B. Bellows* . . . Walpole, N. H. . 148 Commonwealth Ave. WILLARD G. BIXBY Salem Salem. ZENAS W. BLISS Providence, R. I. 3 Oxford Terrace. CHARLES N. BORDEN . . . Fall River . . . 369 Columbus Ave. HENRY A. CRAIGIN Boston 152 Huntington Ave. ARTHUR L. DAVIS . . . San Francisco, Cal. 85 Dartmouth St. NATHAN DURFEE Fall River . . . 369 Columbus Ave. WILLARD J. ESTABROOK* . . Boston 42 Rutland Sq. JOHN T. FAIRBAIRN* . . . Hyde Park . . Hyde Park. EDWARD V. FRENCH. . . . Lynn Lynn. IRVING I' H. GARDINER* . . Milford, Pa. . . 92 Chandler St. Brookline . . . Brookline. FRANKLIN W. HOBBS . . . EDWARD S. HUTCHINS . . . Providence, R. I. 5 St. James Ave. Lewis E. Johnson* Waterloo, Ia. . . 364 Columbus Ave. PAUL J. KENDRICKEN* . . . Roxbury . . . 376 Dudley St. LEWIS H. KUNHARDT . . . Melrose Highlands, Melrose Highlands. WILLIAM W. LEWIS . . . Hyde Park . . Hyde Park. HARRISON LORING, Jr. . . . South Boston . 789 Broadway. EDMUND P. MARSH . . . Newton . . . Newton. ALMON E. NORRIS . . . Lexington . . . Lexington . FRANK L. PIERCE Springfield . . 136 Huntington Ave. FRANK E. SANBORN Roxbury . . . 103 Moreland St. George S. Selfridge* . . Boston 124 Boylston St. WILLIAM W. UNDERHILL . . Winchester . . Winchester. JOSEPH B. WHITE* . . . North Hanson . North Hanson. ARTHUR L. WILLISTON . . Cambridge . . Cambridge. WALTER G. WINCHET . . . Dayton, O. . . 116 Chandler St. VICTOR WINDETT Chicago, Ill. . . 179 Warren Ave.

MINING ENGINEERING.

FREDERICK H. BRAINERD* .	So. Englewood, Ill., 772 Dudley St.
CHARLES L. BROWN	Stoughton Stoughton.
ARTHUR M. FORRISTALL*	Boston 172 Newton St.
GOODWIN G. STONE*	Evanston, Ill 80 Dudley St.
ROBERT C. WILLIAMS	Marquette, Mich., 116 Chandler St.
JASPER WHITING	Charlestown 100 Main St.
BENJAMIN F. WILSON, Jr	Norfolk, Va 16 Upton St.

ARCHITECTURE.

Worcester	Worcester.
Caunton	Taunton.
Kansas City, Mo.,	6 Lawrence St.
Little Rock, Ark.,	314 Columbus Ave.
Milton	Milton.
Pittsfield	41 Appleton St.
Roxbury	19 Whiting St.
Syracuse, N. Y	196 West Canton St.
Beverly	Beverly.
Albany, N. Y	306 Columbus Ave.
Albany, N. Y	306 Columbus Ave.
Providence, R. I.,	7 West Cedar St.
Portland, Me	Hotel Warren.
Chicago, Ill	40 Clifford St.
Peabody	Peabody.
Lockhaven, Pa	138 Boylston St.
Madisonville, O.,	West Medford.
Syracuse, N. Y	56 Chandler St.
Boston	314 Columbus Ave.
Boston	139 Boylston St.
	2 Commonwealth Ave.
	Caunton Cansas City, Mo., Cansas City, Mo., Cittle Rock, Ark., Milton Coxbury Coxbury

CHEMISTRY.

SPAULDING	BARTLETT			Webster		3 Oxford Terrace.
EDWARD J.	BEACH .	*111		Dubuque,	Ia	71 Rutland St.
JAMES WELL	CARTWRIG	нт	, Jr.*	Boston .		488 Columbus Ave.

ARTHUR E. CHASE*		Leominster	132 Chandler St.
FREDERICK CRABTREE			
WILLIAM S. DAVENPORT .		Roxbury	2 Homer Pl.
HARRISON G. DYAR		Rhinebeck, N. Y.	170 West Chester Pk.
JAMES PORTER GILBERT* .		Jamaica Plain .	244 Chestnut Ave.
JAMES T. GREELEY		Nashua, N. H	Nashua, N. H.
EDWARD M. HARRINGTON	**	Reading	Reading.
ALLEN HAZEN*	*10	Hartford, Vt	Auburndale.
FREDERICK S. HOLLIS* .		Newton Highlands,	Newton Highlands.
FREDERICK L. HOPKINS .		Lawrence	Lawrence.
HENRY HOWARD*		Longwood	Longwood.
MARY L. W. Morse*	. *:	Poland, O	Cambridgeport.
OSCAR W. PICKERING*		Malden	Malden.
HENRY A. PULSFORD*		So. Orange, N. J.	Cambridge.
SAMUEL B. SHELDON*		Manchester	Manchester.
CHARLES R. WALKER*	1 2	Cambridgeport .	Cambridgeport.

ELECTRICAL ENGINEERING.

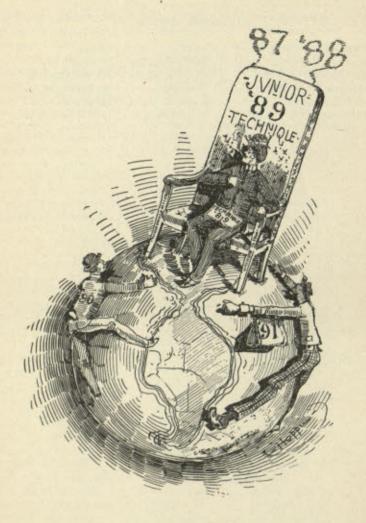
FREDERICK W. BRADLEY	Lowell	Lowell.
J. NORMAN BULKLEY	New York. N. Y.	233 West Canton St.
FRANK L. DAME	Boston	19 Temple Place.
J. PARKER B. FISKE	Auburndale	Auburndale.
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FRANCIS R. HART	New Bedford	Forest Hills St.
HENRY M. HOBART	Boston	60 West Rutland Sq.
HARRY H. HUNT	Melrose	Melrose.
FRANK A. LAWS	Brockton	Brockton.
WILLIAM H. MERRILL, Jr	New York, N. Y.	27 St. James Ave.
CLAYTON W. PIKE	Fryeburg, Me	165 Boylston St.
CHARLES W. POWER	Pittsfield	19 Upton St.
W. Monroe Rickoff	New York, N. Y.	2 Oxford Terrace.
GEORGE W. ROUNDS	Malden	Malden.
WILLIAM L. SMITH	Boston	360 Marlboro St.
ARTHUR E. TRUESDELL	West Stockbridge	Newton.
CHARLES H. WARNER	Fall River	275 Newbury St.
GEORGE A. WHITMORE	Boston	
FRANK P. WHITNEY	Dorchester	592 Adams St.
THEODORE G. WILLIAMS	Roxbury	28 Highland St.

PHYSICS.

HORACE P.	EDGETT	Beverly .	Beverly.
ARTHUR D	. KINSMAN	Inswich	East Somerville.

GENERAL COURSE.

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CHARLES B. DODGE	Skowhegan, Me.	18 Temple St.
MONTGOMERY ROLLINS	Concord, N. H	218 West Newton St.
WILLIAM B. THURBER	Plymouth	III Pembroke St.
LUCY WALKER	Boston	237 Beacon St.
J. DELANO WOOD	New Bedford .	12 St. James Ave.



Ninety struggles with Ninety-One To keep her flag unfurled; While Eighty-Nine enjoys the fun, And contented rules the world.

÷ Class of '89 ÷

Colors, Orange and Black.

YELL: '89, RAH! RAH! RAH! '89. RAH! RAH! RAH! '89. RAH! RAH! RAH! '89.

OFFICERS.

President.
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Vice-President.
Geo. M. Bassord.

Secretary.
WILLIAM H. MERRILL, Jr.

SPAULDING BARTLETT.

Sergeant-at-Arms.
W. B. THURBER.

mistory.

AVING passed the stages of Freshman follies and Sophomore conceits, in our dignified wisdom we find ourselves decidedly opposed to recording our own greatness; but since we must write of ourselves, let it not be supposed that we would possibly state our doings in more than half of their original greatness; for, firstly, we do not intend this history to be read through blue glasses, and, secondly, we desire to bring ourselves to seem as nearly as possible on a standard with the other classes.

Having made this little explanation, here goes for looking at '89 through the other end of the telescope.

In our Freshman year we commenced with a class-meeting; and although we heard a few slight murmurs from '88, we were not compelled to hurt anybody. We passed peacefully on, pulling Harvard Sophs in tug-of-war by way of diversion; and when the Annuals came, gracefully sauntered forth, bearing our nickel-plated records with us.

A great deal more might be said about this first year, but it was long, long ago, and the unkind reader will find further particulars way back in the first or second number of TECHNIQUE somewhere.

In the fall of our second year we performed an experiment in Mechanics on the Union Grounds, and distinguished ourselves by proving F=Ma.

The same week Ninety's hatters all wore diamonds.

At the Winter Meeting of the Athletic Association our tug-of-war team added another to our list of victories, by pulling Adonis and his gang.

Then came the sanguinary Semies, where many regulars joined their special brethren, murmuring, "Otis hard to Cross a Holman, Dewey ever so Wells," and where many Specials, the sons of rich but honest parents, joined the outer world, and were lost to us and the subscription fiends forever.

Gliding on in our perfect way, we took all the bicycle races in the spring, passed the Annuals, studied conditions all summer, and came back this fall a resplendent model of what a Junior class should be.

Our Civils can measure Bunker Hill Monument, and can get it four inches taller than any other crowd in the State, and then come directly back and subscribe less money to foot-ball than any department alive.

Our Architects can draw anything—even unto four cards for a flush.

Mechanicals always spend Christmas getting the Miner's shafts in gear.

Electricals can whistle "Ohm, Sweet Ohm" so it sounds exactly like
"Erminie," and there isn't a man among us who can't read this sort of

stuff $\int \frac{\Delta}{\pi} \frac{\Theta}{y^{-8}} (damn)_{fr}^*$ just as though it were German.

We do not say all this to brag, however, but simply to record a few fundamental truths. Ah there! any questions at this point? Very well, then, we have only to speak of the Class Society. There she stands in all her bigness, with a Francis for a President, and a James P. for a Secretary. She goes to Kiralfy's, enjoys suppers, pulls mimic tug-of-wars with the table-cloths, and is generally social.

No more need be said. We publish this little picture-book this year, but wait till you see our theses in Eighty-Nine!



Eighty-eight has her old class-tree, Eighty-seven had the same; Eighty-nine has no tree at all, But she gets there just the same.

CLASS SONG '89.

Air, "Son of a Gambolier."

OW all fill up your glasses,
And drink to "Eighty-Nine,"
She's the cream of all the Institute—
She "gets there" every time.
She can give the Freshmen points on canes,
And rushes, too—as well—
And the number of signs in Sophomores' rooms,
The Devil alone can tell.

CHORUS.

Now all fill up your glasses,
And drink to "Eighty-Nine,"
She's the cream of all the Institute —
She "gets there" every time.
So drink her down, with "three times three
And remember, it's a crime
If every man don't yell himself hoarse
With "Technology '89!"

You're going to do in May.

CHORUS.

Last term we had our "Pol. Econ.,"
With Dewey, Ph.D.;
He used to give us our weekly "steer"
In "Rogers 33."
But now all that is over,
And Dewey no more is seen;
We get English Prose from the dear old "Goat,"
Way down in Room 15.

CHORUS.

Then there's Otis and old "Pie-Balls,"
Who "sock it to us" in Dutch;"
The "Taube" and the "Biene"
And the "Jagdhund" and all such.
But English into "Dutch,"
Is the worst we've tackled yet.
"Will you order a hack, Maria?"*
You can't write that I'll bet.

CHORUS.

We must not skip our Physics friend,
Who "paralyzes" light;
You sit in the dark and shuffle your feet,
Although it is not right.
"This helical wave in the analyzer
I think you will readily see;"
But you don't give a hang for what he says,
For you're hungry as you can be.

CHORUS.

At last we've shipped old Linus,
Who bothered us with "Descrip."
At those little weekly exams. of his,
He'd catch us every trip.
But now we've gone to a better land,
And he'll never plague us more.
And we laugh when we think of '90,
How he'll welter in their gore.

CHORUS.

*See Ex. 14.

GEO. C. WALES, '89.

: Sophomore Class:

CIVIL ENGINEERING.

CYRUS C. BABB	Boston 12 Somerset St.
J. EDGAR BORDEN* 1	Fall River Auburndale.
ALBERT F. BROWN I	Roxbury 106 Zeigler St.
CHESTER V. CARLTON 1	Milford, N. H 564 Columbus Ave.
WILLIAM G. CURTIS	New York, N. Y. 1 Oxford Terrace.
FRANK L. CHASE*	Boston 303 Columbus Ave.
JOHN C. E. DE BULLET* (Carroll, P.O., Md., Hotel Brunswick.
ALEXANDER J. DELANO 1	Roxbury 231 Dudley St.
GUY C. EMERSON*	Orland, Me 413 Shawmut Ave.
WILLIAM H. FENN J	lersey City, N. J. 148 Warren Ave.
	Chicago, Ill 127 Pembroke St.
HARRY ADAMS KENNICOTT*	Nebraska C'y, Nb., 8 W. Chestnut Ct.
FRANKLIN KNIGHT	Lynn Lynn.
WILLIAM MCKEE LORENZ*	Allegheny, Pa. , 12 St. James Ave.
F. A. McDonald*	Ellsworth, Me 11 Dartmouth Pl.
EVERETT S. MITCHELL 1	Boston 200 Washington St.
BURDETT MOODY	Deadwood, Dak. 154 Warren Ave.
HARRY L. NOYES	Boone, Ia Parker Hill Ave.
JOSEPH K. NOYES	Bingh'mpt'n, N.Y., 77 Dartmouth St.
WILLIAM B. POLAND	Damfuino 115 Berkeley St.
WILLIAM F. RIPLEY	Newton Newton.
CHARLES W. SHERMAN	Kingston Kingston.
EDWARD B. STEARNS	East Watertown. East Watertown.
GORDON H. TAYLOR	East Cambridge. East Cambridge.
HENRY M. WAITE	Toledo, O 325 Columbus Ave.
ELTON D. WALKER '	Taunton tot Appleton St.
ERNEST P. WHITTEN	Roxbury 59 School St.
NATHAN B. WILBER*	Bridgewater 100 Roxbury St.
ARTHUR R. WILSON*	Oakland, Cal 11 Upton St.
Andrew W. Woodman	Chelsea Chelsea.

MECHANICAL ENGINEERING.

ARTHUR H. ADAMS .		Watertown	Watertown.
CHARLES B. BEASOM*		Nashua, N. H	30 Appleton St.
J. CHRISTÓBÁL BLUME		Lima, Peru	48 Chester Sq.
Austin D. Boss* .		Willimantic, Ct.	4 Moreland St.
EDWARD F. BRAGG*			

HORACE L. BRAND	Chicago, Ill	772 Dudley St.
RALPH G. BROWN	Boston	486 Columbus Ave.
EDWARD C. BURNHAM	Pawtucket, R. I.	89 Warren Ave.
R. G. WALKER BUTTERS	Haverhill	107 W. Chester Park.
GEORGE D. CHAPMAN	Fitchburg	321 Columbus Ave.
CHARLES O. CHURCHILL* .	Abington	Abington.
HOMER C. CLAPP	South Boston .	729 East Fourth St.
HARRY W. CLEMENT	Rutland, Vt	316 Shawmut Ave.
WILLIAM L. CREDEN	South Boston .	940 Broadway.
FRED. A. CROSSMAN	Providence, R. I.	West Medford.
DARRAGH DE LANCEY	Plainfield, N. J	9 Park Sq.
JOHN O. DEWOLF	Greenfield	14 Winthrop St.
FREDERICK H. DODGE	Toledo, O	8 Columbus Sq.
WILL I. FINCH*	Scranton, Pa	294 Columbus Ave.
WILLIAM P. FLINT	Brookline	Brookline.
S. DOUGLAS FLOOD	Hyde Park, Ill	19 St. James Ave.
Cassius M. Foster	Toledo, O	151 Worcester St.
EDMUND D. GARFIELD*	Fitchburg	321 Columbus Ave.
GEORGE L. GILMORE	Charlestown	22 Bunker Hill St.
FREDERICK B. HALL	Charlestown	70 Winthrop St.
EDGAR L. HAMILTON	Fond du Lac, Wis.	107 W. Chester Park.
George A. Hilton	Cambridge	Cambridge.
WINTHROP T. HODGES*	Boston	67 Marlboro St.
S. Ellsworth Horton	Winsor Locks, Ct.,	46 Savin St.
HARRY W. KERN*	Chicago, Ill	28 Berwick Park.
CHARLES F. KOCH	Cincinnati, O	54 Montgomery St.
BERTRAM A. LEUFEST	Reading	Reading.
ATHERTON LORING*	South Boston .	789 Broadway.
WALDO A. MARTIN	Milton	Milton.
FREDERICK METCALF	Providence, R. I.	69 Appleton St.
FREDERICK C. MOODY	Boston	116 Appleton St.
S. WALLACE MOORE	Newton	Newton.
George L. Nelson*	Geneva, N. Y	157 Boylston St.
ALLEN H. NEWELL	Stockton, Cal	323 Columbus Ave.
George C. Osborne*	Tate, Ga	Newtonville.
EDWIN A. PALMER	Richmond, Va	235 W. Canton St.
WILLIAM R. PEYTON	Duluth, Minn	154 Warren Ave.
CARLETON A. READ	Bolton	Bolton.
KNIGHT C. RICHMOND	Providence, R. I.	79 Dartmouth St.
CHARLES E. RIPLEY	Rutland, Vt	148 W. Canton St.
HAROLD B. ROBERTS*	Boston	81 Mt. Vernon St.
EDWARD ROBINSON	Hudson	24 Isabella St.
HOWARD C. SLATER		75 Warren Ave.
ARTHUR B. STEARNS	Framingham	Framingham.
AMERICAN AND ACCOUNTS OF A CO.		

GEORGE P. TALLANT*	San Francisco, Cal. Hotel Oxford.
JOHN H. TOWNE	Stamford, Ct 6 Louisburg Sq.
THAXTER N. TRIPP*	Lynn Lynn.
GARDNER T. VOORHEES	Cambridgeport . Cambridgeport.
GEORGE F. WELD	Falmouth 6 Louisburg Sq.
George B. Wood*	Philadelphia, Pa. 84 Charles St.

MINING ENGINEERING.

ALEXANDER S. BRADLEY, Jr.*	Dorchester 772 Dudley St.
SAMUEL O. DAUCHY*	Chicago, Ill 354 Columbus Ave.
WILLIAM HASKINS	Medford Medford.
JAMES A. MEAD	Grand Rapids, Mich., 154 Warren Ave.
GEORGE A. PACKARD	Wakefield Wakefield.
ALLEN H. ROGERS	South Boston . 707 East Broadway.
HUGO E. SCHROETER	Roxbury 7 Sudbury Pl.
GEORGE A. SONNEMAN	Boston 228 Tremont St.
Andrew H. Spring	Somerville Somerville.
WILLIAM D. WILLES	Trenton, N. J 248 Newbury St.

ARCHITECTURE.

CHARLES H. ALDEN, Jr	West Point, N. Y.	27 St. James Ave.
FRANK C. BALDWIN*	Detroit, Mich	91 Newbury St.
GILBERT C. BISHOP*	New London, Ct.	9 Wellington St.
Louis H. Boynton*	Jamaica Plain .	Jamaica Plain.
CHARLES E. BURR*	Bordentown, N. J.	102 Chandler St.
ALPHEUS CHITTENDEN*		
GEORGE P. CROHEN*	Brooklyn, N. Y.	82 West Newton St.
ELWOOD A. EMERY		
LYMAN A. FORD*	Cleveland, O	45 West Newton St.
FREDERICK B. GAENSLEN* .	San Antonio, Tex.	381 Columbus Ave.
FRANK GOODWILLIE*		
HENRY R. HAYDEN, Jr.*	East Hartford, Ct.	13 Yarmouth St.
SOPHIA G. HAYDEN		325 Lamartine St.
WALTER POWER HENDERSON*	Brookline	Brookline.
August Lipman*	Chicago, Ill	102 Dartmouth St.
RICHARD KING LONGFELLOW*		
ERNEST M. A. MACHADO* .	Salem	Salem.
EDMUND A. MANNY, Jr.*	St. Louis, Mo	347 Columbus Ave.
GEORGE W. MANSUR*		Lowell.
JAMES H. MANSUR*	Cleveland, O	212 West Canton St.
JULIAN MILLARD*		56 Temple St.
Louis C. Newhall *		Malden.
NORMAN G. NIMS *		Somerville.
Evans Preston *	Boston	Hotel Berkeley.

WILLIAM B. REED	*	Westfield	27 St. James Ave.
ARTHUR W. RICE* ·			
HUBERT G. RIPLEY*	6	Melrose Highlands,	Melrose Highlands.
ARTHUR DUDLEY ROPES*	*	Orange, N. J	Lincoln.
WILLIAM J. SLOAN*		Syracuse, N. Y	76 Chandler St.
ROBERT C. SPENCER, Jr.* .		Milwaukee, Wis.	760 Tremont St.
GEORGE W. TAYLOR *		Morristown, N. J.	34 Hancock St.
ROBERT T. WALKER		Greenfield	14 Winthrop St.
LYMAN O. WARREN		Brighton	Brighton.
VERNON A. WRIGHT*		Boston	51 Chestnut St.
THOMAS H. YARDLEY	541	Newport, R. I	46 Chestnut St.

CHEMISTRY.

FRANK W. ATWOOD			East Boston	81 Lexington St.
DANIEL W. BRINTNALL*			Charlestown	76 High St.
JAMES A. CARNEY			Lowell	Lowell.
THOMAS N. CODMAN * .	1		South Lincoln .	South Lincoln.
WINTHROP COFFIN* .	16	*	Auburndale	Auburndale.
WILLIAM H. COLLINS*.			Phœnix, R. I	323 Columbus Ave.
GEORGE F. ELDRIDGE .	-		Hyde Park	
GEORGE W. FULLER	-			
FREDERIC E. HARNDEN*			Boston	34 Rutland Sq.
WALLACE MACGREGOR*			East Braintree .	THE RESERVE OF THE PARTY OF THE
CHARLES E. MARTIN* .			Philadelphia, Pa.	84 Charles St.
GEORGE E. MERRICK .	1		Holyoke	
George A. Orrok *			Dorchester	
HENRY H. POPE *			Dorchester	1050 Adams St.
GRAHAM ROBINSON* .				
EDMUND T. SIMPSON .			Lowell	Lowell.
WILLARD C. TILSON* .				Malden.
HERBERT C. TUTTLE * .				
FRANK B. VAN NOSTRANI				
WILLIS R. WHITNEY* .			Jamestown, N. Y.	
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ELECTRICAL ENGINEERING.

JOSEPH B. BAKER* .		*		South Boston	819 Broadway.
JOHN B. BLOOD					
EDWARD D. BROWN .				Reading	Reading.
MORTEN CARLISLE .				Cincinnati, O.	312 Columbus Ave.
FRANK W. DUNBAR .	-			Canton	Canton.
WALTER ELLIS	-			Newton	Newton.
FRANK M. GREENLAW			3	Roxbury	5 Willoughby Pl.
JOHN R. HALL		4		Longwood .	Longwood.
ERNEST A. LESUEUR					

BERTRAM H. MANN Weymouth	Weymouth.
WILLIAM MOSSMANN Mattapan	Mattapan.
EDWARD B. RAYMOND Somerville	Somerville.
CALVIN W. RICE Winchester	Winchester.
FREDERICK P. ROYCE Boston	256 Newbury St.
SCHUYLER SCHIEFFELIN New York, N. Y.	Hotel Oxford.
MARTIN O. SOUTHWORTH Stoughton	Stoughton.
HENRY P. SPAULDING Newton	Newton.
THOMAS J. STURTEVANT So. Framingham	So. Framingham.
FREDERICK W. SWANTON Bath, Me	1 Columbus Sq.
LEONARD C. WASON Brookline	Brookline.
C. Morris Watson Jamaica Plain .	26 Greenough Ave.
WILLIAM F. WELLS New Haven, Ct.	128 St. Botolph St.
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Biology.	
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FRANKLIN W. WHITE Boston	Hotel Berwick.
Anna M. Gove* Whitefield, N. H.	69 Pinckney St.
MARY E. MATHEWS* Painesville, O	227 West Canton St.
ETHEL B. BLACKWELL* Elizabeth, N. J	Boutwell Ave.
JANET REID SHELDON* Rutland, Vt	13 Arlington St.
ALICE W. PALMER* Roxbury	Bellevue St.
PHYSICS.	
HARRY M. GOODWIN Roxbury	3 Townsend St.
GEORGE E. HALE Chicago, Ill	3 Wheatland Ave.
M. ELIZA MALTBY* Oberlin, O	331 Columbus Ave.
HERBERT A. THOMPSON Amherst	
HERBERT A. THOMPSON Amherst	
HERBERT A. THOMPSON Amherst General Course.	
General Course,	Pond St.
GENERAL COURSE. JOHN L. BATCHELDER, Jr Jamaica Plain .	
GENERAL COURSE. JOHN L. BATCHELDER, Jr Jamaica Plain . Edward M. Beals Boston	125 Newbury St.
GENERAL COURSE. JOHN L. BATCHELDER, Jr Jamaica Plain . Edward M. Beals Boston Lizzie E. Bickford* Piermont, N. H.	125 Newbury St. Franklin Park.
GENERAL COURSE. JOHN L. BATCHELDER, Jr Jamaica Plain . EDWARD M. BEALS Boston LIZZIE E. BICKFORD* Piermont, N. H. GARY N. CALKINS Chicago, Ill	125 Newbury St. Franklin Park. 436 Columbus Ave.
GENERAL COURSE. JOHN L. BATCHELDER, Jr Jamaica Plain . EDWARD M. BEALS Boston LIZZIE E. BICKFORD* Piermont, N. H. GARY N. CALKINS Chicago, Ill WALTER F. COOK Dorchester	125 Newbury St. Franklin Park. 436 Columbus Ave. Boston St.
GENERAL COURSE. JOHN L. BATCHELDER, Jr Jamaica Plain . EDWARD M. BEALS Boston LIZZIE E. BICKFORD* Piermont, N. H. GARY N. CALKINS Chicago, Ill WALTER F. COOK Dorchester WALTER J. DORE Chicago, Ill	125 Newbury St. Franklin Park. 436 Columbus Ave. Boston St. 84 Chandler St.
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GENERAL COURSE, JOHN L. BATCHELDER, Jr Jamaica Plain . EDWARD M. BEALS Boston LIZZIE E. BICKFORD* Piermont, N. H. GARY N. CALKINS Chicago, Ill WALTER F. COOK Dorchester WALTER J. DORE Chicago, Ill PIERRE S. DUPONT Philadelphia, Pa. CHARLES HAYDEN Boston	125 Newbury St. Franklin Park. 436 Columbus Ave. Boston St. 84 Chandler St. 148 Warren Ave. 166 Newbury St.
GENERAL COURSE, JOHN L. BATCHELDER, Jr Jamaica Plain . EDWARD M. BEALS Boston LIZZIE E. BICKFORD* Piermont, N. H. GARY N. CALKINS Chicago, Ill WALTER F. COOK Dorchester WALTER J. DORE Chicago, Ill PIERRE S. DUPONT Philadelphia, Pa. CHARLES HAYDEN Boston LEONARD M. HILLS Amherst	125 Newbury St. Franklin Park. 436 Columbus Ave. Boston St. 84 Chandler St. 148 Warren Ave. 166 Newbury St. 167 West Chester Pk.
GENERAL COURSE, JOHN L. BATCHELDER, Jr Jamaica Plain . EDWARD M. BEALS Boston LIZZIE E. BICKFORD* Piermont, N. H. GARY N. CALKINS Chicago, Ill WALTER F. COOK Dorchester WALTER J. DORE Chicago, Ill PIERRE S. DUPONT Philadelphia, Pa. CHARLES HAYDEN Boston LEONARD M. HILLS Amherst EDWARD T. NEWTON* Holyoke	125 Newbury St. Franklin Park. 436 Columbus Ave. Boston St. 84 Chandler St. 148 Warren Ave. 166 Newbury St. 167 West Chester Pk. 369 Columbus Ave.
GENERAL COURSE, JOHN L. BATCHELDER, Jr Jamaica Plain . EDWARD M. BEALS Boston LIZZIE E. BICKFORD* Piermont, N. H. GARY N. CALKINS Chicago, Ill WALTER F. COOK Dorchester WALTER J. DORE Chicago, Ill PIERRE S. DUPONT Philadelphia, Pa. CHARLES HAYDEN Boston LEONARD M. HILLS Amherst EDWARD T. NEWTON* Holyoke MINNIE ROGERS Jamaica Plain .	125 Newbury St. Franklin Park. 436 Columbus Ave. Boston St. 84 Chandler St. 148 Warren Ave. 166 Newbury St. 167 West Chester Pk. 369 Columbus Ave. 53 Bowe St.
GENERAL COURSE, JOHN L. BATCHELDER, Jr Jamaica Plain . EDWARD M. BEALS Boston LIZZIE E. BICKFORD* Piermont, N. H. GARY N. CALKINS Chicago, Ill WALTER F. COOK Dorchester WALTER J. DORE Chicago, Ill PIERRE S. DUPONT Philadelphia, Pa. CHARLES HAYDEN Boston LEONARD M. HILLS Amherst EDWARD T. NEWTON*	125 Newbury St. Franklin Park. 436 Columbus Ave. Boston St. 84 Chandler St. 148 Warren Ave. 166 Newbury St. 167 West Chester Pk. 369 Columbus Ave. 53 Bowe St. 55 Pinckney St.
GENERAL COURSE, JOHN L. BATCHELDER, Jr Jamaica Plain . EDWARD M. BEALS Boston LIZZIE E. BICKFORD* Piermont, N. H. GARY N. CALKINS Chicago, Ill WALTER F. COOK Dorchester WALTER J. DORE Chicago, Ill PIERRE S. DUPONT Philadelphia, Pa. CHARLES HAYDEN Boston LEONARD M. HILLS Amherst EDWARD T. NEWTON*	125 Newbury St. Franklin Park. 436 Columbus Ave. Boston St. 84 Chandler St. 148 Warren Ave. 166 Newbury St. 167 West Chester Pk. 369 Columbus Ave. 53 Bowe St. 55 Pinckney St. 56, 6 Louisburg Sq.



Feeling a loaf his righteous due,
"Passed" the goal of Freshman year,
He cares for others not a sou,
But stands alone without a peer.

: CLASS OF '90 :

Colors, Silver Gray and Blue.

YELL: N-I-N-E-T-Y! RAH! RAH! RAH! NINETY!

OFFICERS.

President.

GEORGE F. WELD.

Vice-President.

GARY N. CALKINS.

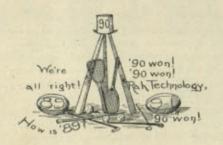
Secretary and Treasurer.
W. B. POLAND.

Distory.

S it necessary that a career, the brilliancy of which is already so deeply impressed upon the mind of all, should be further immortalized through this, - The Tech. Annual? It seems hardly necessary; and still upon reflection we cannot, in justice to our many admirers, deprive them of this opportunity to read about us. However, as we start to writing, the query arises in our minds as to just what a Class history consists of. We have consulted the Sphynx, and that worthy knows not. We have resurrected dusty back-number Techniques, and eagerly perused defunct Sophomore chronicles, in search of pointers. As a result, another query presents itself to us: Does the history of Technology Sophomore classes consist of sundry invidious remarks as regards the Fresh? Does it consist of wagging that long-eared chestnut about "der Esel," who begegneted the empty wolf, and the rehearsal of that tear-pulling, but somewhat strained fairy tale of "Die Wilde Taube und die Biene?" These seemed to have sufficed our stagnated predecessors, but they won't do us. We are going to have something new.

To begin with, we are a great class. From all parts of the United States and the green hills of Chelsea, men have flocked to our standard. And they have been the right sort of men, too. That was a fair sample of them, that little crowd that renovated the Union Grounds with '89's eleven last year. It was that particular variety known as "'90" that won nine events at the Athletic meeting, and broke two Institute records.

Whose little nine(ty) was it that made a clean score for the Institute, and filled some of the defunct Varsity dates? These, together with a few remarks made in last year's Technique, go to show what '90 has done; for this year she has started in well by defeating the Freshman eleven, even though it contained a sprinkling of Varsity men. It is true there are not so many of us as "there used to was," but we feel very well satisfied with what we have got. Sniggins and Buffum have left us, but their memory lingers still to cheer us on. Now and again we catch a glimpse of some familiar face among the ranks of the toddlers, but for such we have only words of sympathy and friendly smiles. But with the memory of a by-gone "Semi" still fresh and cherished, we have left most of our innocent festivities as a legacy to the Freshmen; and that '90 is actually working, may be seen by a peep into Jimmie's autograph album, which last, as Charley (beg pardon) would say, may be seen clearly enough to be a beautiful illustration of a most interesting fact.



Dedicated to the Members of the

CLASS OF '90.

THERE were sighs and lamentations
From the melancholy "dig,"
As he burnt the midnight candle,
Lest he might get "F" in Trig.;
But his eyes were prone to wander
From the text-book in his hand,
Till at last they close, then open
In a visionary land.

Now he stands on mount Olympus,
In the presence of the gods,
And he starts, and gazing round him
He beholds the "Prex.," then nods.
But the "Prex." sees not the student,
For up there on malice bent,
He is "taking" Jove's opinion
On "a Freshman's punishment."

As the Fresh turns slowly from them,
With his mind bereft of hope,
He beholds the lovely Venus
Flirting with the mortal Pope;
But the lord of all reactions
Frowns the cheeky creature down,
And says in richest Saxon,
"Get the gone, girl, get thee gone."

Then he hears the sound of music,
And the ringing of the bells,
As the keeper of the gateway
Ushers in "Sir Webster Wells";
Travel-stained and hungry looking,
From his journey to the stars,
In his hand a Conic Sections,
Which he'd read upon the cars.

"How the poor Tech. boys will miss you!
Such another ne'er they'll find."
"No," replied Wells to the speaker,
"But I've left my books behind;
And to keep my memory precious,
As to them 't has always been,
I have left 'some few' tough problems
To be solved and 'handed in.'"

"Great Olympus!" cried the student,
As he heard the midnight bells,
"Banish problems to perdition,—
To the shades send Webster Wells."
Then he raised a cry of anguish
For his own eternal woes,
For he'd nodded o'er the candle,
And the candle burnt his nose.

: Freshman Class:

WILLIAM H. Andrews. . . Newburyport. . Newburyport. CHARLES W. AIKEN . . . Franklin, N. H. . Maplewood. ARTHUR H. ALLEY Jamaica Plain . Revere St. DAVID A. AMBROSE Georgetown . . 87 Franklin St. CHARLES H. ANDREWS* . . North Easton . North Easton. Chelsea. . . Chelsea. GEORGE T. ATKINSON . . . GEORGE P. BALDWIN . . . Wilton, N. H. . 153 West Canton St. ROBERT S. BALL Dublin, Ireland . 74 Bartlett St. ROWLAND H. BARNES . . . Waltham . . . Waltham. JOEL G. BARRE, Cambridgeport . Cambridgeport. WILLIAM H. BASSETT . . . New Bedford . . New Bedford. ALFRED W. BELL. West Newton. . West Newton. EUGENE K. BIGELOW . . . Natick Natick. ELISHA B. BIRD Dorchester . . 122 Cottage St. J. HENRY BIRKS Montreal, P. Q. . 182 West Chester Pk. EDWARD S. BLACKMER . . . Plymouth . . . 524 Columbus Ave. JAMES W. BLACKMER, 2d . . Plymouth . . . Plymouth. BURTON D. BLAIR . . . , Collinsville, Ct. . 3 Yarmouth St. FREDERICK C. BLANCHARD . Dorchester . . 293 Commercial St. ALFRED M. BLINN Roxbury . . . Elm Hill Ave. STEPHEN BOWEN, Jr. . . . Roxbury . . . 7 Greenville St. STEPHEN B. BOYD Waterbury, Ct. . Malden. WILLIAM D. BRACKETT . . Minneapolis, Minn., 624 Columbus Ave. HENRY G. BRADLEE Boston 113 Beacon St. HARRY C. BRADLEY Boston 29 Upton St. LOTTIE A. BRAGG * . . . Braggville . . . Braggville. WALLACE H. BRAINERD . . South Englewood, Ill., 772 Dudley St.

Musgrave T. Brooks South Sudbury . South Sudbury.	
WILLIAM C. BROWN West Bridgewater, West Bridgewater.	
DIXIE L. BRYANT Boston 102 Boylston St.	
WILLIAM P. BRYANT Charlestown 170 Bunker Hill St.	
GEORGE W. BRYDEN Chelsea Chelsea.	
CARL H. BUNKER Auburndale Auburndale.	
ROBERT BURNS Somerville Somerville.	
FRANK H. BURTON Providence, R. I.	
NATHANIEL B. BUXTON* Woonsocket, R. I., Newtonville.	
JEREMIAH CAMPBELL Chelsea Chelsea.	
BARNARD CAPEN, Jr South Boston 534 East Fourth St.	i.
WILLIAM P. CASTLE Belfast, Me Norfolk House.	
Douglas A. Cater New York, N. Y., 117 Berkeley St.	
HENRY M. CHASE Holyoke Somerville.	
GEORGE W. CHICKERING Lawrence Lawrence.	
ARTHUR F. CHILDS St. Albans, Vt 14 Harvard St.	
F. Bradford Choate Salem Salem.	
CHARLES H. CLARK Thorndike 371 Columbus Ave.	
EDWARD A. CLARK Jamaica Plain . Greenough Ave.	
EDWARD C. CLARK Washington, D.C. Brookline.	
JOSEPH E. CLARK Waldoboro, Me 680 Tremont St.	
JOHN D. CLARKE Savannah, Ga 118 Boylston St.	
E. BARTLETT CLEVELAND . Boston 7 Durham St.	
FREDERICK G. COGGIN, Jr Lake Linden, Mich., 1 Beale St.	
CHARLES P. COGSWELL, Jr Norwich, Ct	
RALPH D. COLBURN Holliston Holliston.	
FRED A. COLE Camden, Me 33 Wellington St.	
HARRISON I. COLE Kingston Kingston.	
JOHN C. COLE Newton Newton.	
STEPHEN L. COLES Cincinnati, O 6 Berwick Park.	
REUREN B. COLLINS Braintree Braintree.	
ROGER W. CONANT Gloucester Van Winkle St.	
Iohn S. Cook Chicago, Ill	
HARRY E. CORMIER Charlestown 3 Pleasant St. Ct.	
THOMAS H. CREDEN South Boston . 940 Broadway.	
EDWARD CUNNINGHAM, Jr East Milton East Milton.	
ROBERT D. CUSHING Lunenburg 290 Columbus Ave.	
HERBERT C. DAGGETT Foxcroft, Me 83 Carver St.	
John Daland, Jr Andover Andover.	
LINFIELD J. DAMON, Jr. * Roxbury 34 Williams St.	
GORHAM DANA Dorchester Glendale St.	
WILLIAM C. DART Providence, R. I. Reservoir.	
BERT H. DAVIS Ashland Bellevue St.	
AND THE RESERVE OF THE PARTY OF	
CHARLES D. DEMOND East Boston 166 Webster St.	

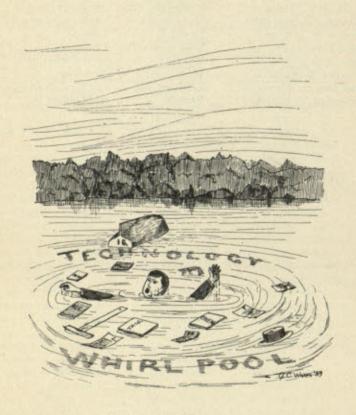
ARTHUR J. DILLON St. Lo	uis, Mo 3 Columbus Sq.
EDWARD W. DONN Washi	ngton, D. C., 16 Mt. Vernon St.
FRANK H. Dow Great	Falls, N.H., 67 East Brookline St.
WALTER B. DOUGLASS Lowel	l Lowell.
STERLING T. Dow Portla	nd, Me 329 Shawmut Ave.
CHARLES K. DRAKE Boston	Hotel Victoria.
ELBRIDGE E. DUNCAN Nashv	ille, Tenn., 3 Columbus Sq.
EDWARD EARL Leomi	nster 75 Hancock St.
	a, Neb 411 Columbus Ave.
HORACE H. ENSWORTH Hartfe	ord, Ct 167 West Newton St.
WILLIAM T. EUSTIS, Jr Spring	field 145 West Newton St.
AN ADMINISTRATION OF THE SECOND STATE OF THE S	Park, Ill 788 Dudley St.
	ry · 50 Elmore St.
	ester, Ct 28 Upton St.
	k, Va Somerville.
	ry Elm Hill Ave.
LESTER G. FRENCH Brattle	
	ork, N. Y. 8 Dale St.
	nd, Me 323 Columbus Ave.
	on Sparhawk St.
	ry 32 Linwood St.
	Pa 29 Berwick Park.
	eboro, Vt 6 Louisburg Sq.
	ry 62 Forest St.
	yn, N. Y. 32 Wellington St.
	nd, Me 46 Bowdoin St.
	point, R. I., 124 Chandler St.
	a, Wash. Ter., 28 Dwight St.
	a Plain . 310 Centre St.
	ryport . Newburyport.
	Carried Control of the Control of th
RICHARD W. HALE* Bostor CHARLES F. HAMMOND Detroi	t, Mich Allston.
	go, Ill 3 Cheshire St.
	212 West Newton St.
ARTHUR E. HATCH Charle	
HERBERT E. HATHAWAY Fall R	
GEORGE B. HAWLEY Hartfo	
WILLIAM C. HAWLEY Malde	
	or, Wis 154 Warren Ave.
WILLIAM J. HENDERSON Brook	
ERNEST A. HERSAM Stonel	
JOHN A. HIGHLANDS Fall R	
JOHN D. HILLIARD, Jr Provin	cetown . 28 Dwight St.

CLYDE W. HOLLIDAY	Roxbury 17 Stafford St.
EUGENE A. HOLMES*	Medford Medford.
FRANCIS C. HOLMES	Plymouth 20 Yarmouth St.
GEORGE A. HOLMES	Newton Centre . Newton Centre.
GEORGE K. HOOPER	Roxbury 29 Dow St.
WALTER E. HOPTON	Bridgeport, Ct 58 Rutland St.
FRANK G. HOWARD	West Medford . West Medford.
ARTHUR HOWLAND	West Newton West Newton.
ARTHUR L. JACOBS	Melrose Highlands, Melrose Highlands.
FRED C. JARECKI	Erie, Pa 29 Berwick Park.
CHARLES A. JOHNSON	Norwich, Ct
HARRY W. JORDAN	Kennebunk, Me., 37 Winthrop St.
WILLIAM E. KEATING	Melrose Melrose.
WILLIAM F. KEENE	Saugatuck, Ct Brookline.
THOMAS M. KEENE	Chelsea Chelsea.
HERBERT S. KIMBALL	Roxbury 22 Highland Ave.
Morris Knowles, 2d	Lawrence Lawrence.
WARREN F. KNOWLTON	Magnolia Lynn.
WILLIAM H. LAWRENCE	Dorchester 34 Sumner St.
ELISHA LEE, Jr	Port au Spain, Trinidad, Brookline.
Woodruff Leeming	Brooklyn, N. Y., 28 Dwight St.
WILLIAM E. LELAND	Saxonville Saxonville.
ERNEST L. LIBBEY	Lowell Lowell.
Major Liddell, D. S	Denver, Col 779 Tremont St.
EDWARD G. LINCOLN	Chicago, Ill 2 Chambers St.
Julius W. Loewenthal	Chicago, Ill 152 Huntington Ave.
ROWLAND S. LUDINGTON	Oak Park, Ill 88 Waltham St.
Moses Lyman, Jr	Waverly, N. Y 309 Columbus Ave.
ARTHUR N. MANSFIELD	Wakefield Wakefield.
HENRY K. MANSFIELD	Salem Salem,
WILLIAM K. MANSFIELD	Melrose Highlands, Melrose Highlands.
CLEMENT MARCH	Cambridge Cambridge.
PRYOR L. MARKEL	Omaha, Neb 19 St. James Ave.
DONALD McDonald	Fraserville, P. Q.
Leo G. McKellops	St. Louis, Mo.
ALEXANDER G. MCKENNA .	Allegheny, Pa.
George E. McQuesten	East Boston Quincy House.
EDWARD McVicker	Collinsville, N. Y., Hotel Vendome.
PERCY W. MEAD	Darien, Ct 117 Berkeley St.
JOSEPH A. MYER, Jr	Boston 10 Rutland Sq.
LILLY MILLER*	
GUY E. MITCHELL	
ROBERT C. MITCHELL	
FREDERICK CAMPBELL MOORE	
FREDERICK CAMPBELL MOORI	., 1401 WICH, Ott 323 COMMINUS 144C.

FREDERICK CLOUSTON MOORE Brookline . . . Brookline. FRED. F. MOORE Waltham . . . Waltham. ALEXANDER W. MOSELEY . . Evanston, Ill. . Cambridge. Samuel A. Moss New Berlin, N. Y., 309 Columbus Ave. CHARLES H. MUHLENBERG . Reading, Pa. . . 29 Berwick Park. ERNEST NICKERSON . . . Newton Centre . Newton Centre. FRED. E. NORTON . . . Little Rock, Ark. 55 Pinckney St. Hamilton Otis San Francisco, Cal., So Dudley St. George H. K. Oxford . . Cambridgeport . Cambridgeport. Albion L. Page Stanley, N. J. . 15 St. James Ave. CHARLES M. PALMER . . . Chicago, Ill. . . 12 St. James Ave. WILLIAM I. PALMER Winchester . . Winchester. ALBERT K. PIERCE . . . Bardezag, Turkey, Auburndale. JAMES W. PIERCE Cambridge . . Cambridge. ROBERT M. PIERCE* . . . Concord . . . Concord. Francisco de M. Pinto . . Rio Janeiro, Brazil, 241 Boylston St. SHERIDAN PLAISTED . . Waterville, Me. . 296 Columbus Ave. PHILIP C. POWERS Springfield . . 358 Columbus Ave. C. Barton Pratt . . . Bridgewater . . Bridgewater. NATHAN R. PRATT . . . Sudbury . . . Sudbury. WILLIAM H. PUNCHARD . . Chelsea . . . Chelsea. GEORGE PUTNAM Arlington Heights, Arlington Heights. JOHN PUTNAM Sandwich . . . 18 Upton St. NARCISO T. QUEVEDO . . . Guatemala, C. A., 2 Boylston Pl. FRANK REYNOLDS Marblehead . . Marblehead. WILLIAM C. RICHARDSON . . . Boston 365 Marlborough St. CHARLES W. RICKER . . . Buffalo, N. Y. . 377 Columbus Ave. George D. Rogers Salem Salem. JOHN A. ROONEY Hyde Park . . Hyde Park. HORACE F. RUGGLES . . . Brookline . . . Brookline. MORRILL S. RYDER Middleboro . . Middleboro. OSCAR F. SAGER Charlestown . . 52 School St. JOHN L. SCHWARTZ . . . Pittsburgh, Pa. . 11 St. James Ave. MARSHALL S. SCUDDER . . . Brookline . . . Brookline. RUSSELL SELFRIDGE . . . Newport, R. I. . 198 Beacon St. ARTHUR F. SHATTUCK . . . Winchester . . Winchester. EDWARD H. SHAW Phildelphia, Pa., 294 Columbus Ave. PRENTICE SHETHAR . . . New York, N. Y., 13 Arlington St. Frederic N. Simonds* . . Woburn . . . Woburn. ARTHUR C. SMITH Worcester. . . Worcester. EDWIN C. SMITH Newton . . . Newton. FREDERICK T. SNYDER . . Chicago, Ill. . . FRANK E. SOULE Newton . . . Newton. EPHRAIM SPALDING* . . . Salisbury . . . Cambridgeport.

THEODORE SPENCER .			New London
GEORGE H. SPOONER .			New Bedford
PHILIP W. STANFORD* .		-	Boston 141 Warren Ave.
WARNER J. STEEL			
LILLA F. STICKNEY* .			Charlestown 214 Main St.
WILLIAM STICKNEY			
Sol. H. Stix			
SYLVAN L. STIX			New York, N. Y. 48 Chandler St.
ARTHUR B. STODDARD .			Taunton Taunton.
JUNIUS STONE			
JAMES SWAN			Dorchester Arcadia St.
ERNEST S. TAPPAN* .			
WILLIAM T. THAYER .			South Weymouth, South Weymouth.
JOHN G. THOMPSON			Roxbury 15 Moreland St.
WILLIAM S. THOMPSON*			Erie, Pa 29 Berwick Park.
WALTER B. TROWBRIDGE			
WILLIAM H. TUCKER* .			Middleton, Ct 40 Tennyson St.
CLARENCE A. TUTTLE .			
CLIFFORD M. TYLER .			Brookline Brookline.
CHARLES H. URBAN .			Cincinnati, O 54 Montgomery St.
GEORGE W. VAILLANT .			New York, N. Y. 13 Arlington St.
FRANCISCO L. VERGES .			
EDWARD R. WAIT			Glens Falls, N. Y. 271 Columbus Ave.
HENRY H. WAIT			Chicago, Ill 82 Myrtle St.
Ambrose Walker*			Boston 237 Beacon St.
JAMES W. G. WALKER .			Washington, D. C., 249 Beacon St.
GEORGE M. WALKER.			Fall River 275 Newbury St.
Joseph A. Warren			Cumberland Mills, Me., 3 Yarmouth St.
WILLIAM WARREN			
CHARLES C. WATERMAN			Brighton Brighton. Charlestown 80 Green St.
DUDLEY S. WATSON .			Toledo, O 8 Columbus Sq.
HENRY T. WEED			New York, N. Y. 28 Dwight St.
Ludwig Weiller			
JAMES J. WELCH			Salem Salem.
THADDEUS S. WELCH .			Augusta, Me. 5 Myrtle Pl.
EDWARD M. WELD* .			Dedham Dedham.
GARDNER F. WELLS			
HARMON WENDELL			Detroit, Mich. 43 Dwight St.
WILLIAM H. WESTON .			Boston Hotel Royal.
CHARLES P. WETHERBEE		*	Detroit, Mich Somerville.
George H. Wetherbee,			East Marshfield. East Marshfield.
LEONARD A. WHEELER*			Troy, O Lincoln.
FRANK L. WHIPPLE* .			Lawrence Lawrence.
Annie E. White	*	*	Roxbury 233 Highland St.

HARTLEY L. WHITE	Brookline	Brookline.
J. FRANCIS WHITE	Waterbury, Ct	271 Columbus Ave.
CHARLES W. WHITLEY	Englewood, Ill	385 Columbus Ave.
CLARENCE E. WHITNEY .	Hartford, Ct	167 West Newton St.
SALMON W. WILDER	Lowell	Lowell.
BRYANT WILLARD	Washington, D.C.	Columbus Ave.
FRED. A. WILSON	Nahant	40 Worcester St.
CHARLES H. WOOD	Brookline	Brookline.
CAROLINE A. WOODMAN	Lewiston, Me	148 West Newton St.
GEORGE M. WOODWARD .	Seekonk	30 Staniford St.



Struggling hard against the current Isn't any fun, But you'll be Sophomores by and by, So cheer up, Ninety-One.

* CLASS OF '91 *

Coloro, Orange and French Blue.

NINETY-ONE, NINETY-ONE, RAH! TECHNOLOGY, NINETY-ONE!

OFFICERS.

President.

E. McVicker.

Vice-President.

W. J. STEELE.

Secretary.

C. B. PRATT.

Treasurer.

C. C. WATERMAN.

Sergeant-at-Arms.

A. LINCOLN.

mistory.

SCARCELY two months ago, from the smoke and carnage of the entrance examinations, through a deadly shower of roots, powers, geographical grape and metric canister, there burst on the astonished gaze of a vanquished Faculty the mighty three hundred that now makes its initiatory "Technique"-cal bow, and demands respectful recognition as the Class of '91.

Our history, though short, is fraught with great events and mighty deeds worthy the largest class that has as yet cast its fortunes with the leading scientific school of America. Have we not already a firmly organized Class society, whose officers comprise some of the weightiest men in the Institute? Have we not floored a dreaded quarterly examination? Have we not been defeated at foot-ball, and had strength and spirit enough left to rush the miserable victors, and walk all over their prostrate bodies?

Great has been our progress mentally, morally, and physically during

these short weeks of existence. Many have been the angularities broken off and polished down by constant contact with flinty polyhedral propositions, adamantine French and German idioms, and semi-weekly applications of English emery papers. The T square and compass are fast becoming our favorite weapons, while in the Chemical Laboratory we have created the most profound admiration among the instructors by the variety and energy of our explosions, original compounds, and explanatory notes. Three times a week our gripsack brigade, returning from drill, causes a prodigious sensation in the vicinity of Copley Square, presenting the appearance of a newly arrived Methodist conference or an irruption of Anarchists, according to the bend of mind and proximity of the observer.

Then we have won the esteem and confidence of Professors and Secretary by our earnest and praisworthy efforts in study, and quiet, orderly class-meetings in No. 15. In the champion collegiate foot-ball team we hold an honorable place. Compare, if you please, the standing of the team this year and last, when the fresh blood was furnished by that class which shall be nameless, and whose scalp now adorns our buttonhole.

Proud as is our position, and great as has been our progress, yet we are not satisfied; but, led by our worthy and adipose President, will Mc-Vicker-ous efforts to send our rocket so high, that in 1891 it will burst into a constellation which will illumine the whole country, and completely extinguish the feeble rush-lights that went before us.







: Regular Students :

SECOND YEAR. '

WILLIAM EDWARDS . . . Quincy . . . Quincy.

STETSON G. HINES . . . Burlington, Vt. .

CHARLES O. LENZ . . . Providence, R. I., 312 Shawmut Ave.

HORACE G. LOBENSTINE . Boston . . . 544 Columbus Ave.

WILLIAM A. MORSE . . . Foxboro . . . Foxboro.

ARTHUR C. SAVAGE Hyde Park . . . Hyde Park.

FIRST YEAR.

George S. Barrows . . . Auburndale . . Auburndale. STEPHEN A. BREED . . . Lynn . . . Lynn . . . Lynn. JAMES E. CHADWICK . . . Edgartown . . GEORGE J. ELDER East Boston . . 12 Falcon St. ARTHUR B. FULLER Middleton . . . II Bulfinch St. HENRY Y. GILSON Somerville . . Somerville. JAMES J. KILLILEA East Boston . . 74 Everett St. JOSEPH M. LEDWITH . . . New York, N. Y. 385 Columbus Ave. Louis L. Lincoln . . . Taunton . . . Taunton. HERMAN L. NOYES . . . Abington . . . Abington. EDWARD A. PORTER . . . Calais, Me. . . GEORGE M. TILSON Malden Malden. LAWRENCE J. WEBSTER . . Boston 232 Newbury St. CHARLES H. WESTCOTT . . Kennebunkport, Me., Maplewood. WALTER W. WILLIAMS . . Boston 321 Dudley St. ERNEST V. WRIGHT Boston . . . 423 Shawmut Ave.

: Special Students:

MARTIN S. BARNARD Shop., Math., Draw.		Mt. Cuba, Del	Waltham.
CHARLES E. BOCKUS Shop., Math., Draw., Phys.		Dorchester	3 Ashland St.
CHARLES B. FOLSOM Shop., Draw.	-	Boston	22 Indiana Pl.
WILLIAM H. GROVER Shop., Draw.		Charleston, S. C.	Allston.
FREDERIC D. HALL Shop., Draw.		East Boston	43 White St.
ALFRED C. HAYES Fr., Math., Draw.	5.	Kittery, Me	760 Tremont St.
HERBERT A. HUNTING Shop., Math., Draw.		Charlestown	28 Mead St.
ALEC F. MACDONALD Shop., Draw.		Chelsea	Chelsea.
DWIGHT MILLER Eng., Math., Phys.		Sacramento, Cal.	3 Yarmouth St.
HERBERT W. PAINE Shop., Draw.		Elmwood	Elmwood.
EDWIN H. PATTISON Shop., Draw.		Webster	236 West Canton St.
CHARLES H. PUTNAM Math., Draw., Fr., Eng., Shop	p.	Fitchburg	335 Columbus Ave.
EDWARD F. SHERMAN Shop., Math., Draw., Phys.	94.	New Haven, Ct.	92 Chandler St.
THEODORE H. SKINNER . Shop., Draw.		Boston	126 Berkeley St.
HORACE B. SPERRY Math., Fr., Shop., Draw.	2	Boston	741 Tremont St.





CHARLES KASTNER, Instructor.

Miss DELPHINA WESTON, Assistant.

: Students :

GRACE T. BAKER			Weymouth Weymouth.
ELIZABETH E. BATES .			Newton Newton.
ARMISTEAD K. BAYLOR			Jamaica Plain . Boylston St.
GRACE C. BLOOD			Lowell Lowell.
JENNY BROOKS			Salem Salem.
HAROLD H. BROWN		-	Malden Malden.
ALBERT BRYANT		v	Melrose Melrose.
LEONARD L. CAIN			West Hingham . West Hingham.
ANNIE P. CAMPBELL .			Plymouth Cambridgeport.
BENJAMIN K. CARR			Cambridgeport . Cambridgeport.
JEANETTE H. CHOATE .			Newton Centre . Newton Centre.
LOUIS W. CLARK			Middleboro Middleboro.
ELLA C. COFFEY			Boston 4 Gardner Ave.
LUONA COHN	,		Milford 63 Warrenton St.
KATHERINE L. CONNOR			South Boston . 8 Pacific St.
L. S. Converse			Stafford Sp'ngs, Ct. 426 Columbus Ave.
GEORGE W. DAWSON .			Jamaica Plain . Centre St.
MARION DICKINSON	40	2	Boston 151 West Newton St.
JULIA S. DOANE	*		Newtonville Newtonville.
ALICE EDSON			Jamaica Plain . Rockview St.
FRED A. EMERY		-	Boston 201 Ruggles St.
Louis E. Felton			Natick Natick.
WINFRED C. FOSTER .			Fitchburg Fitchburg.
WILLARD C. FOWLE		*	Woburn Woburn.
GRACE E. FRENCH			Rockland Rockland.
JAMES F. GILLERAN	*		Mapleville, R. I.

JOHN L. GIRDLER Boston 143 Warren Ave.
JAMES HALL Jamaica Plain . Rockview St.
Anna M. Hathaway Brockton Brockton.
Nellie L. Hawes Dorchester Harrison Sq.
RUSSEL B. HENCHMAN, Jr Hyde Park Hyde Park.
WILLIAM L. HILL Cedar Somerville, Cedar Somerville.
CHARLOTTE E. HOWELL Millville, N. J 40 Berkeley St.
WILLIAM C. HUNT New Bedford New Bedford.
THOMAS E. KNOWLAND Middleboro Middleboro.
Belle Lamprey Charlestown 137 High St.
FRED. H. LAWRIE Medford Medford.
MICHAEL J. LYNCH Boston 45 Emerald St.
WILLIAM F. MEEHAN Melrose Highlands, Melrose Highlands.
FRED. C. MOORE Newton Highlands, Newton Highlands.
EDITH O. MORSE Salem Salem.
Annie H. Newton Greenfield Cambridge.
WILLIAM A. NORTON Killingly, Ct St. James Ave.
Winslow A. Parsons Saugus Saugus.
LIZZIE PHILBRICK Newton Centre . Newton Centre.
WALTER F. PRATT North Weymouth, North Weymouth.
Annah R. Prouty Chelsea Chelsea.
MARY P. PUFFER West Newton . West Newton.
CHARLES E. SANFORD Fall River Fall River.
OTIS SHAW Hyde Park Hyde Park.
WILLIAM F. SIDELINGER Quincy Point . Quincy Point.
ANNETTE S. SMITH East Boston 177 Lexington St.
Susie M. Stantial Melrose Melrose.
ADA Z. STETSON Charlestown 55 High St.
CLARABEL STETSON Malden Malden.
ELIZABETH M. THACHER Dorchester Stoughton St.
HATHORN J. THOMPSON Elmira, N. Y 112 West Concord St.
HERBERT W. TIRRELL Weymouth Weymouth.
FRANCES E. TURNER Boston 7 Hereford St.
CARLETON J. UNDERWOOD . Groton 709 East Fourth St.
FREDERIC W. WEST Haverhill Haverhill.
FRANK E. WHEELER Fitchburg Fitchburg.
TRACK D. HILDERS T. T. THOMAS.

: Summary :

		SEN.	Jun.	SOPHS.	TOTAL.
Civil Engineering	Course 1	14	26	30	70
Mechanical Engineering	Course II	34	32	55	121
Mining Engineering .	Course III	8	7	10	25
Architecture	Course IV	8	20	35	63
Chemistry	Course v	15	19	20	54
Electrical Engineering	Course vi	20	21	22	63
Biology and Nat'l Hist'y	Course VIIALB	5	-	6	11
Physics	Course viii	1	2	4	7
General Course	Course IX	1	6	14	21
TOTALS		106	133	196	435
Freshmen					257
SCHOOL OF MECHANIC ARTS					
Second Year		6			
First Year		12			
Specials		19			
		_			37
LOWELL SCHOOL OF PRACTIC	CAL DESIGN,				62
					-

: Summary :

By States and Foreign Countries.

Massachusetts	. 500	Virginia	4	Canada 3	
New York	36	Nebraska :	4	Japan · r	
Connecticut	32	District Columbia	4	Peru 1	
Illinois	27	Arkansas	2	Ireland I	
Maine	26	Maryland	2	Trinidad 1	
Rhode Island	21	Iowa	2	Turkey I	
Ohio	20	Georgia	2	Brazil 1	
Pennsylvania	18	Tennessee	2	Guatemala 1	
New Hampshire .	17	Colorado	2	Porto Rico 1	
New Jersey	12	South Carolina .	2	9 11	
Michigan	10	Kentucky	1		
California	8	Texas	1	750	
Vermont	7	Delaware	1	150	
Wisconsin	5	Dakota Ter	1	TOTAL STUDENTS, 791	
Minnesota	5	Washington Ter.	1	From 28 States, 2 Territories.	
Missouri	5			District of Columbia, 9 Foreign Countries.	
16 States.	750	12 States, 2 Ter., and D. C.	31		

1285 FROM SOUTH AND WEST.

761 From New England. 98 From Central States.

11 From Foreign Countries.

: Graduation Exercises :

CLASS OF '87,

THURSDAY, MAY 31, 1887.

READING OF ABSTRACTS AND TITLES OF THESES.

ADDRESS BY THE PRESIDENT TO THE GRADUATING CLASS.

Pregentation of Diplomag.

Candidate for the Degree of Master of Science.

ARTHUR AMOS NOYES, S.B. (Mass. Inst. Tech.) Newburyport, Mass.

Preparation of the Butines and the Action of Heat on Isobutylene.

Candidates for the Degree of Bachelor of Science.

- George Arthur Armington Weymouth, Mass,
 An Investigation of the Radial Valve Gears.
- SIDNEY ROLAND BARTLETT Boston, Mass.

 A Biological Examination of the Water Supply of Newton, Mass.
- CHARLES ARTHUR BARTON Waltham, Mass.

 An Experimental Study of the Surface Condenser.
- WILLIAM BISBEE BLAKE Newburyport, Mass.

 A Review of the New York City Water Supply and of the Quaker

 Bridge Dam.

WALTER CLAUDIUS BRACE Leavenworth, Kansas. Amalgamation, Concentration, and Smelting of a Central City (Col.) Gold Ore.
HENRY BOIES BRAINERD Montreal, P. Q. An Analysis of the Expenditures of the City of Boston between the Years 1866 and 1886.
DWIGHT BRAINERD Montreal, P. Q. The Law of Suicides.
HENRY FLETCHER BRYANT Bryantville, Mass. A Design for a Sewerage System for Brockton, Mass.
FRANK GELETT BURGESS Boston, Mass. Location and Estimates for a Narrow-Gauge Railway from Davis Mine to Charlemont, Mass. (with F. Thompson).
JULIAN ABBOT CAMERON Westford, Mass. A Design for the Arrangement of the Machinery in a Worsted Mill.
FRANK DELBERT CARNEY Thomaston, Me. The Treatment of a Pyritous Copper Ore from the Davis Mine, Mass.
WINTHROP COLE Newton, Mass. An Experimental Investigation of the Flow of Steam through a Tube.
HENRY JOHN CONANT Watertown, Mass. The Steam Engine Indicator. A Theoretical and Experimental Study of some of its Errors.
HELEN COOLEY Little Britain, N. Y. A Comparison of the Methods of Testing Indigo.
RALPH EDGAR CURTIS Newburyport, Mass. The Results of Some Experiments on Pumping Engines, with reference to Cylinder Condensation (with W. O. Hildreth).
WILLIAM CHANNING CUSHING (M.A., Univ. of N. B.) St. John, N. B. The Tensile Strength of Cement as Affected by the Fineness of Grinding, and the Change of Dimension of Cement during Induration (with W. S. Thompson).

SARAH LOUISE DAY (A. B., Vassar College) Boston, Mass. The Composition of Cotton-Seed Oil.
WALTER CLARK FISH Taunton, Mass. A Commercial Efficiency Test of a Thompson-Houston Dynamo.
JOHN MANASSEH FOX Portland, Me. The Inverse Electromotive Force of the Voltaic Arc.
JOSEPH BATES GAY Boston, Mass. A Design for a Collegé.
WALTER HOWARD GLEASON Boston, Mass. The Boiling Points of Naphthaline, Benzophenone, and Benzol, under Controlled Exhaustions, with reference to Thermometry.
WILLIAM SEYMOUR HADAWAY, Jr Plymouth, Mass. A Study of the Deviations between the Mercurial and the Air Thermometer.
WILLIAM OSGOOD HILDRETH Gardiner, Me. The Results of some Experiments on Pumping Engines, with reference to Cylinder Condensation (with R. E. Curtis).
JAMES CALVIN HOBART
OREN SHAW HUSSEY Nashua, N. H. An Experimental Determination of the Pressure on Lathe Tools (with E. A. Jones).
EDWARD ARCHIE JONES Pittsfield, Mass. An Experimental Determination of the Pressure on Lathe Tools (with O. S. Hussey).
CHARLES BENJAMIN KENDALL Manchester, N. H. The Action of Alizarine Assistant in Turkey-Red Dyeing.
WILLIAM DOWNING LIVERMORE Charlestown, Mass. The Action of Dilute Nitric Acid on Substituted Aromatic Amido Compounds.
PHILIP ALONZO 'MOSSMAN Beverley, Mass. Smelting of Calumet and Hecla "Black Jack" for Black Copper.

Samuel Parsons Mulliken Newburyport, Mass.
The Action of Nitro-sulphuric Acid on certain Toluol Derivatives.
GEORGE LINCOLN NORRIS Melrose, Mass.
The Smelting of Fine Lead Ores.
George Washington Patterson, Jr Westfield, N. Y.
(A.B., Yule University.)
Experiments on the Blake Transmitter (with H. J. Tucker).
Quintard Peters Atlanta, Ga.
A History of the Iron and Steel Tariffs from the Adoption of the Con- stitution to the Civil War, 1789-1860.
HERBERT APPLETON RICHARDSON Boston, Mass.
Linoleic Acid.
Franz Herman Schwarz Boston, Mass.
A Design for a Mine-Holsting Plant,
The state of the s
HENRY DARRAH SEARS Dubuque, Iowa.
Researches relating to the Melting Platinum Standard of Light (with G. Taintor).
FRANK EDWARD SHEPARD Dorchester, Mass.
Experiments on the Steam Injector and Apparatus for the Determination of the Velocity of the Delivered Water (with E. G. Thomas).
CHARLES PORTER SMITH Cambridge, Mass.
Water-Meters (with A. H. Twombly),
HARRY ERNEST SMITH Marshalltown, Iowa.
The Oxidation of Ricinolic Acid.
The Oxidation of Arthone Actor
Jonas Waldo Smith Lincoln, Mass.
A Discussion of the Flow of Water over Submerged Weirs.
HENRY SOUTHER, Jr South Boston, Mass.
A Method of Treatment of a rich Gold and Silver Ore,
Hollon Curtis Spaulding East Boston, Mass.
A Design for an Oscillating Cylinder Marine Engine, with Original Valve
Motion.

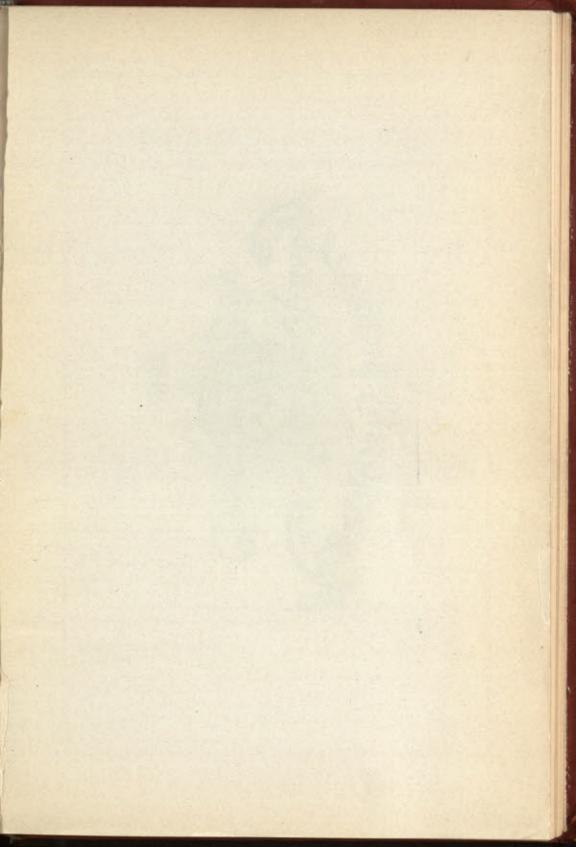
TIMOTHY WILSON SPRAGUE Fitchburg, Mass. Treatment of a Leadville Carbonate Ore.
JAMES HUGH STANWOOD Portland, Me.
An Examination into the Economical Arrangement of the Kinzua Via- duct, together with a Design for a Bridge with Separate Piers (with W. A. Whitney).
HENRY FARRIS STODDARD Plymouth, Mass.
An Experimental Investigation of the Strength and Elasticity of Shafting subjected to combined Twisting and Bending.
GILES TAINTOR Keene, N. H.
Researches relating to the Melting Platinum Standard of Light (with H. D. Sears).
EDWARD GALBRAITH THOMAS
Experiments on the Steam Injector and Apparatus for the Determination of the Velocity of the Delivered Water (with F. E. Shepard).
FREDERICK THOMPSON Washington, D. C.
Location and Estimates for a Narrow-Gauge Railway from Davis Mine to Charlemont, Mass. (with F. G. Burgess).
WALTER SCOTT THOMPSON Boston, Mass.
The Tensile Strength of Cement as affected by the Fineness of Grinding, and the Change of Dimension of Cement during Induration (with W. C. Cushing).
GREENLEAF ROBINSON TUCKER Boston, Mass.
A Method for the Determination of Carbonic Acid in the Air, adapted to Public Institutions, and an improved Method for the
Bacterioscopic Examination of Air.
HARVEY JUDSON TUCKER Providence, R. I.
Experiments on the Blake Transmitter (with G. W. Patterson, Jr.)
ALEXANDER HAMILTON TWOMBLY Boston, Mass.
Water-Meters (with C. P. Smith).
RALPH VOSE
The Effects of Projecting Teeth in Armatures.

WALTER GRAY WHITMORE Plymouth, Mass
GRANGER WHITNEY Beverly, Mass. Concentration and Burning of Fine Pyrites from Capelton, P. Q.
WILLIAM AUGUSTUS WHITNEY Boston, Mass.
An Examination into the Economical Arrangement of the Kinzua Via- duct, together with a Design for a Bridge with Separate Piers (with J. H. Stanwood).
HERBERT AUGUSTUS WILCOX Somerville, Mass. Some Experiments on the Treatment of Argentiferous Blende.
SIDNEY WILLIAMS Boston, Mass.
The Location of a Railroad from Medford to Stoneham, Mass., to con- nect with the Boston & Maine Raidroad or the Boston & Lowell Railroad.

: Certificates Awarded :

TO

EDWARD P. HUTCHINSON	Danvers Centre, Ma
HORACE F. RUGGLES	Brookline, Mass.
HORACE B. SPERRY	Oakland, Cal.
Of the School of Mechanic	Arts.
THOMAS B. AKIN	New Bedford, Mass.
WILLIAM A. CODDING	New Bedford, Mass.
FRANK CROWTHER	Canton, Mass.
MARION B. CURTIS	Boston, Mass.
FRED. W. GREEN	Boston, Mass.
WALTER C. HADLEY	New Bedford, Mass.
PHILIP B. JENNINGS	Warren, Mass.
FRANK C. MATHEWSON	Providence, R. I.
JAMES L. G. RAND	Dover, N. H.
WILLIAM C. SHEEDY	New Bedford, Mass.
Joseph C. Stedman	Jamaica Plain, Mass
Mary R. Sweet	Hyde Park, Mass.
Of Lowell School of Practica	d Design.
ALBERT BRYANT	Melrose, Mass.
WILLIAM C. SMITH	Taunton, Mass.
Nellie L. Hawes	Dorchester, Mass.
Of Textile Department, Lowell School of	Practical Design.





: Eighty: Seven's Class Day :

THE men who graduated last spring from our renowned institution, and who now are struggling for bread, butter, and fame, look back, no doubt, upon their former pursuits, and think them trivial in comparison with the weighty problems now attached. But there is not one who will ever forget the Class Day held on the 30th of May. It was a worthy ending to the famous career of the Class of '87, and may be regarded as their greatest achievement.

The exercises commenced in the afternoon, at Huntington Hall. The attention of the visitors was first drawn by the class-tree, which was wound and re-wound with silken ribbon, and bore a large '87 at the top. Ascending the gaily draped stairway, they were received by members of the Class-Day Committee, who endeavored to suit everybody with regard to seats. The hall was decorated with a profuse show of plants, bunting, and the class colors, "'87;" and "Meliora Speramus," being two of the designs which attracted attention. The seats were soon all taken. The members of the Class sat with their friends, the stage being occupied by those who were to take part in the programme. Their ease and grace as they sat there, the cynosure of all eyes, was remarked by all.

President Frank E. Shepard first offered a few words of welcome, and explained why there could be no oration, as the orator, Mr. Hadaway, was ill. This was better explained later, when the Statistician announced Mr. Hadaway as the recipient of the highest marks for the four years. The Glee Club, under Mr. Thompson, then favored the audience in a pleasing manner.

George Odist Draper then delivered the ode, in which he depicted '87 as a dethroned goddess, followed into exile by her still faithful subjects. He ended by lamenting the causes which separated them;

"For where the seer who can foretell That this be not our last farewell."

Then the modest and blonde Hollon C. Spaulding recited the history of the Class, bringing up such a flood of reminiscences that his pathetic verses at the end nearly overcame the already sorrowful audience.

The Glee Club again cheerily warbled, and Mr. Shepard sang a serenade, which made a deep impression on the many young ladies.

Giles Taintor, the "Bard of Keene," and class poet par excellence, then in a Homeric and stirring poem related the achievements of the Class, and how

"They kept great '87's royal name Forever first upon the scroll of fame."

The appreciative audience will not be surprised to learn that a cipher has been discovered in an inscription upon an ancient Keene milestone, which states that "Giles Taintor Read Shakespeare's Plays."

George Washington Patterson, Jr., A.B., S.B., stood up and gave the statistics of the class, which were highly interesting. When he blushingly stated that Henry D. Sears and himself were a tie for the position of handsomest man, each having received four votes, a plurality of two over the nearest competitor, there was so much interest manifested by the audience that he blushingly retired behind the big table. The other physical statistics caused much amusement, the only regret being that there had not been enough.

While a still hunt was being made for Mr. Sears, the Glee Club sang one of Mr. Spaulding's choice productions.

Charles Q. Peters, striking a dramatic attitude, delivered the prophecy, which showed that he possessed strange clairvoyant powers. Some of the men were to be civil engineers, some miners or chemists, and some General Grants. We are anxiously awaiting the fulfillment.

The audience was then confided to the mercies of the Class, who piloted them around, showing the various places of interest, not forgetting the chapel.

In the evening the Vendome looked as if a brilliant wedding was taking place. The awning, the music, the flowers, and the guests, all made a charming scene. It was the reception held by the Class to their friends. The guests were introduced to the class officers, and after they had all assembled dancing commenced, which was kept up during the remainder of the evening. The whole lower floor of the hotel was devoted to the affair, and the parlors were splendid for têle-a-têles. There was a bewildering galaxy of female loveliness, and if every fellow didn't enjoy himself it was strange. At last it all came to an end, but the memory will live for many years to come, marking the happiest day in the long career of the Class.

: Eighty-Seben Class Officers :

President.

F. E. SHEPARD.

Vice-Presidents.

T. W. SPRAGUE.

H. C. SPAULDING.

Secretary.

G. F. CURTISS.

Treasurer.

G. O. DRAPER.

CLASS-DAY COMMITTEE.

Chief Marshal.

Second Marshal.

FRANK E. SHEPARD.

Aids.

HENRY D. SEARS.

T. W. SPRAGUE.

GEO. O. DRAPER.

GEO. F. CURTISS.

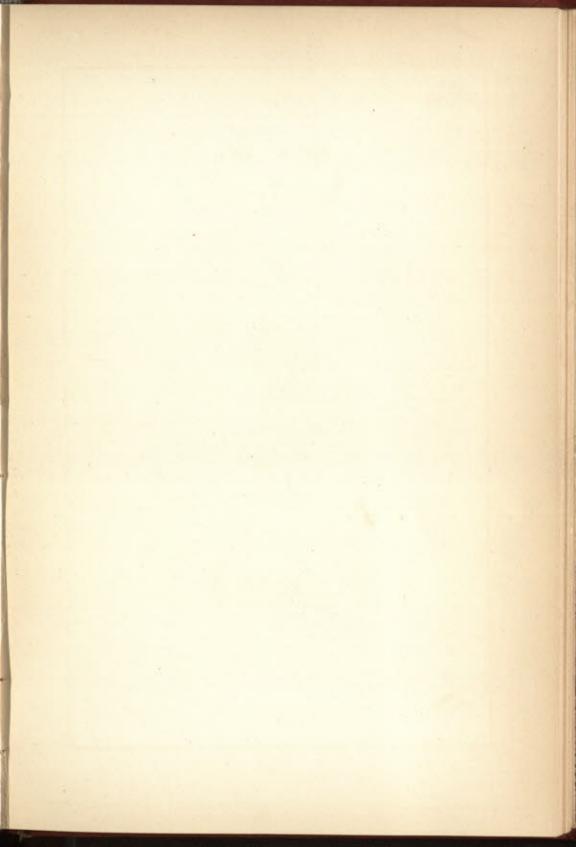


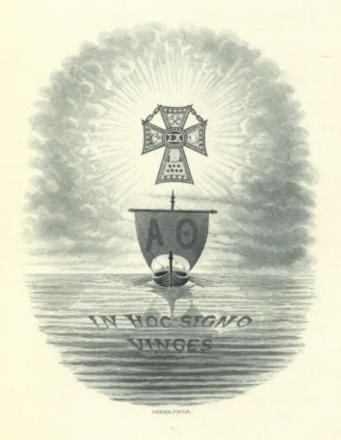
: Sigma Chi :

FOUNDED 1855.

ROLL OF CHAPTERS.

*1855.	Α.	OHIO WESLEYAN UNIVERSITY Delaware, O.
1857.	H.	University of Mississippi Oxford, Miss.
1858.	Λ.	INDIANA STATE UNIVERSITY Bloomington, Ind.
1859.	E.	INDIANA ASBURY UNIVERSITY Greencastle, Ind.
1859.	0.	DICKINSON COLLEGE Carlisle, Pa.
1859.	Ψ.	UNIVERSITY OF VIRGINIA University, Va.
1863.	θ.	PENNSYLVANIA COLLEGE Gettysburg, Pa.
1864.	K.	University at Lewisburg Lewisburg, Pa.
1866.	Z.	WASHINGTON AND LEE UNIVERSITY . Lexington, Va
1866.	P.	BUTLER UNIVERSITY Urvington, Ind.
1867.	Φ.	LAFAVETTE COLLEGE Easton, Pa.
1867.	M.	DENISON UNIVERSITY Granville, O. NORTHWESTERN UNIVERSITY Evanston, Ill. Hanover College
1869.	Ω,	NORTHWESTERN UNIVERSITY Evanston, Ill.
1871.	X.	HANOVER COLLEGE Hanover, Ind.
*1872.	П.	HOWARD COLLEGE Marion, Ala.
1872.	T.	ROANOKE COLLEGE Salem. Va.
1872.	Σ. Σ.	HAMPDEN-SYDNEY COLLEGE, Hampden-Sydney Col., Va.
1873.	В.	WOOSTER UNIVERSITY WOOSTER, U.
1874.	Г. Г.	RANDOLPH-MACON COLLEGE Ashland, Va.
1874.	Δ. Δ.	PURDUE UNIVERSITY Lafayette, Ind.
1876.	Z. Z.	CENTER COLLEGE Danville, Ky.
1877.	θ. θ.	University of Michigan Ann Arbor, Mich.
1880.	Δ. X.	WABASH COLLEGE Crawfordsville, Ind-
*1881.	K. K.	ILLINOIS INDUSTRIAL UNIVERSITY . Champaign, Ill.
1882.	Z. Y.	University of Cincinnati Cincinnati, O.
1882.	Х. 4.	University of Louisiana New Orleans, La.
1882.	А. Г.	OHIO STATE UNIVERSITY Columbus, O.
1882.	A. Z.	BELOIT COLLEGE Beloit, Wis.
1882.	A. H.	University of Iowa Iowa City, Iowa.
1882.	Α, θ.	Mass. Institute of Technology Boston, Mass.
1883.	Α. Δ.	STEVENS INSTITUTE OF TECHNOLOGY . Hoboken, N. J.
1883.	A. E.	University of Nebraska Lincoln, Neb.
1883.	A. I.	ILLINOIS WESLEYAN UNIVERSITY . Bloomington, Ill.
*1883.	A. K.	HILLSDALE COLLEGE Hillsdale, Mich.
1884.	A. A.	WISCONSIN STATE UNIVERSITY Madison, Wis-
*1884.	A. M.	VIRGINIA MILITARY ACADEMY Lexington, Va.
1884.	φ. φ.	University of Pennsylvania Philadelphia, Pa.
1884.	A. Ξ.	University of Kansas Lawrence, Kas.
1884.	A. Nu.	University of Texas Austin, Tex.
1886.	A. 0.	TULANE UNIVERSITY New Orleans, La.
1886.	А. П.	Albion College Albion, Mich.
1886.	A B	University California Berkeley, Cal.





: Sigma Chi Fraternity:

ALPHA THETA CHAPTER.

ESTABLISHED MARCH 22, 1882.

ACTIVE MEMBERS.

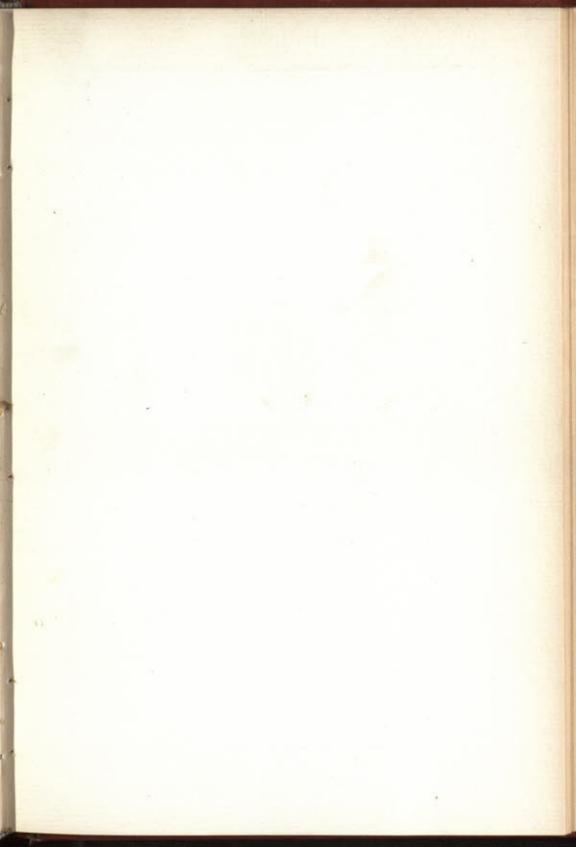
EDWIN A. PALMER.
JOHN RAY.
CLARENCE B. VORCE.
EDWARD T. NEWTON.
EDWARD W. HERRICK.
AMBROSE P. GAINES.
FRED C. JARECKI.
ELBRIDGE G. DUNCAN.

ROBERT C. SPENCER, Jr.
JAMES S. NEWTON.
FRANK M. LADD.
FRED W. RANNO.
PAUL H. TRACY.
CHARLES H. MUHLENBURG.
BRYANT WILLARD.
FRANK L. PIERCE.

: Cheta Xi:

ROLL OF CHAPTERS.

- 1864. A. Rensselaer Polytechnic Institute.
- 1867. B. Yale College.
- 1874. F. Stevens Institute of Technology.
- 1885. A. Massachusetts Institute of Technology.





AA Lovell & On Bottle

: Theta Xi Fraternity :

DELTA CHAPTER.

MEMBERS.

ALPHEUS W. CHITTENDEN. CHARLES HAYDEN.

WALTER ELLIS.

STEJIRAU FUKUZAWA.

HAROLD GORDON GROSS. RICHARD LEE RUSSEL.

ANTHIME WATSON LAROSE.

WILLIAM MUNROE RICKOFF.

WARNER J. STEEL.

In Urbe.

EDWARD LYMAN BROWN.

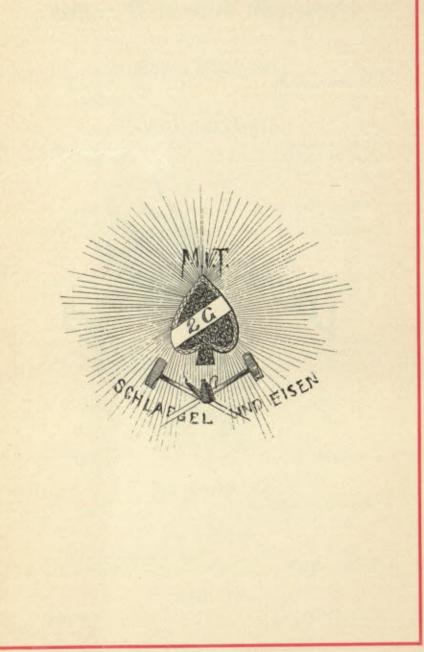
MORTON EDDY COBB.

HORACE SOUTHWORTH FRAZIER. TIMOTHY WILSON SPRAGUE.

: Other Fraternities Represented :

ALPHA DELTA PHI.
J. C. SMITH Brunonian Chapter. C. K. RICHMOND Brunonian Chapter.
BETA THETA PI.
J. MILLARD Lambda Chapter. S. O. Dauchy Chi Chapter.
CHI PSI.
H. J. HORN, Jr Alpha Nu Chapter. C. H. Alden, Jr Alpha Nu Chapter. E. A. EMERY Alpha Nu Chapter.
DELTA KAPPA EPSILON.
J. W. Case Univ. of Michigan. F. M. Donnell
DELTA PSI.
J. H. Towne
DELTA TAU DELTA.
L. A. FORD Chapter Zeta.
KAPPA ALPHA. SOUTHERN ORDER.
B. S. REDD Eta Chapter.
PHI KAPPA PSI. J. E. DOAK Alpha Chapter of California.
PSI UPSILON.
G. W. PATTERSON, Jr., A.B., S.B Beta Chapter. J. N. BULKLEY Lambda Chapter.
ZETA PSI. SHERIDAN PLAISTED
SHERIDAN PLAISTED





: 2 & Society :

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Vice-President.

AMBROSE P. GAINES.

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Treasurer.

Benjamin F. Wilson, Jr., G. K. T. William M. Beaman.

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WILLIAM M. BEAMAN.

A. Sydney Warren.

AMBROSE P. GAINES.

BENJAMIN F. WILSON, Jr.

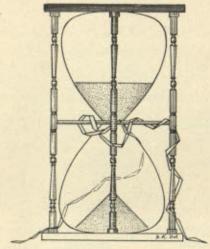
In Boston.

CAPT. D. A. LYLE, '84.

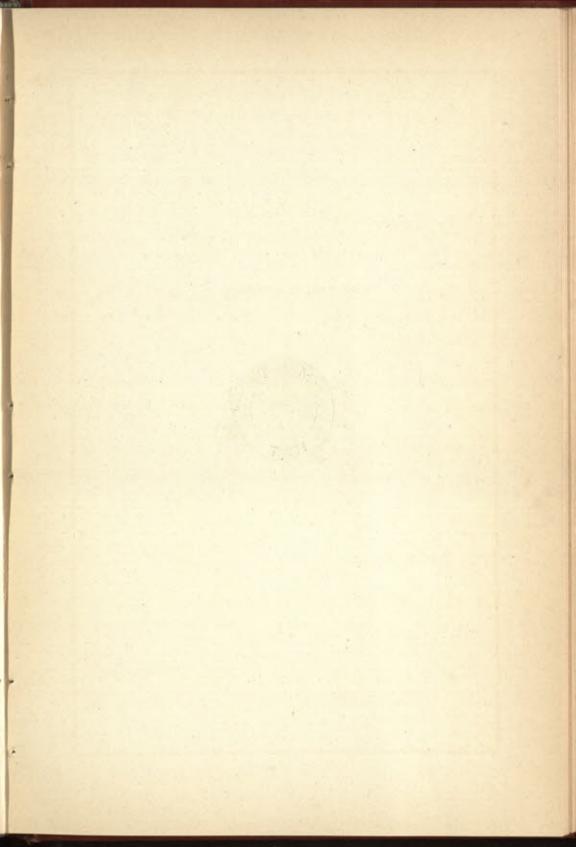
FREDERICK H. NEWELL, '85. EVERETT MORSS, '85. ARTHUR C. ANTHONY, '86.

TIMOTHY W. SPRAGUE, '87.

" Say why did Time his glass sublime
Fill up with sands unsightly



Wzen wine he knew rung faster through Nod Spankles far more brightly?"





-4

: Hammer and Congs :

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Vice-President.

J. L. MAURAN, '89.

Secretary.

N. Durfee, '89.

Treasurer.

H. FRENCH, '89.

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HENRY FORBES BIGELOW. HAROLD OSGOOD BINNEY. WILLIAM LINCOLN HARRIS. HENRY JOHN HORN, Jr. WILLIAM ELTON MOTT. ALGERNON SYDNEY WARREN.

Class of 1889.

ZENAS WORK BLISS. CHARLES NEWTON BORDEN. JOSEPH NORMAN BULKLEY. JAMES WELD CARTWRIGHT, Jr. EARL WARREN GANNETT. HENRY ADAMS CRAIGIN.

ARTHUR LINCOLN DAVIS. NATHAN DURFEE. HOLLIS FRENCH. JOHN LAWRENCE MAURAN.

GEORGE CANNING WALES.

Class of 1890.

JOHN LANGDON BATCHELDER, Jr.

BENTON STURGES.



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Secretary.

Treasurer.

James W. Cartwright, Jr., '89. Fred L. Hopkins, '89.

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CHARLES G. MERRELL, '88. GEORGE L. HEATH, '88.

CHARLES R. WALKER, '89.

MEMBERS.

1888.

ARTHUR J. CONNER.

CHARLES G. MERRELL.

GEORGE L. HEATH.

CLARENCE W. SMITH.

FRANK W. SMITH.

1889.

SPAULDING BARTLETT.

JAMES T. GREELEY.

JAMES W. CARTWRIGHT, Jr. FRED L. HOPKINS.

JAMES P. GILBERT.

CHARLES R. WALKER.

1890.

HENRY H. POPE.

In Boston.

A. A. Noyes, '86.

C. B. KENDALL, '87.

GEO. C. DEMPSEY, '88. HARRY W. CLARK, '87.



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Vice-President.

JAMES C. T. BALDWIN.

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Treasurer.

BENJ. G. BUTTOLPH.

WILLIAM T. KEOUGH.

Entertainment Com m

HENRY J. HORN, Jr.

Louis A. Ferguson.

ARTHUR T. BRADLEE.

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LILLIAN G. CURRIER. MARY HUTCHINSON.

ISABEL F. HYAMS.

Annie G. Rockfellow.

ADELAIDE SHERMAN.

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JAMES C. T. BALDWIN. BENJAMIN G. BUTTOLPH. DAVID A. CENTER. ARTHUR H. CHESTER. GEORGE E. CLAFLIN. BERTRAND R. T. COLLINS.

ARTHUR T. BRADLEE. ARTHUR J. CONNER. CHARLES H. CROMWELL. GEORGE C. DEMPSEY. RICHARD DEVENS. HENRY F. EASTMAN. FRED E. ELLIS. ALFRED B. ELLSWORTH. RICHARD EPPES, Jr. Louis A. Ferguson. THEODORE A. FOGUE. STEJIRAU FUKUZAWA. JAMES E. FULLER, Jr. WILLIAM H. GERRISH. EDWARD S. GOULD. HAROLD G. GROSS. GEORGE W. HAMBLET. GEORGE L. HARVEY. GEORGE L. HEATH.

EDWARD COLLINS, Jr. GEORGE U. G. HOLMAN. HENRY J. HORN, Jr. ALEXANDER L. KEAN. WILLIAM T. KEOUGH. ERNEST S. MAY. CHARLES G. MERRELL. SUMNER B. MERRICK. WILLIAM E. MOTT. RUSSELL ROBB. JOHN C. RUNKLE. W. E. SILSBEE. WILLIAM G. SNOW. RALPH SWEETLAND. WILLIAM W. UNDERHILL. ALGERNON S. WARREN. EDWIN S. WEBSTER. ARTHUR S. WILLIAMS. VICTOR WINDETT.

STEWART WRIGHTINGTON.

POEM OF SOCIETY OF '88.

NCE more, my boys, we're gathered here,
In friendship fond and loving;
Long may the memory of it cheer
Our hearts, where'er we're moving.

No, never shall our souls forget

The friends we found so cordial-hearted;

Dear shall be the days we met,

And dear the night we parted.

Oh! if regrets, however sweet,

Must with the lapse of time decay,
Yet still, when thus in mirth we meet,
Fill high to those who're far away.

And when we're scattered far apart In the future, whate'er our fate, Let each one treasure in his heart The memory of Eighty-Eight!

SYDNEY WARREN.



: Society of '89 :

President.

FRANKLIN WARREN HOBBS.

Vice-President.

HOLLIS FRENCH.

Secretary.

Treasurer.

JAMES P. GILBERT.

EDWARD S. HUTCHINS.

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ZENAS W. BLISS.

JAMES W. CARTWRIGHT, Jr.

WILLIAM H. MERRILL, Jr.

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ARTHUR W. AYER. SPAULDING BARTLETT GEORGE M. BASFORD. EDWARD J. BEACH. CHARLES E. BEALS. ZENAS W. BLISS. CHARLES N. BORDEN.

HARRY W. CLEMENT. ROLAND N. CUTTER. FRANK L. DAME. WILLIAM M. DUANE. HARRISON G. DYAR. ARTHUR L. DAVIS. NATHAN DURFEE. ARTHUR V. EDWARDS. Frederick W. Bradley. Arthur V. Edwards.

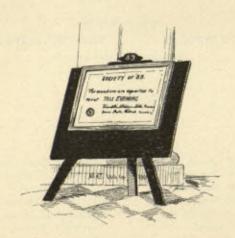
James W. Cartwright. Willard W. Estabrook.

TECHNIQUE.

J. PARKER B. FISKE. HOLLIS FRENCH. ARTHUR M. FORRISTALL. IRVING I' H. GARDINER. DAVID P. GOODRICH. EARL W. GANNETT. JAMES P. GILBERT. BENJAMIN W. GUPPY. EDWARD M. HARRINGTON. SCHUYLER HAZARD. FRANKLIN W. HOBBS. FRANCIS R. HART. HENRY M. HOBART. FREDERICK L. HOPKINS. EDWARD S. HUTCHINS. HENRY HOWARD. JOHN S. HYDE. LEWIS E. JOHNSON. WILLIAM S. JOHNSON. PAUL J. KENDRICKEN.

GEORGE C. KAUFMAN. ARTHUR D. KINSMAN. LOUIS M. LATTA. ANTHIME W. LAROSE. WILLIAM W. LEWIS. EDMUND P. MARSH. SAMUEL H. MELDRAM. WILLIAM H. MERRILL, Jr. FRANK L. PIERCE. CLAYTON W. PIKE. THEODORE W. PIETSCH. WILLIAM G. PLUMER. MONTGOMERY ROLLINS. MONROE W. RICKOFF. WILLIAM L. SMITH. GOODWIN G. STONE. WILLIAM B. THURBER. FRANK P. WHITNEY. GEORGE C. WALES. GEORGE A. WHITMORE.

THEODORE G. WILLIAMS.



: Society of '89 Quartet :

First Tenor, HOLLIS FRENCH.

Second Tenor, Jas. W. CARTWRIGHT, Jr.

First Bass, GEORGE C. WALES.

Second Bass, HALL GLEASON.

: Society of '90:

OFFICERS.

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R. G. BROWN.

Vice-Presidents.

J. H. TOWNE.

W. B. POLAND.

Executive Committee.

C. E. RIPLEY. H. B. ROBERTS. G. L. CALKINS. W. L. CREDEN.

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E. M. BEALS.

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G. D. CHAPMAN.

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J. C. E. DEBULLET.

F. H. Dodge.

P. S. DUPONT.

T. C. EMMERSON.

S. D. FLOOD.

J. R. HALL.

C. HAYDEN.

G. A. HILTON.

G. HUBBARD.

E. M. K. MACHADO.

F. A. McDonald.

S. W. Moor.

C. C. BABB.

J. B. BLOOD.

G. N. CALKINS.

J. A. CARNEY.

H. C. CLAPP.

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G. W. Dodd.

W. J. DORE.

WALTER ELLIS.

W. I. FINCH.

E. D. GARFIELD.

G. L. HAWS.

L. M. HILLS.

S. E. HORTON.

H. W. KERN.

W. B. MARTIN.

F. METCALF.

E. A. NEWTON.

TECHNIQUE.

G. A. ORROK.

EVANS PRESTON.

C. E. RIPLEY.

H. B. ROBERTS.

S. Schieffelin.

H. C. SLATER.

H. P. SPAULDING.

E. B. STEARNS.

F. W. SWANTON.

G. W. TAYLOR.

J. N. TRIPPE.

L. C. WASON. G. F. WELD.

E. P. WHITTEN. .

W. B. POLAND.

W. B. REED.

W. Z. RIPLEY.

A. H. Rogers.

E. T. SIMPSON.

G. A. SONNEMAN.

A. H. SPRING.

B. STURGES.

G. P. TALLANT.

J. H. TOWNE.

H. M. WAITE.

C. M. WATSON.

W. F. WELLS.

R. W. WOODMAN.

: The '90 Quintet Club :

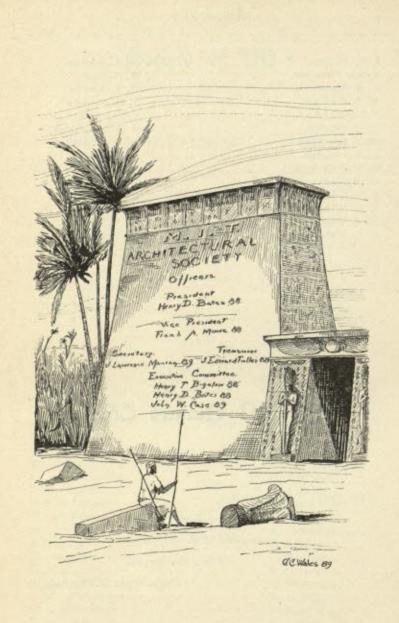
First Violin, F. W. SWANTON.

Second Violin, PHILIP HARVEY.

Violoncello, H. P. SPAULDING. .

Violo, Mr. MEYER.

Piano, GARY N. CALKINS.





MEMBERS:

HOSATES:

H: F:BIGELOW ELECABLETON JORDCASE JETULLER PAPLOORE WI: PROCTOR JA G:C:SHATTUCK CHICLEMENCE E:ACRANE H:CDITTRICE ANEDWARDS D:P:GGODRICH WHITIMAP AW:LAROJE CHLAROSE J:LMANIRAN W:G:PLUHER JMMANKIN THUPPETICH RICUTENCER CONSTONE HWINMKINH PWTRACY GOKAWITLAN



OFFICERS.

President.

T. W. PIETSCH.

Vice-President.

VICTOR WINDETT.

Secretary.

A. J. CONNER.

Treasurer.

G. C. KAUFMAN.

Recorder.

G. D. CHAPMAN.

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VICTOR WINDETT, '88.

J. T. GREELEY, '88.

L. E. Johnson, '89.

T. W. PIETSCH, '89.

J. R. HALL, '90.

G. C. KAUFMAN, '89.

G. W. STONE, '89.

R. G. BROWN, '90.

J. C. T. BALDWIN, '88.

C. G. MERRELL, '88.

J. C. SMITH, '88.

A. E. WOODWARD, '88.

J. B. BAKER, '90.

A. J. CONNER, '88.

G. D. CHAPMAN, '90.

: Co:Operative Society:

OFFICERS.

President.

L. A. FERGUSON.

Vice-President

G. M. BASFORD.

Secretary.

S. FUKUZAWA.

Treasurer.

S. W. HOLMAN.

Directors.

J. C. T. BALDWIN, '88.

W. H. MERRILL, '89.

W. B. POLAND, '90.

F. C. BLANCHARD, '91.



OFFICERS.

President.

JOHN H. TOWNE, '90.

Vice-President.

DARRAGH DE LANCEY, '90.

Secretary,

FRANCIS R. HART, '89.

Treasurer.

Е. М. А. Маснадо, '90.

Executive Committee.

GEO. D. CHAPMAN, '90, with officers ex officio.

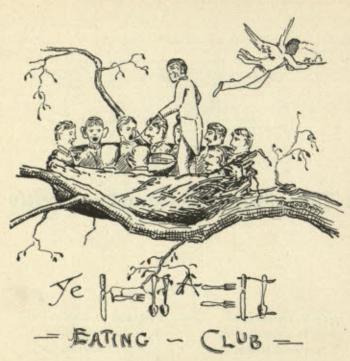
: Technology Photographic Society:

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GEO. D. CHAPMAN, '90.
J. H. FRIEDLANDER, '91.
E. W. GANNETT, '89.
HAROLD G. GROSS, '88.
GEO. E. HALE, '90.
CHAS. HANSEN, '91.
FRANCIS R. HART, '89.
G. C. KAUFMAN, '89.

Darragh de Lancey, '90.
A. W. Larose, '89.
E. M. A. Machado, '90.
G. F. Sever.
A. H. Spring, '90.
A. H. Spring, '90.
Fred. W. Swanton, '90.
J. G. Thompson, '91.
G. H. Taylor, '90.

JOHN H. TOWNE, '90.



: General: Athletics :



"We fall and feel we cannot rise, While others grasp the sacred prize."



1887-88.

OFFICERS.

President.

H. G. GROSS, '88.

Vice-President.

R. Rовв, '88.

Secretary.

N. Durfee, '89.

Treasurer.

R. L. RUSSEL.

Executive Committee.

H. G. Gross, '88.

N. Durfee, '89.

R. L. RUSSEL, '89.

R. DEVENS, '88.

F. L. DAME, '89.

H. M. WAITE, '90.

J. HALE, '91.

: Indoor Winter Meeting :

December 18, 1886.

Putting Shot	30 ft. 2 in J. C. E. DEBULLET, '90.
	6 ft. 64 in H. G. Gross, '88.
Standing High Jump .	4 ft. 74 in E. C. WASON, '90.
Running High Jump	4 ft. 6 in. (Walkover) E. C. WASON, '90.
Standing High Kick	7 ft. 7 in G. A. ARMINGTON, '87.
	8 ft. 11 in G. A. Armington, '87.
	J. B. LOEWENTHAL, '87.
	(Walkover) F. E. Ellis, '88.
	F. E. Ellis, '88.
	Class of '89-

Summary.

'87	won	14	*					100	80			*	3
	44												
	44												
100	44.	1		*	*	4				*		*	3

: Indoor Spring Meeting :

March 5, 1887.

Putting Shot	35 ft. 91 in.		J. D. RYAN, Y. M. C. A.
Fence-vault	6 ft. 83 in		W. L. Dearborn, '88.
Standing High Jump .	4 ft. 104 in.		F. H. Rogers, H. A. A.
Running High Jump .	5 ft. 5 in	,	W. G. IRWIN, B. Y. M. C. U.
Running High Kick	8 ft. 9½ in		E. C. Wason, '90.
Feather-weight Sparring			F. J. KELLEY, B. Y. M. C. U.
Light-weight Sparring			W. Austin, H. A. A.
Middle-weight Sparring			G. M. ASHE, H. A. A.
Tug of War			M. I. T.



: Outdoor Spring Meeting :

Lynn, May 7, 1887.

100 Yards Dash	11 1-8 s	,	J. E. FULLER, '88.
220 Yards Dash	24 4-5 8		F. L. PIERCE, '89.
Quarter Mile Run	I m. I 4-5 s	7	C. L. Holmes, '88.
Half Mile Run	2 m. 20 3-5 8	*	F. W. SMITH, '90.
One Mile Run	5 m. 7 3-5 s		G. W. ROPER, '88.
Standing Broad Jump .			
One Mile Bicycle Race .	3 m. 16 2-5 s		C. H. WARNER, 89.
Two Mile Bicycle Race .	6 m. 40 I-4 s.	20	C. H. WARNER, '89.
Three Mile Bicycle Race,	12 m. 57 s	27	C. H. WARNER, '89.

Summary.

'88 wor	1 .		 -		*				3
'89 "				,	*	F		23	4
'90 "									



: Gest American College Records:

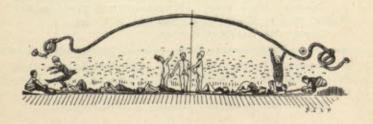
Up to October 1, 1887.

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100 Yards Run . . . 10 S. . . . E. J. WENDELL . Harvard.
220 Yards Run . . . 22 s. . . . W. Baker . . . Harvard.
Quarter Mile Run . . 50 1-4 s. . . W. Baker . . . Harvard.
Half Mile Run . . . 2 m. 1-5 s. . W. Baker . . . Harvard.
One Mile Run . . . 4 m. 36 4-5 s., W. HARMER . . Yale.
Three Mile Run . . . 16 m. 21 s. . E. C. Stimson . Dartmouth.
120 Yards Hurdle . . 17 s. . . W. H. LUDINGTON Yale.
One Mile Walk . . . 7 m. 1 s. . . E. B. WRIGHT . Harvard.
Two Mile Walk . . . 15 m. 104 s. . H. H. Bemis . . Harvard.
Three Mile Walk . . 24 m. 142 s. . H. H. Bemis . . Harvard.
Seven Mile Walk . . 58 m. 52 s. . H. H. Bemis . . Harvard.
Two Mile Bicycle Race, 6 m. 17 s. . . G. A. E. KOHLER Univ. of Pa.
Running High Fump . 6 ft. & in. . . W. B. PAGE . . Univ. of Pa.
Standing High Jump . 5 ft. 11 in. . W. Soren . . . Harvard.
Running Broad Jump . 21 ft. 71 in. . T. G. SHERMAN . Yale.
Standing Broad Jump, 10 ft. 3% in. . F. LARKIN . . . Princeton.
Pole-vault . . . . . 10 ft. 74 in. . L. D. Godshall . Lafayette.
Throwing the Hammer, 95 ft. 11 in. . A. B. Coxe . . Yale.
Putting the Shot . . . 40 ft. 92 in . A. B. Coxe
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After May, 1887, no records except those made at the games of the Intercollegiate Athletic Association stand as college records.

: Gest Institute Records :

100 Yards Run . . . F. R. Young, '86. 10 3-5 8. 220 Yards Run 24 4-5 5. . . . F. L. PIERCE, 'Sq. Quarter Mile Run . . 58 2-5 8. . . . L. R. Совв. '86. Half Mile Run . . . 2 m. 17 3-4 s. . . H. F. HILL, '87. One Mile Run . . . 5 m. 7 3-5 s. . . G. W. ROPER, '88. 120 Yards Hurdle . . . 19 2-5 s. . . S. STURGES, '87. One Mile Walk . . . 8 m. 16 s. . . J. DUFF, '81. Two Mile Bicycle Race . 6 m. 40 1-4 s. . C. H. WARNER, 'So. Standing High Jump . 4 ft. 10 in. . . F. R. Young, '86. Running Broad Jump . 17 ft. 4 1-2 in. . M. E. Cobb, '87. Standing Broad Jump . 9 ft. 7 in. . . E. C. WASON, '90. Running High Kick . . 8 ft. 9 1-2 in. . E. C. WASON, '90. Fence-vault 7 ft. 2 in. . . . W. F. RIPLEY, '82. Pole-vault 9 ft. 4 in. . . . E. T. Sturgis, '84. Putting the Shot (16 lbs.), 34 ft. 9 1-2 in. . P. R. FLETCHER, '87.





OFFICERS.

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QUINTARD PETERS, '87.

Vice-President.

G. O. DRAPER, '87.

Secretary and Treasurer.

F. L. DAME, '89.

Manager.

R. M. CLEMENT, '89.

Summary of Games for 1887.

t. April 13th, at Holmes Field, Cambridge.—Harvards, 8; Techs, o. Duane, '89, 1st b.; Edgerton, 2d b.; Ayer, '89, 3d b.; Smith, p.; Clement, '89, c. (capt.); Kimball, r. f.; Stone, '89, l. f.; Moore, '88, c. f.; Wood, '90, s. s.

Umpire: MR. ALLEN, of Harvard.

APRIL 23d, on Union Grounds, Boston. — Wor. Techs, 8; M. I. T., 1.
 STONE, c. f.; AYER, 3d b.; SMITH, 2d b.; KIMBALL, r. f.; CLEMENT, c.; CARLETON, p.; KENDRICKEN, l. f.; DUANE, 1st., b.; WOOD, 8: 8.

Umpire: Mr. HOLLAND.

: '89 Sophomore team :

Summary of Games.

April 25th, on Union Grounds.—M. I. T., '89, 11; English High School, 5.

Ayer, 3d b.; Clement, c. (capt.); Duane, 1st b.; Crabtree, l. f.; Thurber, l. f.; Rounds, 2d b.; Russell, s. s.; Pike, p.; Sheldon, r. f.; Durfee, c. f.

Umpire: Mr. STONE.

: '90 Freshman team :

Summary of Games.

1. April 24th, Quincy. - '90, 16; Adams Academy, 7.

Wood, p.; Kearns, c.; Taylor, ist b.; Stearns, 2d b.; Sloane, 3d b.; Beals, s. s.; Hilton, l. f.; Collins, c. f.; Tuckerman, r. f.

Umpire: A. L. Bumpus, Adams Academy.

2. APRIL 29th, Union Grounds. - '90, 8; Harvard, '88, 4-

WOOD, p.; STERN, c.; TAYLOR, 1st b.; EDGERTON, 2d b.; KEARNS, 3d b.; BEALS, s. s.; SLOANE, l. f.; OBRIEN, c. f.; TUCK-ERMAN, r. f.

Umpire: B. R. T. Collins, Technology, '88.

TECHNIQUE.

3. APRIL 30th, Newtonville. - '90, 7; Newtons, 4.

Wood, p.; Bigelow, c.; Taylor, ist b.; Edgerton, 2d b.; Kearns, 3d b.; Beals, s. s.; Collins, l. f.; Stearns, c. f.; Sloane, r. f.

Umpire: H. G. BAILEY, Technology, '89.

4. May 4th, Southboro. - '90, 9; St. Mark's, 2.

WOOD, p.; STERN, c.; TAYLOR, 1st b.; EDGERTON, 2d b.; KEARNS, 3d b.; BEALS, s. s.; COLLINS, l. f.; STEARNS, c. f.; SLOANE, r. f.

Umpire: H. G. BAILEY, Technology, '89.

5. May 6th, College Hill .- '90, 8; Tufts College, 4.

Wood, p.; Stern, c.; Taylor, 1st b.; Edgerton, 2d b.; Sloane, 3d b.; Beals, s. s.; Hilton, l. f.; Northey, c. f.; Tuck-erman, r. f.

Umpire: H. G. BAILEY, Technology, '89.

6. MAY 7th, Union Grounds. - '90, 10; CHAUNCY HALL, 7.

Wood, p.; Edgerton, c.; Taylor, 1st b.; Sloane, 2d. b.; Stearns, 3d b.; Wilson, s. s.; Tuckerman, l. f.; Obrien, c. f.; Kimball, r. f.

Umpire: H. G. BAILEY, Technology, '89.

Games won			200	140		 -		*	6
Lost		99					,		0
Scores made									
Made agains	st	10		-	40				28





OFFICERS.

P			

G. C. Dempsey, '88.

Secretary and Treasurer.

O. B. Roberts, '88.

Vice-President.

H. G. GROSS, '88.

Manager.

R. DÉVENS, '88.

Executive Committee.

RUSSELL ROBB, '88.

N. Durfee, '89.

E. B. STEARNS, '90.

TEAM.

Captain.

E. W. HERRICK, '88.

Sub-Captain.

F. M. LADD, '88.

Rushers.

C. B. VORCE, '88 Ends F. GOODHUE, Jr. '90. P. H. TRACY, '90 Tacklers . . . E. L. HAMILTON, '90. O. B. ROBERTS, '88 Guards . . . F. M. LADD, '88.

R. C. MITCHELL, '91 (centre).

Quarter-back.

E. W. HERRICK, '88.

Half-backs.

O. GERMER, '91.

W. M. DUANE, '89.

Full-back.

R. DEVENS, '88.

Substitutes.

B. WILLARD, '91.

H. G. GROSS, '88.

C. GARRISON, '91.

E. B. STEARNS, '90.

F. E. Ellis, '88.

J. A. HIGHLANDS, '91.

C. H. CROMWELL, '88.

Summary of Games for 1887.

1. Andover, October 8th.—Andover vs. Technology.

Rushers: Vorce, Tracy, Roberts, Mitchell, Ladd, Dame, Goodhue. Quarter-back: Herrick. Halves: Duane (Highlands), Germer. Full-back: Devens. Score: Technology, 6; Andover, o.

Referee: MR. KELLEY, Harvard Medical.

- UNION GROUNDS, October 12th.—HARVARD vs. Technology.
 Rushers: Vorce, Tracy, Roberts, Mitchell, Ladd, Dame.
 Goodhue. Quarter-back: Herrick. Halves: Germer, Garrison. Full-back: Devens. Score: Harvard, 12; Technology, 10.
 Referee: Mr. Brooks, Harvard, '87.
- 3. Union Grounds, October 13th.—Dorchester vs. Technology. Rushers: Vorce, Willard, Roberts, Mitchell, Hamilton, Dame, Goodhue. Quarter-back: Herrick. Halves: Devens, Germer. Full-back: Highlands (Garrison). Score: Technology, 12; Dorchester, o.

Referee: MR. KELLEY, Harvard Medical.

 JARVIS FIELD, CAMBRIDGE, October 15th.— HARVARD vs. TECHNOL OGY.

Rushers: Vorce (Garrison), Willard, Hamilton, Roberts, Mitchell, Dame, Herrick (Ellis). Quarter-back: Ellis (Herrick). Halves: Duane, Germer (Devens). Fullback: Devens (Highlands). Score: Harvard, 60; Technology, o.

Referee: Mr. Fiske, Harvard, '87. Umpire: Mr. Ladd, Technology, '88.

Union Grounds, October 17th.—Boston University vs. Technology.

Rushers: Vorce, Tracy, Roberts, Mitchell, Ladd, Dame, Goodhue. Quarter-back: Herrick. Halves: Duane, Germer. Full-back: Devens. Score: Technology, 21; Boston University, o.

Referee: Mr. Kelley, Harvard Medical.

6. Exeter, N. H., October 22d .- Exeter vs. Technology.

Rushers: Vorce, Tracy, Willard, Roberts, Ladd, Dame, Goodhue. Quarter-back: Herrick. Halves: Duane, Germer (Garrison). Full-back: Devens. Score: Exeter, 26; Technology, 14.

Referee: MR. FILMORE.

*7. Union Grounds, October 26th. — Dartmouth vs. Technology.

Rushers: Vorce, Tracy, Hamilton, Mitchell, Ladd, Dame, Goodhue. Quarter-back: Herrick. Halves: Duane, Germer. Full-back: Devens. Score: Technology, 24; Dartmouth, 15.

Referee: Mr. Kelley, Harvard Medical.

8. Union Grounds, October 29th .- Tufts vs. Technology.

Rushers: Hamilton, Tracy (Cromwell), Roberts, Mitchell, Ladd, Dame, Willard. Quarter-back: Herrick. Halves: Duane, Germer. Full-back: Devens. Score: Technology, 36; Tufts, o.

Referee: MR. GALLETLY, Tufts '87.

*9. Union Grounds, November 5th .- Trinity vs. Technology.

Rushers: Vorce, Tracy, Roberts, Mitchell, Ladd, Hamilton, Goodhue. Quarter-back: Herrick. Halves: Duane, Germer. Full-back: Devens. Score: Technology, 74; Trinity, o.

Referee: MR. PHINNEY, Princeton.

*10. AMHERST, November 12th .- AMHERST vs. TECHNOLOGY.

Rushers: Vorce, Tracy, Cromwell (Roberts), Mitchell, Ladd, Hamilton, Willard. Quarter-back: Herrick. Halves: Duane, Germer. Full-back: Garrison. Score: Technology, 52; Amherst, o.

Referee: MR. KELLEY, Harvard Medical.

*II. HOBOKEN, N. J., November 19th .- STEVENS vs. TECHNOLOGY.

Rushers: Vorce, Tracy, Roberts, Mitchell, Ladd, Hamilton, Willard. Quarter-back: Herrich. Halves: Duane, Germer. Full-back: Garrison. Score: Technology, 24; Stevens, o.

Referee: Mr. Sheldon, Cornell.

*Championship Games.

Eastern Inter:Collegiate Football Association

OFFICERS.

. President.

NATHAN DURFEE, Tech.

Vice-President.

H. BLAIR, Dartmouth.

Secretary.

W. SCUDDER, Trinity. Treasurer.

H. A. SMITH, Amherst.

Record of Games.

TEAMS.	TECHNOLOGY.	Бактмочтн.	TRINITY.	AMHERST.	STEVENS.	Games Won.	Points Scored	Points Scored Against.
TECHNOLOGY	-	1	1	1	ľ	4	174	15
DARTMOUTH	0	1-	I	1	0	2	137	28
TRINITY .	0	О	Table 1	1	· I	2	48	146
Amherst .	0	0	0	-	1	1	22	126
STEVENS .	0	0	0	0	-	0	4	70
Games Lost.	0	1	2	3	3	-	-	-

: Championship Games:

DARTMOUTH .	×	4	STEVENS.		4	Hoboken, N. J.
TECHNOLOGY		24	DARTMOUT	н	15	
TRINITY		22	AMHERST		6	Hartford, Ct.
TECHNOLOGY		74	TRINITY		0	Boston, Mass.
AMHERST	1	16	STEVENS .		0	Amherst, Mass.
DARTMOUTH .		52	AMHERST		0	
TRINITY		26	STEVENS.		0	Hartford, Ct.
TECHNOLOGY		52	AMHERST		0	Amherst, Mass.
DARTMOUTH .		66	TRINITY		0	
TECHNOLOGY		24	STEVENS	,	0	
	TECHNOLOGY TRINITY TECHNOLOGY AMHERST DARTMOUTH . TRINITY TECHNOLOGY DARTMOUTH .	TECHNOLOGY . TRINITY TECHNOLOGY . AMHERST DARTMOUTH . TRINITY TECHNOLOGY . DARTMOUTH .	DARTMOUTH 4 TECHNOLOGY . 24 TRINITY 22 TECHNOLOGY . 74 AMHERST 16 DARTMOUTH 52 TRINITY 26 TECHNOLOGY . 52 DARTMOUTH 66 TECHNOLOGY . 24	TECHNOLOGY . 24 DARTMOUT TRINITY 22 AMHERST TECHNOLOGY . 74 TRINITY AMHERST 16 STEVENS . DARTMOUTH 52 AMHERST TRINITY 26 STEVENS . TECHNOLOGY . 52 AMHERST DARTMOUTH 66 TRINITY	TECHNOLOGY . 24 DARTMOUTH TRINITY 22 AMHERST . TECHNOLOGY . 74 TRINITY . AMHERST 16 STEVENS DARTMOUTH 52 AMHERST . TRINITY 26 STEVENS . TECHNOLOGY . 52 AMHERST . DARTMOUTH 66 TRINITY .	TECHNOLOGY . 24 DARTMOUTH 15 TRINITY 22 AMHERST . 6 TECHNOLOGY . 74 TRINITY . 0 AMHERST 16 STEVENS . 0 DARTMOUTH 52 AMHERST . 0 TRINITY 26 STEVENS . 0 TECHNOLOGY . 52 AMHERST . 0 DARTMOUTH 66 TRINITY . 0



: Football Association :

1887-88.

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Vice-Presidents.

O. F. Wadsworth, Jr., '89.

H. W. CLEMENT, '90.

Secretary and Treasurer. E. B. STEARNS, '90.

Executive Committee.

F. L. PIERCE, '89.

F. GOODHUE, Jr., '91.

E. L. HAMILTON, '90.

Captain.

W. M. DUANE, '89.

: '90 Sophomore Eleven:

Rushers.

DELANO. WAITE.

SHELDON. GLIDDEN. Hamilton (Centre). KENDRICKEN. ROBERTS.

Quarter-back. BEALS.

Halves.

STEARNS (Captain).

HALL.

Full-back. BATCHELDER.

Games Plaged.

CAMBRIDGE HIGH vs. '90 '91 vs. '90



: '91 Freshman Eleven :

Rushers.

GOODHUE (Captain). CHOATE. BRYDEN.

McKellops.

MITCHELL (Centre). WILLARD. BLANCHARD.

Quarter-back.

CUNNINGHAM.

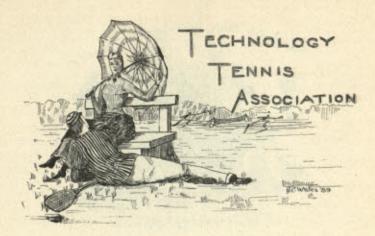
Halves.

GARRISON.

GERMER.

Full-back. HIGHLANDS.

Sames Played.



1887-88.

OFFICERS.

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Secretary. E. M. BEALS, '90.

Treasurer. N. Durfee, '89.

Executive Committee.

W. E. MOTT, '88.

J. L. BATCHELDER, '90. H. C. FORBES, '91.

Tournament.

DOUBLES.

FIRST ROUND.

Towne and Royce defeated Sturges and Watson . . . 6-3, 5-7, 6-4. MOTT and BEALS defeated SMITH and FORBES 3-6, 7-5, 8-6.

SECOND ROUND.

THURBER and WILLISTON defeated BRADLEY and FAVOR . . . 6-2, 6-0. MOTT and BEALS defeated TOWNE and ROYCE 6-2, 7-5.

FINAL ROUND.

MOTT and BEALS defeated THURBER and WILLISTON. 6-4, 3-6, 6-4, 6-2.



The Dressing Rooms Tennis Association

SINGLES, FIRST PLAGE.

PRELIMINARY ROUND.

Newton defeated Batchelder by default.
Mott defeated Sturges 6-3, 5-7, 6-1.
SMITH defeated WATSON
Sprague defeated Patterson by default.
Warren defeated Horn by default.
Shaw defeated Garfield 6-1, 6-1.
WILLISTON defeated MUHLENBERG by default.
FIRST ROUND.
BABBETT defeated Newton 6-0, 6-4.
MOTT defeated BALDWIN
SMITH defeated Bradley 5-7, 6-1, 6-3.
Warren defeated Sprague by default.
Forbes defeated Wood 6-0, 6-3.
THURBER defeated SHAW
Durfee defeated Towne
WILLISTON defeated ROBB 6-0, 6-3.
SECOND ROUND.
Mott defeated Вавветт
Smith defeated Warren 4-6, 6-3, 6-4.
Forbes defeated Thurber by default.
WILLISTON defeated Durfee 7-5, 5-7, 6-4.



THIRD ROUND.

MOTT defeated SMITH by default. WILLISTON defeated FORBES by default.

FINAL ROUND.

The match between Mott and Beals (the winner of last year's tournament) for the Championship of the Institute has been postponed until spring.

SINGLES, SEGOND PLAGE.

PRELIMINARY ROUND.

FIRST ROUND.

FINAL ROUND.

SMITH defeated BALDWIN 8-6, 6-3, 6-1.







OFFICERS.

President.

W. H. MERRILL, Jr., '89.

Vice-President.

M. ROLLINS, '89.

Secretary and Treasurer.

G. M. BASFORD, '89.

Road Officers.

Capt., E. S. HUTCHINS, '89.

1st Lieut., C. H. WARNER, '89.

2d Lieut., C. HAYDEN, '90.

Bugler, G. A. HILTON, '90.

Color-bearer, W. B. READ, '90.

Executive Committee.

G. B. LAUDER, '89.

H. D. BATES, '88.

C. HAYDEN, '90.

TECHNIQUE.

MEMBERS.

W. S. ALDRICH. G. M. BASFORD.

H. D. BATES.

W. BLANCHARD.

H. B. BURLEY.

S. CHILD.

S. H. Совв.

R. W. CONANT.

W. L. CREDEN.

J. L. DAMON, Jr. A. L. DAVIS.

J. C. D. DE BULLETT.

A. M. FORRISTALL.

H. FRENCH.

J. P. GILBERT.

B. W. GUPPY.

R. D. HALL.

G. A. HILTON.

H. M. HOBART.

F. W. Hobbs.

C. HAYDEN.

H. G. HODGKINS.

E. S. HUTCHINS.

L. E. JOHNSON.

P. J. KENDRICKEN.

G. B. LAUDER.

L. M. LATTA.

E. M. A. MACHADO.

E. P. MARSH.

W. H. MERRILL, Jr.

M. DU PONT.

H. H. POPE.

W. B. REED.

M. ROLLINS.

W. H. Roots.

S. L. STIX.

G. W. STONE.

E. K. TAYLOR.

Gt T. VOORHEES.

C. H. WARNER.

S. WHEELER.

F. P. WHITNEY.

L. C. WASON.

A. L. WILLISTON.

J. V. WRIGHT.



Canoe Club



OFFICERS.

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HOLLIS FRENCH, '89.

Vice-Commodore.

EDGAR BURRAGE, '90*

Steward.

E. S. Webster, '88.

Rapid Curser.

JAS. W. CARTWRIGHT, Jr., '89.

Chaplain.

REV. GEO. C. WALES, '89.

MEMBERS (STILL) AT LARGE.

E. S. Webster, '88. Hollis French, '89.
Jas. W. Cartwright, Jr., '89. Geo. C. Wales, '89.
E. Burrage, '90.

* Harvard.



UR record during the past year is one of which every student of the Institute may well feel proud. At our open winter games, not only did our Tug-of-War team pull Harvard's crack four, a feat which created the wildest excitement, but our representatives won the greater part of the other events, as well. The result of our out-door spring meeting was the breaking of four Institute records—the mile run by Mr. Roper, the 220 yards dash by Mr. Pierce, the standing broad jump by Mr. Wason, and the two-mile bicycle run by Mr. Warner. The Base-Ball Nine had a remarkably successful season, losing in all but two games. But last of all we have won the Eastern Inter-Collegiate Foot-ball championship, with a record of four games won and no games lost; and in these four games but one of the opposing teams, the Dartmouth, was able to score against us.

Tremendous enthusiasm has been felt in regard to the foot-ball games, and much hard work has been done by the Eleven, and especially by Captain Herrick, for the success of the team. The result is, that they have been beaten but three times during the entire season, and are by great odds the strongest team that ever represented the Institute. One thing is still greatly to be desired, and that is, the establishment of an annual series of inter-class foot-ball games. These should take place at the beginning of the Fall term, and from the players thus brought out, the 'Varsity Eleven could be selected much better than in the manner heretofore employed. No one who saw the enthusiasm and class emulation evoked by the recent Sophomore-Freshman game, can doubt as to the benefit which would result to the 'Varsity Eleven by reason of similar contests.

Less satisfactory was our Tennis tournament, for two reasons—the poor quality of the courts and the large number of forfeited games. The first reason made the playing much less certain and brilliant, although some fine exhibitions were made. The second took away much of the interest among the students as to the result of the games. No one cares to see a game, a set, or a tournament won by default; and it is unjust to those interested for a player to withdraw, except for the very strongest reasons. Certainly they should be much stronger than those which actuated some who entered in the recent tournament.

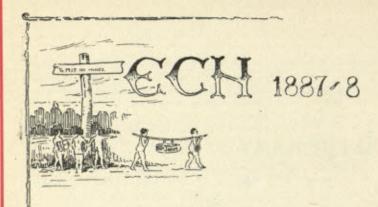
Our Base-Ball Nine opened the season with seemingly most brilliant prospects; but before long misfortune overtook them, and a profound gloom settled over base-ball for the season of 1887. The principal trouble seemed to be lack of enthusiasm and confidence, and a want of pitchers who were in a condition to pitch. It is now two seasons since we have won a ball game. We do well in other branches of athletics; can it be that we do not know how to play ball? Let us not admit it yet. We have many fine ball players in the "Tech.," a large number of whom are never seen upon the field. What we need is an enthusiasm like that which has characterized soot-ball this year, or some other stimulus which shall act on these men as well as the other players, and bring them upon the diamond. Two different ways of securing this result seem evident; either enter the team in one of the college leagues, as has been done in foot-ball, or arrange a series of inter-class games for some trophy, emblematic of the championship of the Institute. The first means seems hardly advisable at present, involving as it does, a considerable expense to a body of students among whom it is about as easy to support a ball team by subscription, as it is to build a gymnasium at Harvard or Yale. The second course is entirely practicable, and would arouse much more interest, and give much more satisfaction to the mass of our students than the exhibition games of the past two years. Each class should put in its strongest team, and contribute a certain amount toward the prize. Last year '89 attempted to arrange a ball game with '90; but the latter would not consent to a sufficiently early date, and so the game fell through. This year the series should be played during the month of April, so as to finish before the annual grind begins. Should this solution of the base-ball question be successful, we might then consider the advisability of entering a college league. Some change we certainly ought to make, for 'tis better to have no base-ball at all than the kind we have had for the last two years.

When we consider the immense disadvantages under which we labor, as compared with other colleges, the results of last year's athletics are a source of as much wonder as of gratification. Every time I go out to Harvard and see her magnificent gymnasium, ball-fields and tennis courts, her large body of students, spurred on by class rivalry as well as college pride, and the systematic training they undergo in preparation for each event, and then enviously compare our facilities with theirs, I no longer wonder that Harvard beats us at foot-ball or base-ball. It is more a source of wonder that we excel her in anything. But we should not be entirely discouraged by our want of facilities. It is all the more to our credit that we are able to do so much with so little. Let us therefore strive to keep up the march of improvement so auspiciously begun the last year, and live in hope that the Faculty or Corporation may soon be able to do their part toward our physical as well as our mental advancement.

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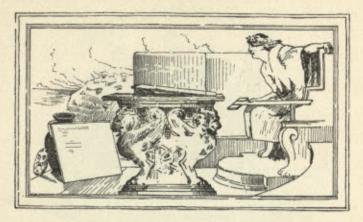
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At the first meeting of the Society, Nov. 13, 1886, the publication of an architectural periodical was suggested by Mr. O'Grady, then an instructor in the Institute. In accordance with that suggestion, the Society passed a resolution in May, 1887, to issue a paper in which to publish monthly the best drawings executed in the Architectural Department.

The Editor and Manager were chosen in October, 1887, and an advisory Board of Boston Architects responded with enthusiasm to the requests of the Editor,— to cooperate with him in the paper's management and the selection of subjects for publication.

The Society has also been encouraged and heartily indorsed in its endeavors by fifteen or twenty of the foremost architects in this country.



CONCERTS.

Milton, Jan. 29, 1887. Association Hall, Boston, March 18th. Hyde Park, April 4th.

AND AT

President's Reception. -Kidder Hall, Dec. 25, '86. Ladies' Evening, '87 Reception. -Kidder Hall, April 1st. Class Day .- Huntington Hall, May 30th. Alumni Meeting .- Young's Hotel, May 31st.

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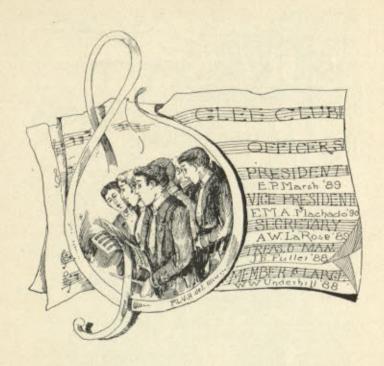
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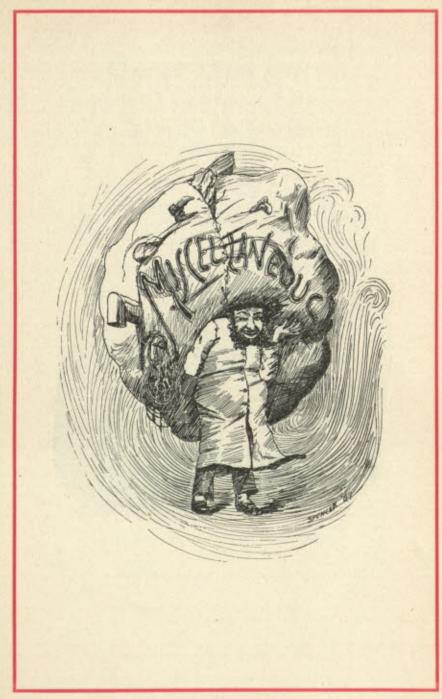
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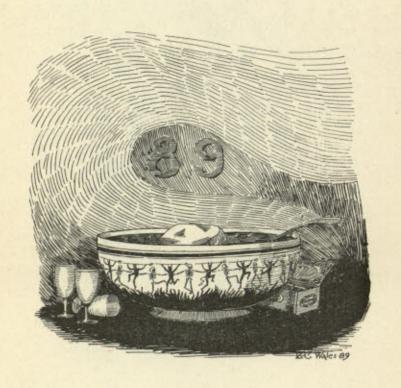
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TOAST LIST.

The Class J. P. B. Fiske. "All possibilities are in its hands."—Longfellow. The Faculty PAUL R. HAWKINS. "Most potent, grave, and reverend seigniors." The Society of '89 Franklin W. Hobbs. " Around the fireside, at their ease, There sat a group of friends; Each had his tale to tell, and each Was anxious to be pleased and please." -Tales of a Wayside Inn. The Tech George C. Wales. "True ease in writing comes from art, not chance."- Pope. FRANK L. PIERCE. "When Greeks joined Greeks, then was the tug-of-war."- Alexander. The Ladies Hollis French. "O woman! lovely woman! nature made thee To temper man; we had been brutes without you."- Venice Preserved. Athletics FRANK L. DAME. "Stiffen the sinews, summon up the blood."- Skakespeare.

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April 22, 1887.

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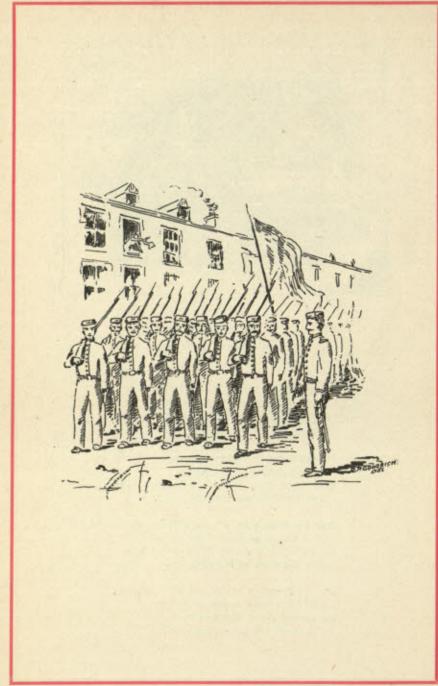
A Senior sat in his study one night
But his thoughts were far away;
For up before him, in memory's light,
Rose scenes of pleasure gay.

He could see as if before his eyes
All his actions of the past;
And before him, in order, his deeds arise—
For his thoughts are traveling fast.

And the friends he has made in his sojourn here; Will they pass away from his life? Ah no! such a change he does not fear, Nor the work of his after life.

But his thoughts are tinged with sorrow, For his college course is done; He cannot think of the morrow, For backward his feelings run.

W



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The Civils.



As an '89 Civil was meandering along a certain street in Boston, this sign attracted his attention, and reminded him that Course I. had been requested to inform Technique of her doings, and, as a result, here goes.

"The instruction in Civil Engineering is given by means of lectures and recitations, and by practice in the field and in the drawing-room." This is the manner in which our Catalogue begins a detailed description as to how our worthy institution endeavors to turn out, or rather flunk out, would-be C. E's. The article goes on to show that practical work is considered just as important as theoretical, and 'tis true we are treated to a full dose of each. The Catalogue

fails to fully describe our practical course, and it is the desire of your humble servant to enlighten the reader on that subject.

In the drawing-room, special pains are taken by each student to devise some villainous scheme by which he can obtain possession of his fellow-student's lunch, carefully secreted in the dark recess of a drawer. Some of the brighter men become so expert that they can entice a pear through a key-hole, as several of our number can testify. How about that, Sammy? However, these men are the exceptions,—those that hazard their reputations.

Literature is also a study of the drawing-room. Would that it lay in my power to do this subject its full justice! The noble sentiments and feelings expressed in one day in Room 24 N. B., would put many a literary star to shame. For additional information the reader is referred to Messrs. Apylfase, Flanilfut, and others of this remarkable circle.

In the field, railroading is at present absorbing our attention, and reconnaissance, preliminary, and most of the location have been made for a line connecting Wellesley Hills with Highlandville. The following explanations are for the benefit of those unfamiliar with the above terms.

The reconnaissance consists of a rough examination of the country to be traversed by the road. All the leading fruit-trees are located, and chestnut-trees, turnip patches, and dairies are also roughly tied in. In the more thickly-settled portions, factories and prominent houses, especially those of a chocolate color, are visited and inspected by certain chosen students of the class. This being an exceedingly important consideration,

TECHNIQUE.

owing to possible traffic, the whiskers prevail; and on an average, two out of every three of this party possess those appendages. The surroundings of Wellesley College are also well examined.

In the preliminary the road is more definitely located. The appletrees are tested, and those bearing good fruit are immediately stripped. Practice is also given in wood-chopping, and the farmers kindly add to our comfort by seeing that at our next visit we take the road rather than the wooded country, and thus save us the physical weakness resulting from a too heavy use of the axe. The farmers do not discriminate, but treat all alike, professors as well as students.

The work of location fixes the road definitely. As yet we have not had our full experience in this line, but know about enough of it to locate our road-bed near houses containing a very good representation of the gentler sex. How the dear, sweet girls do cheer us up after a hard day's work! But we had better survey new fields.

Geology forms no small part of our work. Lectures and field-work are hurled at us with a vengeance. It is, indeed, enjoyable to sit for an hour and have the various systems of crystallization described, and which to us appear like this.

The field-work is mere practice in wearing out sole-leather in the shortest space of time, frequent excursions being made for that purpose. These delightful trips are for the present laid aside, owing to pressing engagements elswhere.

The importance of Course I. is strikingly shown by the fact that we were of the chosen few invited to witness the late Westinghouse Airbrake experiments. While on this scene of glory Technology was ever in the lead. She was first on the grounds, first to give official results, and when the call for lunch came she led the mighty

army of hungry men, and occupied the first car after the dining-car. How is that for science? Unfortunately (?) we were the last to leave the scene.

And now, having given a rather rambling sketch of our department, we leave it for Time to show what will be the result of all this labor and study, trusting that the gray-bearded old gentleman will treat us as well in the future as he has done in the past.

MUDDY RIVER.

MUDDY RIVER! how we loved it,
As we toiled there day by day;
As the foliage fast was turning,
And the sky was dull and gray.

How the mud did cling upon us When our daily task was done! How the bees did light upon us When we couldn't turn and run!

And the plotting, yes,— the plotting,— Oh! 'twas awful lots of fun, When the angles came out badly, And gave lines we never run!

And then afterward, at Malden, When the days were cold and drear, And poor D-e-l-y froze his fingers, And poor R-s--l froze his ear.

And we measured all the houses, And then told most awful lies, When the crusty spinsters asked us What we did out there devise.

Next we tackled rough old Charlestown; And out there was lots of fun, When the kids upset our levels, And our work was all undone;

As we "checked" on city benches, And found out we were not right, But again must go and do it, And must work 'till late at night.

But this year all that is over,
And now railroad lines we run,
Where people chase us off their land:
L--d and S--a think that's fun.

We start out there bright and early, And we work 'till dark does come; Then, on the other afternoons, We all "plat" what we have done.

The Mechanicals.

Motto: "Dum vivimus, vivamus."

It is only with great physical pain that I indite these lines, as my hands are covered with burns and bruises; the former proceeding from having live coals placed in juxtaposition with my cuticle, and the latter from endeavoring to drive my forefinger, in lieu of a punch, through a piece of bar iron. This all happened at the blacksmith shop on Garrison

Street, where we are condemned to hard labor six hours a week. Those "doubters" who will not believe that the work is hard, have a cordial invitation to come around some day and sledge for Mr. Lambirth. We are really the sons of toil and labor in the Institute, and I am almost of the opinion that we do the work of our ancestors for some two or three generations back, also. What other Course can say that they are rushed so that it is necessary to wear woolens of "spinnweben" texture, in order that Mariotte's Law may be left unimpaired to our successors?



That name! What tender recollections it brings to mind! How we used to bathe ourselves in the reflection of the soft moonlight proceeding from the calcium light, and listen to sighs of relief which marked the escape of another minute into that vast, unfathomable abyss—but, hold! I wander from my subject. I am to deal with Course II. only.

Let us take up the different studies. There is, first of all, our favorite Stephenson's Link Motion. If you should hear some of our embryo Mechanicals talking, you would imagine that George Stephenson did not know what he was about when constructing it.

How dear to our hearts are the links of our childhood,
When fond recollection presents them to view!
Full forward, full backward, from template of whitewood,
In all the loved forms which our infancy knew:
The large varying angle, and the results which went with it,
Which one was right none ever could tell;
The slip of the block, and how we could cure it,
And many's the time we have wished it in — well!

(N. B.—The links of our manhood will be treated of in the next volume—if we are not "links." Note: "Links" is German for "left.")

Yes; many a night have I lain awake studying how the compression

TECHNIQUE.

point on my allowance might be changed, so as to give less back pressure with an equal angular advance. We have an advantage in this study in the possession of a live professor, who instills the rudiments of link motion by telling us how the engines in the laboratory work.

Then we have German. Those who have never studied this beautiful (?) language will probably fail to see the depths of some of my remarks. All such have my profoundest sympathy. How often I could reply in a heartfelt manner, "Schadet nichts," when informed that "Der Profesor ist nicht zu Hause."

I could go on enumerating all of our studies in a like manner. Differential Calculus, for instance. People unacquainted with its symbols might imagine that the sign of integration was the beginning of a G clef in music; but it is not as easy as that. Reader, that sign means a great deal more: on your interpretation of it and the unknowns following, depends your chance of getting through at the exams.

What dreams are brought up by applied mechanics! I have thought that if we had a knuckle-joint, and had securely fastened one end, and then placed some of the students here between the other end and a solid body, how much stress must be produced before the men would agree to take some interest in our social life. Mechanics would then be "applied" to some other useful purposes.

Besides the above-mentioned studies we have "Heat" and "Drawing," neither of which require much stress to be laid upon them, although there is considerable put upon us in order to keep up.

In speaking of the Course, I should not omit to say that it is the only one by whom ladies are received at all politely. The Civil uses bad language; the Chemist creates worse perfumes; the Biological will murder felines; the Architects are always praying to Vignole, and have no time; the Electricals shock you; while the Generals are never at home. I admit that all these evils are necessary ones, but they nevertheless are drawbacks. As one of the Class very aptly puts it, "Keinen Fliegen daran," when alluding to Course II. But my hand fails me, and I must stop.

Hoping that I have fully explained our ups and downs, we will close the entertainment with some choice selections, and would like you all to join in the chorus.

Our favorite poet: Burns.

Our favorite hymn: Gear.

Though not drawn with Fauncerian accuracy, it gets there just the same (A--r).

What did you get, Bixby? (Unison).

The Miners.

We consist of a select and energetic section, who, like the French Triumvirate, carry all before us.

"Tis but the enterprising and courageous few, who, not satisfied with a superficial knowledge of the boundless resources of nature with which other men are content, seek in the bowels of the earth those treasures which are essential for the comfort and adornment of man, and which push with mighty strides the advancement of civilization. Though our polished and intellectual bearing in public is accompanied by an attractive and irresistible charm which completely captivates the hearts of the "fair" maidens, in the Lab., our home and work-shop, we don the garb of toil.



Slip, slash, bang! Then it is that, as the shades of obscurity are about to be drawn from the glowing and resplendent face of knowledge, and as success is about to crown the untiring energy of a week's hard work, we are suddenly thrust back into realms of chaotic darkness, whence we only escape by patient and industrious toil.

We are often disappointed, but never discour-

aged; misfortune only lends stimulus to our ardor. Grind, grind, grind! Filter, wash, and precipitate! Such is the monotony of laboratory life, to be only now and then relieved by the presence of some fair visitor.

It has been decreed by "He the Mighty" that the Geological excursionists were too much favored by the presence of the members of Course III. But the genius of the "Miners" stands them in good stead.

As the Geologists, laden with pick and hammer, sally forth for the destruction of dikes, veins, and cider (of many "folded" action), the Lab. team goes out to fields of victory.

Twice have we met the foe and conquered; and all aspiring to honors on the diamond have fallen before our prowess.

A spirit of original investigation and of observation of probable sources of error, is strongly stimulated by the Faculty.

Thus encouraged we have been constantly on the lookout, and some of the discoveries made are valuable and startling in the extreme.

Any information desired about improved methods for the manipulation of alcohol lamps, may be obtained of - J. W. Literature is extremely fascinating, for it is there we learn, by a study of the lives of illustrious men, the most approved methods of combining dissipation with work, so as not to interfere with intellectual success.

On strolling through the "Back Bay" district one evening (not that we ever go out evenings, except, perchance, to attend some important business meetings), I noticed the lights of Parker Hill in the distance. What fond recollections these brought up of hours spent wandering through back-yards and turnip patches, to say nothing of clay-banks in the region of glacial erratics!

Who says surveying is not doubly a practical study?

I doubt if you could find better judges of fall apples (Profs. excepted) than the students of Course III.

Bericht über eine neue Methode für die Abwaschung des Niederschlagen (nachder Verfahrungsart von Lunge) in der Bestimmung des Schwefels in Schwefel-Eisen, wie es. . . . No, I thank you; we prefer the old laws in English.

The laws of the production and expansion of vapor have all been assimilated,—thanks to the efficiency of Papin's digester.

Those properties of heat, both mental and physical, which we can't explain, may be ascertained by consulting Ganot, Secs. 295-1006 inclusive.

The diamond drill is a great scheme; still, we all think drill on the diamond with a bat much better. Although a mechanical invention of considerable interest and great commercial importance, its operations are somewhat embarrassed by the frequent necessity of sending a man down to hunt up lost brilliants.

We have just completed an extensive tour of the gold and silver districts of the extreme West and the coal mines of Pennsylvania, and are happy to announce that we are once more at the dear old Inst., and may be found in our winter quarters, top floor, new building. Take the elevator.

The Architects.



AM a medium. I state this fact in order that certain phenomena which follow may be clear to the mind of the reader. Now, mediums "can call spirits from the vasty deep," or words to that effect; hence by the precepts of the sovereign of Rogers 15, I can, also. The above specimen of syllogism will show to the intelligent reader that I am also a student of the M. I. T.; and I will also add the information that my name is A. Narchitect, '89. With this introduction let me proceed.

One day in the early fall I was having an inter-

esting chat with the shade of Vignole, which, or who, I had called down from his celestial labor of pushing clouds. During a lull in the conversation he asked abruptly, "Art thou an architect?"

"H'm. Let me think," said I; "three flunks — none made up — yes, I'm a special architect at the M. I. T., a noble institution of learning."

"Yes," said Vignole, "I'm on to all that; but I should like to see your establishment."

"That is easily accomplished, my master," said I, "but -but -"

"But what, mortal? Speak."

"Well — I don't like to find fault, but you know slashed sleeves and tights went out of fashion several years ago; and if you are seen in the buildings with that rapier, you will be dragged off to the "Gym." for a Freshman cutting drill."

"How now," quoth he; "go to—" But I managed to silence him, and we compromised—he to wear my derby and to smoke a cigarette, which he did—swallowing all the smoke and eating half of the cigarette before being corrected. Then he reminded me that he never saw one before.

By this time we had entered Kidder, and were half way up the stairs. Strains from "Erminie" were gently wafted to our ears on an Industrial Laboratory atmosphere, and occasionally, "Tavern in the Town," "Evelina," etc. At these last Vignole turned to me and remarked, "Chestnuts."

"Yes," I answered; "this year's crop of Architects believe in flavor due to age."

We now entered the drawing-room, and Vignole's eyes brightened as he recognized copies of his treatise on the orders lying on the desks. He proceeded at once to the upper end of the room, to where a handsome, light-haired youth was working on a design for a Casino. The drawings seemed to please him very much, if one could judge from the constant smiles which flitted over his countenance, and he remarked that "that garden is the Devil's own stamping-ground," doubtless meaning something very complimentary. He then passed on, looking at all the drawings as he went, and paying compliments to all, especially to the "Dry Dock," which pleased him extremely.

A set of designs for fountains now drew his attention, and he paused to admire one.

"Odds-fish," quoth he, "but why in he—; that is, by my halidome, why do those damosels hug the Indian clubs?" But I rushed him on, not wishing to have words, and he stopped and looked at a fountain on which a dark youth with a festive nose was working.

The latter remarked, as he smelt Vignole's breath, "Hello, Theo! how are they all at the Elm,"—but turned and saw his mistake. "Oh! beg pardon—my mistake," he cried; "but wouldn't you like to play hat or match—" But as Vig. had begun to undo his rapier, our friend remembered that it was time to help hold up Rogers' steps, so he retired.

Just then a crash was heard in the library, and hastening in, we saw two students struggling on the floor in the midst of a lot of water which they had spilt. As Vignole saw them he became excited, and drawing his rapier dashed forward, yelling " Au sécour!" The two combatants immediately separated and fled, and with the help of some of the boys I disarmed Vignole, and put his rapier on my desk, knowing that it would soon disappear.*

Beyond asking why he was not allowed to kill the man on top, Vignole made no fuss, but contented himself by watching the first-year men man-

gle his orders, and cursing, from time to time.

Then his glance struck on a short, light man with a fierce mustache, and he approached him in order to ask him to fight; but on being greeted with a shout of "Rats" with a strong German accent, retired to think.

As he sat in the library, a tall, dark, and slightly stooping youth entered with cane and a cloth bag, which he laid on the table. At sight of him Vignole took a brace.

"Good-morrow, madam," said he, with much politeness.

"I think you are mistaken," replied the newcomer.

"Zounds - art thou not Mrs. Harding?" but as he finished he was left alone.

But not for long, for soon a gentleman with flowing whiskers of Venetian red approached and held converse as follows: "Ah, there, allikazoonkus skeezinkus, don't you want a full page ad. in '89's TECHNIQUE?

Only \$15, best chance you ever had; what name, please?" But Vignole had fled, and as I followed him I saw him engaged in conversation with one of the professors,- a tall man in a plug hat, and who wore a dark mustache. As I approached I heard my protégé say in excited tones, "Thy name, stranger?" "Prof. Shebang,"-was the reply. "Shebang, from France?" "The same." "My brother - my long-lost brother, come -" but I fainted, and heard no more; and when I returned to consciousness Vignole had vanished, and I have not been able to call him down from above since that memorable day.

*Everything put there does,



The Chemists.

Motto: "Sal atticum."

A Freshman approached me the other day and asked to be shown the wonders of the Chemical Course; so taking pity on him I gave him a clear account of what he would probably experience provided he took that course.

After showing him all the apparatus and Chemical re-agents, he asked me a few questions, among which were the following:—

"What makes the atmosphere so blue?"

"Young man," I answered, "your scientific education has been sadly neglected. That blue color is due to the presence of sulphurous vapors, produced by the molecular disintegration of that six-inch evaporating dish which J. P. G. has just dropped. See, even now he is soaking up his analysis with filter-paper, and will make due allowance for loss according to 'Hastings' Correction Tables."

"Yes, the Chemists are a very steady lot of students; in fact, instances of a Chemist getting off his balance are extremely rare. Only one case has been recorded up to the present date, and the tortures undergone by him were too horrible to relate.

"You see, we have young ladies up here, too. That row way over there is the co-ed row."

"Who is that fellow hanging around there?"

"Oh, that's Harry; 'he's all right.' That's the reward of merit in this department. The good workers have that as their especial privilege, while the delinquents are banished to the eternal solitudes of their own quarters. If you are not satisfied with the 'Tech.' young ladies, you can go into the first-year laboratory and see the B. U. Chemists. You can pick out 'Mother Hubbard' or the 'Goddess of Liberty,' whichever suits your taste. They have some rising Chemists among their number.

EXAMPLE.

Questioner - "State what you know of NO2."

Answer — "NO₂ is ammonia; it is a transparent, colorless gas, and is made by the action of sulphuric acid upon caustic potash. It has a very severe action upon the cuticle of the nasal organ when inhaled.

"Some of us have to work very hard here. Look at that fellow over there tearing his hair over some 'Codman Will Case' letters in the *Daily Globe*. And there is another, that rosy cheeked, spectacled youth; he is saying, 'Oh, what does the dickey bird say?" about this *blank* analysis.

"Oh! by the way; did you ever try the new Lab. drink? We call it alcohol tea. As its name denotes, it is a simple mixture of cold tea and alcohol. For further particulars apply to W--d--rd, '88. A small amount of nitro-glycerine rather improves it for some epicurean tastes."



"Do you ever play jokes up here?"

"Well, rather. Why, one day some new members of the K_2S set up a big beaker of lemonade, which the older members evaporated to dryness. They then filled it up again with citric acid lemonade, sprinkled some lemon-peel and strawberries in it, and then treated the rest of us. It was good, anyway, and the strawberries looked real inviting."

"Why, see! those men are fighting."

"Oh, no! That's only Tug and C--t--ight; they are only playing. Tug is a catcher, he is,—a 'Coonville catcher,' from way back.

"A young Virginian, too, was there, In sight of Norfolk born and bred. Some breath of its volcanic air Flows from the opening in his head."

"Come, let's remove ourselves from the immediate vicinity of that youthful manipulator of the wash-bottle, or he will *Drown* both of us in his vain attempts to extinguish the source of those evanescent scintillations you see ascending from the crock beneath the sink.

"That won't hurt us? Not a Tal-bot if he wets us we will have to dry ourselves on the stoop. That being the case, all our callers will be informed that we are Nort-on duty this afternoon. Thus, you observe, that an indiscriminate use of the wash-bottle is likely to de-Pope-ulate the laboratories."

I do not doubt but that that young student of Chemical Science already sees the error of his ways, And-rews the hour in which he was so indiscreet.



Oh! come where the cyanides softly flow,
And the carburets droop over the oxides below;
Where the rays of potassium lie white on the hill,
And the song of the silicate never is still.
Come sesqui oxide of ferricum,
Peroxide of soda and uranium.

When alcohols liquid's at thirty degrees,
And no chemical change can affect manganese;
Where the alkalies flourish, and acids are free,
My heart shall be constant, sweet science, to thee,
Yes, to thee, fiddle-dum-dee,
Zinc, borax, bismuth, and HPO₃.

Che Electricals.

Motto, Cheerfully we bear our Cross.

When, at the beginning of our second year, we surveyed the nine courses at the Institute, and confidently said that we would take Course VI., we little knew what electricity was. Of course not; and little know we about it now,—and that is just the trouble. If we only knew more, how many weary hours of anxiety and of toil might be saved.

A popular speaker of to-day has defined foolishness as the "stuff you



rub on fools"; so when we are asked what electricity is, we confidently reply, "It's the stuff you cram into electricals."

We began our course hopefully, three times a week took our little pills of Physic, each well sugared with "interesting and beautiful experiments," not neglecting the direction of the

Tabular View, "Take one hour before dinner."

These we washed down with solution of Mechanism in midnight oil. Extract of Calculus was regularly administered by the "little mathematical phenomenon" who often favored us with the pressing invitation, "See me," until many times we felt almost ready to dy ourselves. "Die Taube und die Biene" gently flitted around our easy-chair, and soothed us during many weary hours. Among other things that we took was "the case of an organ pipe," and were so trained that to this day we can recognize a "beat" every time we meet one. Yet with all this tender care some of us continued to fail daily, until finally, at the Annuals, the consulting doctors, after each noting our temperature and feeling our pulses for three hours, solemnly shook their heads, and said of some of us, "Beyond all possible hopes of recovery"; and so our numbers have grown smaller; for this is, without doubt, the most fatal of all the courses at the Institute. Many a youth, after a painful lingering on its couch, has passed away into the world of "lucrative employment."

We will not enlarge upon the subjects that lie in our pathway this year. To those who have been before, we have only need to say, "Remember"; to those who are to follow, we heartily extend our sympathy.

Waterperhorsepowerperhour, mean co-efficient of cubical expansion, angular advances and integration of anti-trigonometric differentials, form a sad medley in our minds, and we, some of us, begin to "have a shrewd suspicion" that our indicator cards at the Semies may show several irregularities.

The heat of our course is over. No more the festive Junior wends his way to Kidder, 22; the shades (of Regnault) are (with) drawn, and now we dread the Semies all forlorn. "Gentlemen, isn't that sweet?"

Yes! we miss you, dear old Regnault; the parting made a great void in our hearts, and happily, we may add, in our study-hours also. Taking all in all, we shall not look upon your like again. "I hope not," do we hear some one say?

All of us have seen "admission"; some have experienced an "early cut-off"; and those that remain eagerly look forward to "release." But when it has come, and we have separated, and each has made his great in vention or his "discovery which is destined to revolutionize science," and the name of '89 is sounded loudly throughout the land, shall we not all of us look back with pleasant remembrance upon the many good times and the many enjoyments that were mingled with all the hard work of our course in Electrical Engineering at the M. I. T.?

The Biologicals.



KNOW you think the Biological has a snap; but wherefore this idea? He is never seen basking in sunshine on the steps of Rogers, or aimlessly meandering through her scientific halls. No free afternoons for tennis or foot-ball fall to his dreary lot; no visiting mills to have a lark; no surveying in those glorious, breezy days of February and March. Alas, poor thing! the poor Biological toils unceasingly among odors, that surpass, and stains innumerable. As the shades of evening approach, the spooks of deceased canines, felines, Awaiting further

and other amphibians steal out from their hiding places, and torment with threatening gestures and hideous

grimaces. The spirit of corn comes to his rescue, and saves for the time the overworked brain that threatens to collapse. The Biological lives in constant fear of quizzes and exams.; and when these terrifying "currents are shut off, there is a rebound



at both poles,-a temporary increase of irritability in the Anelectrotonic, and a temporary decrease in the Katelectrotonic regions" of the nervous system. The trusty friend and counsellor of the Biologist is his microscope,-a very brassy fellow, and much given to exaggeration. thirst for knowledge and an S. B., the student in VII. is constrained to put to death poor dear cats and rabbits at the risk of producing disastrous nervous impulses in the thalamencephalon of fair visitors. All day long must be chew paraffine, that he may determine the ptyaline in saliva, or give exercise to his salivary glands. The spirit of investigation leads the Biological to incite and witness encounters between trained bands of alligators, which have journeyed up from Florida by one of the spokes, to winter in Boston, or to keep count of how many froglets a big toad could swallow for a record. To the trained ear of the Biological, the so-styled caterwauling of pussies and croaking of frogs is music divine, comparable only to the music of the spheres, - so unintelligible to the vast majority. And now, how can you doubt the hard lot of the Biological? Convinced, render him your sympathy and your bump of laughter, thereby enabling him to ward off brain trouble, and in time to become an honored graduate.

The Physicists.

Yes, we are a hard working lot, we Physicists. Whatever we accomplish is not through our innate capabilities, but by our indefatigable,

though blindly misdirected efforts. Our life is one continuous, soul-narrowing grind. Toil is our password, and slavery our goal.

It is with a certain feeling of joy not unmixed with personal admiration, that I reflect that I hold no thoughts other than those required for class-room usage; yet this very thought disturbs me, for it is so far from my usual train of complicated reasoning, and brings up such a long line of attendant thoughts hitherto successfully banished, that I fear me I must still pursue it,—so here goes, to get the agony over.

I am a Junior,—at least so I've been told; anybow, this is my third year at the Tech., and thus far have I held myself well aloof from the subscription fiend, the organizers of Class affairs, and the untiring agents of Technology publications; for be it known to our credit, for the enlightening of the public, and eternal confounding of the Faculty, that we never allow ourselves to indulge in such frivolities as the perusal of the work of our

fellow-students not of our select few.



I am charged with egotism: the charge is true, and I glory in its truth. As high as the sun is above the west, so far are my ways above those of my fellows; and here endeth this, my first and last attempt to throw light on the ways that are dark and the thoughts that are deep, without the aid of our old friend the oxy-hydrogen.

The Generals.

MY DEAR R-1:-

I will now try to answer your question as to how Course IX. has progressed since you left us.

Well, after the smoke had cleared from the battle with Physics' last "Annuals," and we had carried off our dead (F. F.) and wounded (F.), it was found that we had three "Regulars" and two "Specials" left; but as the Faculty has deemed it necessary to add several more studies to our already overburdened course, it is very doubtful as to how many of us will get the opportunity to participate in the graduating exercises of '89. The course is becoming very popular, however, as is shown by the large increase of men that entered it this year over last. There is no doubt but what many more would have taken this course had it been no harder than the other courses. I know that you will be glad to hear that no one now thinks of entering Course IX. for the special purpose of being able to spend his evenings back of the footlights, or at Ch-s-e's and the Old E.

TECHNIQUE.

It is no longer considered a snap. We have become a grave body of students, only taking Sunday evenings from our studies, in order to accompany our best girls to church.

I must not omit telling you that we still have our annual dinners at the Waquoit, and a few weeks ago the "'89" Course IX. men again were seated to a sumptuous banquet. All but three or four of the fellows took part in the festivities of the evening, and we let "the tears (champagne) flow free."

We have had several geological excursions this autumn. I do not yet understand why so many of the "Civils" who accompanied us made such numerous deviations to certain grocery stores along the route. We made one excursion to examine the Roxbury Dike (not "Dike-y Bird") which must have been a colossal conglomerate concaternation, carefully and critically condensed, crystallized and centralized by nature for our special benefit. We can tell you now all about Vesuvius coming the Great Ash Act on Pompeii, and many other natural phenomena.

I would inclose you a group which we had taken, so you might judge of us for yourself, but some one incautiously showed one of the proofs to some of the Faculty, and they would not allow us to have the pictures finished up. They thought we looked so tired and overworked that it would not be a good advertisement for the Tech. if we were to exhibit the picture of the group.

I have already trespassed too long upon your time, and as I have Zoölogy, Paleontology, Geology, Financial History, and Calculus to prepare for to-morrow, I will bid you lebenwohl.

Very sincerely.



- "THE Floater"- H-rr-ngt-n, '89.
- " HULLO Rocks "- D -- tz, Be-m-n.
- "SMALL chrystals were deposated "- '91.

FROM Webster? \$500 reward!!! - B-rtl-tt, '89.

- "ME and brother Joe "- M-rr-ll, '89.
- "A NEW Co-ed? WHERE?"- The Floater.
- "WHAT the Doctor says"- Heat and Vent.
- "I'm going home to dynamo" -- Song for Electricals.
- "In what room does English recite?"- A. Fr-sh.
- "How long, O Lord, how long!"-G-nn-tt, '89.
- "How much do you charge for checking things?"- At the Cage.
- "Dewey, Dewey, Dewey, da-a-a"- Marie.
- "CUSTARD pie for one, with enough for seven"-W-ll-st-n, '89.
- "A SCHOLAR he with spectacles on nose"- H-bbs, '89.
- "MARGARET'S HUSBAND; or how we escaped horse-whipping"-D-rf-- and B-rd-n, '89.
 - "An aged Elm gives shelter to thy form."- P-ets-h, '89.
 - "DID you hear how Tamkin burnt his hand, Biggie?"
 - "HANDLES his pen like a master"- A. S. C. W-rr-n, '88.
- "Did you ever see that done, Mr. Crane?" "No sir." "Neither did I."—T. M.
 - "A maiden's voice, a virgin's ways, Sing, sing, my muse, sing Harding's praise."

TECHNIQUE.

"IF I were as handsome as you are — " Fragment overheard on the street. How about that, French?

Prof. Runkle.—" What is the value of a quarter π ?" Voice from the rear, "Five cents."

Ba-l-y, '89 .- " What time is it?"

Fr-nch, '89 .- " 5.05."

Ba-l-y .- " Of or after?"

Fr-nch .- " After."

"R-ss-L, R-ss-L, come back; where you going? How about that Dick?"

WE hear that W. L. Harris is contemplating a trip to Ireland.

Just after election.—" Who is this Scatterings who gets votes at every election?"—C-n-nt.

C-s-'90.— De désespoir ouvrit la bouche de son four et s'y précipita. (In despair he opened his mouth and jumped in it.)

"THE butt end of a cigar going south."-B-g-l-w.

"Well, I'll give you a tip,-he's a cravat."- "Bulk."

SOPHOMORE says that the Freshman parade-line reminds him of a parabola,—always approaching a straight line, but never getting there.

To Student syphoning.—" Which are you running it into?"—W-ls-n, '89.

S-nd-r-ck-r - " I don't understand."

E. V. F. - "Why, don't you see? And then I get the same answer."

SCENE IN RAILWAY TRAIN.

Nervous old lady pointing down the aisle .- "Be that conductor Wood?"

Electrical absorbed in Ganot .- "No, madame; wood is a non-conductor."

"Have you seen my brother Hollis? He went out to Harvard last night, and hasn't got back yet." How bout that, Maj.?

ANECDOTE OF LINCOLN.

It is related that a certain Soph., desirous of a pugilistic reputation, invited the afore-named sunny-haired, collarless youth to a trial of skill at the Gym., one night.

The next day the Soph reported to his friends that he had been indulging in foot-ball, and hence his skinned nose. As he don't play football, question Sh-ld-n for further information.



. Just from the Press :

"Encyclopedia of Universal Knowledge." Edited by F. H. Cilley, '89. Thirty-four volumes. Published by D. Appleton & Co. No one acquainted with the editor can deny that the choice of the publishers for the editorship of the grand work which is to take the place of their American Cyclopedia, was peculiarly fortunate. In this work Mr. Cilley finds ample scope in which to display his immense erudition, while his dissertations and opinions on all subjects are given with the same readiness and directness that characterize his conversation. This work should form a part of every student's library.

We are in receipt of a treatise on the "Solar Compass," by that industrious and prolific writer, Frank H. Cilley. This is intended as a guide to those about to take Course One, or who have an idea of becoming Government surveyors, although every scientific man, particularly astronomers, will be interested in its statements. In a short, concise way he demonstrates that at any time of day, and with any declination and latitude, there are four distinct positions of instrument which will give the meridian.

It is issued in pamphlet form, profusely illustrated with diagrams and wood cuts, and contains his corrected nautical almanac. It is intended as an appendix to his Encyclopedia.

"Foot-ball as it should be Played." G. A. Whitmore, Assistant Manager M. I. T. Foot-Ball Team.

The author's wide experience, both as a player and manager, is an ample guarantee of the great value of his work. Although the bulk of this volume has been given in Mr. Whitmore's lectures and familiar talks

TECHNIQUE.

on the subject, this is the first time that the author's ideas have been published, and thus brought within reach of the public. The advent of this work bids fair to almost revolutionize the present game of foot-ball.

"An Elementary Treatise on Practical Dentistry." By F. L. Dame, '89, member of the 'Varsity Eleven. This little book treats, in a vivid manner, of the popular methods of extracting teeth, and also contains a detailed account of the author's own method, entitled "Two at a Lick." The work is illustrated throughout by numerous cuts and bruises.

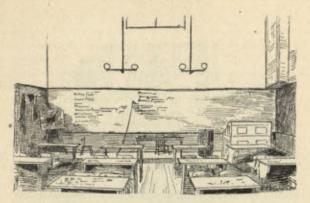
Messrs. Ladd. '88, and Vorce, '88, add a valuable appendix on "Instantaneous Death." This book is neatly bound in black and blue (arnica binding), and is worthy of a place in any morgue. It may be obtained at the Westgoal on the Foot-ball Field, between 4 and 3 P. M., Saturdays.

It has rarely been our lot to examine such a complete and exhaustive treatise on any subject as Mr. P. J. Kendricken's, '89, work on " The Art of Batting." This book is not, as one might suppose, a dry formularistic collection, but is replete with interest for all. The chapters on "Treating a Crowd: How, When, and Where to do it," and "When to Stop," should be read by all. The many diagrams of batter's positions, fielding, and coming home, which the book contains, add value to the work.

Mr. D. P. Goodrich, '89, has invented a piece of mechanism which will undoubtedly be of great value to all M. I. T. students. We quote from the pamphlet accompanying the invention:—

"The machine consists of a double involute cam working on a cross-head with a 16" stroke. There is also a dead-beat escapement (inventor's own), which regulates the motion of the micrometer screw, and which registers the reading on the face. By pulling a string and asking the question, 'What do we have next hour?' the correct recitation is registered on the dial, together with the time already elapsed since it begun." This machine may be seen in working order in the Architectural Department, by applying to Mr. Goodrich.

We are in possession of a couple of pamphlets issued under the auspices of Hammer and Tongs Club, which deserve mention as much for the originality of their contents as for their literary merit. The books are: "Street Music: Its Uses and Abuses." By Messrs. Cartwright, '89, and Bliss, '89. This work contains full directions for drawing a crowd, and dispersing the same, by means of the hat, as well as several pieces of music, among which may be noticed, "Only a Pansy Blossom" and "Sweet Violets." The other pamphlet is on "Track Athletics, and their Adaptability to Boylston Street." By Messrs. Wales, '89, and Batchelder, '90. This is a very complete work, and also contains President Walker's March, as played on fife and drum by the last-named gentlemen.



"DER PROFESSOR IST NICHT ZU HAUSE." "SCHADET NICHTS."

: Dutch Grinds :

"WILL Mr. Ploomer recite?"-C. P. O.

"Just what it costs to print."-The same.

H-TCH-NS, '89 .- " Lied von der Glocke "-Song of the clock.

"Hast du ein clean Undershirt angehabt haben?"-D-ttr-ch.

G-LB-RT, '89.—" Sie fragte mich, wer ich sei." — She asked to me, where are you?

"DIE Stadtmusikanten." — C-rtwr-ght, Bl-ss, and W-l-s, '89, and B-tch-ld-r, '90.

Prof. D-d to German Class.—"There seems to be a string of wickedness running 'round this room, and Mr. J-hn-s-n seems to be on the end of it."

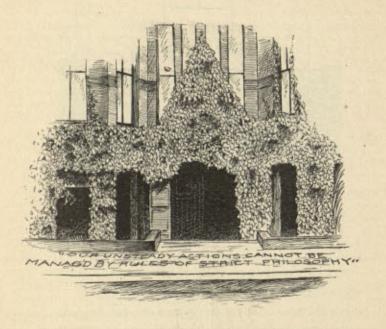
GA-N-s, '89,-" Da setzte er sich nieder und wollte ein wenig ruhen." Then he set himself to know a little something. Prof. D-pp-ld, "Ah, ah,-yes. If you would only do so."

Prof. D-pp-ld. — "The next sentence is 'Nein du Narr, rief der Matrose." "Mr. W-dsw-rth, can you translate that?" W-dsw-rth, '89,—"No, you fool."—Tumultuous applause.

Prof. D-d to student. - "Please read in German, Mr. J-hns-n."
Mr. J-hns-n. - Dam-it (pause). Dam-it (longer pause).

Prof. D-d. - That's right, Mr. J-hns-n, damit; now please read on."

"Der Esel schrie, der Hund bellte, der Hahn krähte.—" "The easel cried, the hound bellowed, and the hen crowed."—Translation by "Davy."



Society for Mental and Moral Improvement.

Беарquarters-"бне Ghapel."

COMMITTEE OF INVESTIGATION.

P. J. K-NDR-CK-N.

A. W. LAR-s-.

T. W. P-ETS-H.

COMMITTEE STILL INVESTIGATING.



Raw Technology, '91.



: Quotations :

- "MERRY jest." " Jud."
- "Just for greens." Holly.
- "I'm a poor fool." -P-ndl-t-n, '89.
- "God comfort thy capacity."-R-b-rts, '88.
- "LORD, how wise I am!" C-ll-y, '89.
- "THE very pink of perfection."-B-nn-y, '88.
- "THE march of the human mind is slow."-L-ud-r, '89.
- "What a spendthrift he is of his tongue." -Sw-tl-nd, '88.
- "THE sounding jargon of the schools." Wh--l-ck.
- "I'm monarch of all I survey."- " The Bird"
- "THE cold neutrality of an impartial judge." Fim, the Penman.
- "Is base in kind, and born to be a slave." "Fresh."
- "LORD of himself, that heritage of woe." -Be-Is, '90.
- "Just less than Jove, but much above a king," $-De\ B$,
- "V. DE B.? No; not the same."-De B-ll-t, '90.
- "I'LL be with you in the squeezing of a lemon." "Our Joe."
- "Measures, not men, have always been my mark." Course I.
- "Our sympathy is cold to the relation of distant misery."-Faculty.
- "Has shed his nurse, and goes to bed without help." -H-yd-n, '90.
- "This is the youth whose scientific pate Class honors, medals, fellowships await."—L-t-t, 90, née '89.

- "Music hath charms to soothe the savage, Split a rock, or bust a cabbage." — Orchestra.
- "His corn and cattle were his only care,
 And his supreme delight a country fair."—'Taters, '89.
- "And still they gazed, and still the wonder grew
 That one small head could carry all he knew." L-nz-.
- "Whatever sceptic could inquire for, For every why, he had a wherefore." — Cr-sby.
- "Tis said that white swans sing before they die;
 "Twere no bad thing did certain persons die before they sing."

 —Glee Glub.
- "When I see cold men, of intellect proud,
 My solitude is sad; I'm lonely in the crowd."—E. V. F.
- "Costly thy habit as thy purse can buy,
 But not expressed in fancy, or with taste unblest;
 For the apparel oft proclaims the man."—B-nn-y, '88.
- "EARLY and provident fear is the mother of safety." Dedicated to that portion of '90 which ascended the grand stand to watch the rush.
- "And then they all laughed and shouted, and swore the beers were on Daniel."—H-de, '89-'90.
 - "Ir was a lodge of ample size,
 But strange of structure and device;
 Of such materials as around,
 The workman's hand had readiest found."—Gymnasium.
 - "Wherever God erects a house of prayer,
 The Devil always builds a CHAPEL there;
 And 'twill be found upon examination,
 The latter has the larger congregation."—Y. M. C. A.
 - "Windows and doors in nameless sculpture drest, With order, symmetry, or taste unblest; Forms like some bedlam statuary's dream, The crazed creation of misguided whim."—Course IV.
 - "But be not long, for in the tedious hours'
 Exquisite interval, I'm on the rack;
 For, sure, the greatest evil man can know,
 Bears no proportion to the dread suspense."—Exam. Marks.
 - "THEN might you see, amid the desperate fray,
 Features disfigured, noses torn away,
 Hands where the gore of mangled eyes yet reek,
 And jawbone starting through some cloven cheek."

-Foot-ball Game, '90 vs. '91.

: tech's triumphal March:



It was a dark night in early November when our special correspondent donned his heavy topcoat and his goloshes, and threading his way through mud and other obstacles, directed his steps toward Exeter Street. As he approached, sounds of revelry fell upon his ears; the sharp tootle of the fish-horn mingled with the deeper bass of the trombone, and the clear note of the bugle sounded in sharp contrast to the deep grumbling of the bass-drum. Whence these sounds? Our correspondent passed rapidly along the street until nearly opposite St. James Avenue; here he paused, and stooping, seemed to search for something on the ground. At last a glad expression of relief escaped his lips, as he grasped an iron ring, and by it lifted a trap-door which creaked on its rusty hinges. As the door opened it disclosed a flight of steps, steep and seemingly endless; but "his Nibs" stepped confidently down, and soon entered a long, low hall, filled with conspirators in flowing white robes, white plugs, and in the hand of each a brightly flaming torch. The arch-conspirators carried



transparencies, bearing the legends, "Eastern Inter-Collegiate League Foot-Ball Championship," "Tech. 74. Trinity o," "Tech. 54. Amherst o," "Tech. 24. Stevens o," "Tech 24. Dartmouth 15." It was from this subterranean chamber that those sounds of horror came; and these conspirators were students of the M. I. T. preparing to celebrate the winning of the foot-ball championship by their team.

After a short time spent in preparation, the order to proceed was given, and the procession filed from the building and took possession of the street. Here in about five minutes the formation was completed; the order to march was given, and the immense column was in motion.

THE ORDER.

SQUAD OF MOUNTED POLICE.
SQUAD OF FOOT POLICE.

Drum Corps.
40 pieces, commanded by Drum-Major Merrill.

THE FISKE LIGHT BATTERY.

CHIEF MARSHAL FERGUSON.

CLASS OF EIGHTY-EIGHT. 500 men in line, under Major Claffin.

TALLY-Ho.
With Team on Top and "beats" inside.

CLASS OF EIGHTY-NINE. 1,000 men in line under Major French.

DIE BREMER STADTMUSIKANTEN. 80 pieces.

CLASS OF NINETY. 1,500 men in line, under Major Clement.

CLASS OF NINETY-ONE.

POLICE.

RABBLE.

ENTHUSIASTIC POPULACE.



The procession moved off with jaunty step to the Dutch equivalent for "The Girl I left behind Me," from the "Musikanten."

The populace cheered themselves hoarse at the sight of the noble crowd on top of the coach, and the hoarse roar of their cheering was ever and anon broken bythe sharp, quick cadence of Institute or Class cheers.

And now most glorious sight! The coach became a mass of living fire, as its occupants sent up Roman candles in quick succession. At this weird phenomenon the crowd was awed to silence,—silence only broken by smothered exclamations of surprise, distrust, or anguish as red-hot sparks went down some luckless man's neck.

On Beacon Street "the horses took fright at a Jersey man, and straightway ran away;" but the sturdy driver, by his indomitable skill and courage, soon quieted them, and once again all was in order. The line of march was thronged with fair damsels, who waved their handkerchiefs enthusiastically until some one grabbed them, when they retired to get more.



Ever and anon, with a roar and rattle of hoofs, the "Fiske Light Artillery" would pass the column, going to the front; a flash, a roar, dense smoke, cheers, and the column would advance to the support of the artillery.

At the Institute buildings a halt was called; silence for a moment, and then the din of battle rang out wildly,—the sharp rattle of the Roman candles, the hoarse thunder of the heavy ordnance, the cries of the wounded, the cheering of the victors, the curses of the horse-car drivers! Who that witnessed that scene will ever forget it?

But the end is not yet; one more scene remains to be enacted in this bloody drama. "Onward!" is the cry; and then, with a soul-rending shrick, the cohorts again get under way; for a time circling around the only battle-ground upon which the chosen of them ever met defeat, then leaving hastily for the scenes of more frequent conquests. Once more Columbus makes a discovery, but this time the Indians ave-nue way of showing their appreciation. Ovation after ovation is tendered the victors, until, from sheer embarrassment, refuge is taken on the College Campus,* where a feast of warmth and eloquence awaits the tired mob, only needing the fire of enthusiasm and some alcoholic fumes to kindle it into dazzling radiance and brilliancy. Our valiant marshal and the "tired" man from South Boston supply these deficiencies, and the ball begins. The fire, the

*Union Grounds, hired for the occasion.



music, the speeches, the applause, the—; but my eyes grow dim with memories of that night. Suffice it to say, that "Our Joe" recognized "his Jaglets" Pluto, in disguise, taking notes for the management of the lower regions, and heard him murmuring softly, "What fools these mortals be, and yet, withal, so wise—."

And then the ranks, now depleted, anon replenished, hasten toward the sacred tree, the altar whereat so many have offered up their hard-earned cash to hear the absolving cry of "Eins" make the welkin ring. To-night the welkin not only rings, but fairly whistles; "Eins" becomes "Zehn," until the clarion note sounds above the howling waste, "Eleven o'clock; no more!"

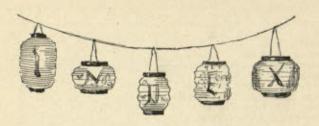
Once more they move, but whither go they now—to their homes or their recitations? Let us draw the veil of charity over the rest; they disappear, they vanish as it were — and then?



SONNET TO THE JESTER ON THE COVER.

The Lester on the cover gravely stirs,
And drops his magic powder in the pot;
The caldron bubbles up, the fire burns hot,
The smoke doth rise—and all the view obscures;
But in the distance—see! a form divine,
With bright effulgence, glistens through the cloud—
"Technique," a magic word,—a form so proud!
Technique, the masterpiece of Eighty-Nine.
But still the jester stirs with mien sedate.
No wonder; his the serious task to make,
The "grindee" in good part his jest to take.
But still, to give his works a serious trait,
Stir on! stir on! O Jester done in blue,
A half-a-dollar'll be the price for you.





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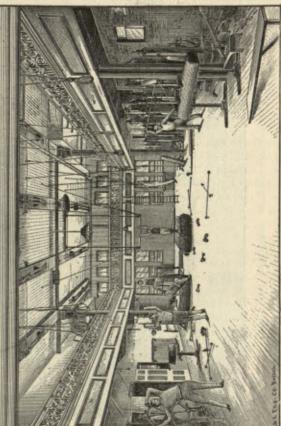
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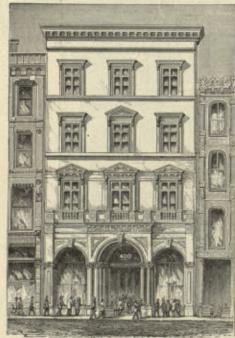
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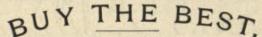
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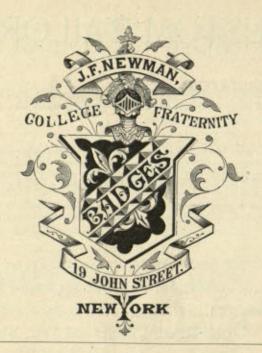
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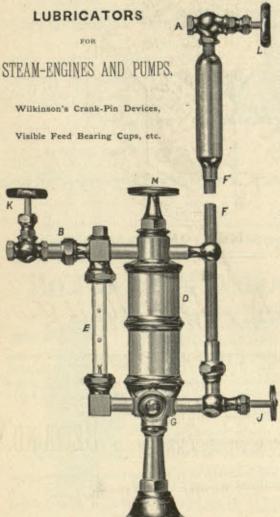
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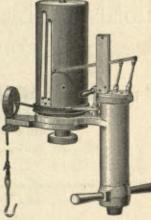
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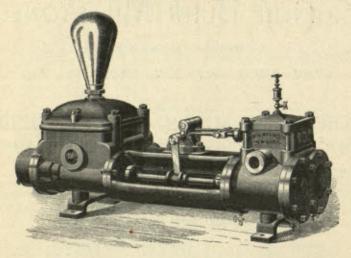
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