

THE TECH

Published daily, except Sunday, during the college year by students at the Massachusetts Institute of Technology.

Entered as second-class matter, Sept. 29, 1910, at the post office at Boston, Mass., under the Act of Congress of March 3, 1879.

R. H. Rainger 1911 Gen. Mgr.

News Board.

A. L. Fabens 1910 Editor-in-Chief
G. M. Keith 1912 Managing Editor
L. Rosenstein 1910 Inst. Editor
O. B. Denison 1911 Societies Editor
L. G. Fitzherbert 1911 Athletic Editor
D. J. McGrath 1912 Gen'l News Editor

Business Board.

D. N. Frazier 1911 Business Mgr.
C. Fallon 1912 Adv. Manager
A. W. Yearance 1911 Circulation Mgr.

Associate Editors.

P. M. Tyler 1912 Athletics
R. S. Rankin 1913 Athletics
T. E. Senior 1913 Institute
S. R. Mackellar 1912 General
A. W. Kenney 1913 Files

News Staff.

C. D. Swain 1913 P. L. Flansburg 1912
S. E. Bates 1911 E. L. Macdonald 1913
R. E. Wilson 1912 E. W. Tarr 1912
J. V. Macdonough 1912 E. W. Taft 1913

Business Staff.

H. W. Hall 1912. J. B. Nealey 1912.

Office 42 Trinity Place.
Telephone, Back Bay 2184.

All communications should be addressed to the proper departments.

Subscriptions \$1.50 per year in advance. Single copies 1 cent.

Subscriptions within the Boston Postal District and outside of the United States must be accompanied by postage at the rate of one cent a copy.

Printed by Puritan Linotype, Boston.

BOSTON, MASS., JUNE 6, 1910.

COMMENCEMENT REUNION.

(Continued from page 89.)

11. (a) "Take Me Back to Tech".
(with Glee Club),
I. W. Litchfield, '85
(b) "The Cardinal and the Gray"
(with Glee Club),
Bryant and Moody, '07
12. American Fantasy, Herbert

The feature of the evening will be the reception of the Class of 1910 into the Alumni body. The concert will begin at eight, and immediately after the overture the graduating class will march into the hall. At the center of the hall they will be met by the president of the Alumni Association, who will greet the Class President, and present him with the vertically striped Alumni banner in exchange for the horizontally striped undergraduate one. A novel surprise of welcome has been planned by the committee in charge.

After this reception, the seniors will continue their march to the tables reserved for them at the front of the hall, and fun, good fellowship and Technology spirit will reign supreme.

The committee in charge of the Pops (G. B. Glidden, '93, chairman, H. S. Mork, '99, and M. R. Scharff, '09), assisted by nine aides, will be on hand to see that everything goes through without a hitch. They are especially anxious to prevent all cheering during the musical numbers and to have every one join heartily in the Tech songs, and in the cheers between the numbers; they hope to have the co-operation of all in making this thirteenth annual Tech Night in every way a credit to the name of Technology.

SENIOR DINNER.

(Continued from page 89.)

and tried in every possible way to work off the surplus joy coming from the knowledge of four or more years of hard work successfully completed.

The telegraph offices were crowded with men with flushed and happy faces, hoarse voices, and dilapidated head gear, eager to spread the joyful news. The men then went their ways and celebrated according to their desires.

GRADUATES

(Continued from page 89.)

Albert Willard Andrews, A.B., Canandaigua, N. Y. A Preliminary Investigation to Determine the Hydraulic Power Available on the Green River, at Williamstown, Massachusetts. (With R. P. Walker.)

William Clark Arkell (Canajoharie, N. Y. A Study of the Methods of Constructing Foundations for High Office Buildings.

Kenneth Potter Armstrong, Somerville. A Study of the Economic Principles Involved in the Relocating an Interurban Railway.

John Brazer Babcock, 3d, Dorchester. An Investigation of the Strength of Yellow Pine Ties for use on Railroad Bridges. (With A. B. Henderson.)

Albert John Beach, Somerville. A Design for a Bridge over the Charles River near the Harvard Stadium. (With W. K. Brownell.)

Van Zandt Beall, B.S., Fort Worth, Texas. A Study of the Effect of Loam on Cement Mortar and Concrete. (With F. F. Bell.)

Carroll Roland Benton, Manchester, N. H. A Study for the Location of an Outfall for the Sewerage System of Gloucester, Massachusetts.

Walter Keith Brownell, Brookline. A Design for a Bridge over the Charles River near the Harvard Stadium. (With A. J. Beach.)

Eugene Olaf Christiansen, Jamaica Plain. A Design for a Highway Crossing over the Neponset River, at Neponset, Massachusetts. (With A. Allen.)

Samson Kalmon Cohen, Roxbury. A Design for a Highway Bridge.

Alton Mace Cook, Hyannis. A Study of Methods of Waterproofing Engineering Structure.

Michael Abram Coplan, Roxbury. A Design for a Moving Sidewalk from Park Street to the South Station, Boston.

Harold Neff Cummings, A.B., Auburn, Me. A Comparison of the Strength of Coke-Breeze Concrete and Broken-stone Concrete. (With G. L. Mylechreest.)

John Christopher Diehl, B.S., New Oxford, Pa. A Study of the Economy of Reducing the Helper-Grade at Horn on the Renové Division of the Pennsylvania Railroad.

Herbert Schumann Dornberger, A.B., Pittsburgh, Pa. A Design for a Spandrel-Braced Three-Hinged Arch Bridge.

John Moxey Fitzwater, Penn Yan, N. Y. A Study of the Possibilities of Water-Power Development near Wayne, New York. (With P. D. Terry.)

Arthur John Foote, Pittsfield. A Design for a Storage Reservoir on the Deerfield River. (With R. M. Gillis.)

Ridgway Mills Gillis, A.B., Walla Walla, Wash. A Design for a Storage Reservation on the Deerfield River. (With A. J. Foote.)

Leslie William Greely, Muncie, Ind. A Design for a Reinforced Concrete Trestle.

Achilles Hadja Savva, A.B., Baffra, Turkey in Asia. An Investigation of the Water Supply System of the Town of Cohasset, Massachusetts, with Reference to Adequacy for Fire Protection. (With O. S. Smith.)

Austin Brown Henderson, Beverly. An Investigation of the Strength of Yellow Pine Ties for use on Railroad Bridges. (With J. B. Babcock, 3d.)

Elmer Jacobs, Needham. A Plan for a Proposed Concrete Arch Railroad Bridge over the Charles River at Charles River Village, Massachusetts. Gorton James, A.B., Brookline. An Investigation of Rate Making for Public Water Supplies. (With J. Lodge.)

Charles Frederick Joy, Jr., Chelsea. An Investigation of Bridge Failures. Philip Gustavo Laurson, B.S., Mitchell, S. Dak. A Design for a Concrete Dock at South Boston, Massachusetts. (With A. B. Merry.)

Lasley Lee, Carbondale, Pa. An Investigation of the Efficiencies of Different Types of Anchorages of Steel Rods in Concrete. (With L. O. French.)

John Lodge, A.B., Media, Pa. An Investigation of Rate Making for Public Water Supplies. (With G. James.)

Carl Howard Lovejoy, Dorchester. A Design for a Reinforced Concrete Water Tank and Tower.

Manson Ainslie Lyons, Parrsboro, Nova Scotia. Rating of a Fire Nozzle Metre. (With M. S. Tod.)

Austin Blake Mason, A. B., Boston. A Study of the Power House at the Outlet of Sebago Lake, Maine.

Clarence Dickinson Maynard, Somerville. A Design for a Spandrel Braced Two-Hinged Steel Arch Railroad Bridge.

Murray Homan Mellish, Malden. A Study of Various Types of Movable Dams.

Augustus Bradford Merry, Vineyard Haven. A Design for a Concrete Dock at South Boston, Massachusetts. (With P. G. Laurson.)

George Lewis Mylechreest, B.S., Middletown, Conn. A Comparison of the Strength of Coke-Breeze Concrete and Broken-Stone Concrete. (With H. N. Cummings.)

Manuel Adrian Navarro, Quito, Ecuador. A Design for a Two-Hinged Steel Arch Highway Bridge.

Harold Frank Parsons, Gloucester. A Study for the Location of an Outfall for the Sewerage System of Gloucester, Massachusetts. (With C. R. Benton and J. H. O'Neill.)

Earl Wellington Pilling, Danielson, Conn. A Design for a Reinforced Concrete Bridge across the Charles River at West Roxbury. (With O. R. Rietschlin.)

Floyd Jacob Pitcher, Somerville. Tests of a Humphrey Turbine. (With P. W. Taylor.)

Otto Rheinhard Rietschlin, Jamaica Plain. A Design for a Reinforced Concrete Arch Bridge across the Charles River at West Roxbury. (With E. W. Pilling.)

Read Isbell Ripley, Malden. Design of a Hydro-Electric Power Plant.

Louis Griffin Rowe, Gloucester. A Study of Breakwater Designs.

Harold Sharp, Nantucket. A Discussion of the Changes in the Houliver Beach at Nantucket, Massachusetts, with Designs for an Artificial Cut through the Beach.

Henry Lancy Sherman, Pasadena, Cal. A Study of the Water Works of the City of Hartford, Connecticut. Ralph Amsden Sinead, B.S., Greenfield. A Design for a Sewerage System for Ashland, Massachusetts. (With J. Ahlers.)

Otis Sanborn Smith, Leominster, N. H. An Investigation of the Water Supply System of the Town of Cohasset, Massachusetts, with Reference to Adequacy for Fire Protection. (With A. Hadji Savva.)

Frank Griffiths Tuite, Merion, Pa. A Design for a Highway Bridge with Reinforced Concrete Girders.

Philip Weston Taylor, Arlington. Tests of a Humphrey Turbine. (With F. J. Pitcher.)

Philip Dunbar Terry, Waterville, N. Y. A Study of the Possibilities of Water-Power Development near Wayne, New York. (With J. M. Fitzwater.)

Rafael Joaquin Torralbas, C.E., B.S., Havana, Cuba. A Design for a Three-Hinged Reinforced Concrete Arch Highway Bridge.

Richard Gaines Tyler, C.E., Waco, Texas. A Design for a Division Gate for a Diversion Canal.

William Ratcliffe Waldo, Winthrop. Tests upon the Crushing Strength of I-Beam Webs. (With R. P. Watson.)

Robert Pettit Waller, A. B., Bloomsburg, Pa. A Preliminary Investigation to Determine the Hydraulic Power Available on the Green River, at Williamstown, Massachusetts. (With A. W. Andrews.)

Richard Parker Watson, Roxbury. Tests upon the Crushing Strength of I-Beam Webs. (With W. R. Waldo.)

Robert Pettit Waller, A. B., Bloomsburg, Pa. A Preliminary Investigation to Determine the Hydraulic Power Available on the Green River, at Williamstown, Massachusetts.

Waldo Cornell York (Of the class of 1909), New Bedford. An Experimental Determination of the Coefficient of Friction in Opening the Sluice Gates of the Charles River Dam.

COURSE II. MECHANICAL ENGINEERING.

Roy Horsford Abbe, Bethlehem, N. H. Investigations of an Inertia Governor. (With L. E. Briggs.)

Leou Myer Adler, Birmingham, Ala. Calculation of a Reaction Steam Turbine. (With H. W. Flickinger.)

Raynor Huntington Allen, Cincinnati, Ohio. A Determination of the Losses in Transmission, the Propeller Shaft, and the Rear Axle of an Automobile.

Frank Adams Baker, Dorchester. Investigations of a Westinghouse Le Blanc Condenser. (With A. G. Batsner.)

George Ellinwood Batcheller, Mount Vernon, N. Y. A Plan for Hydro-Electric Development on the Souhegan River at Merrimack, New Hampshire. (With A. L. Fabens, A. P. Truette, and D. V. Williamson.)

Alexander Graydon Batsner, Cincinnati, Ohio. Investigation of a Westinghouse Le Blanc Condenser. (With P. A. Baker.)

Charles Johiah Belden, Ross, Cal. Investigations of a Knox Automobile Engine. (With H. G. Hawes, Jr.)

Frank Frederick Bell, Bristol, Pa. A Study of the Effect of Loam on Cement Mortar and Concrete. (With V. Z. Beall.)

Leroy Edmund Briggs, Providence, R. I. Investigations of an Inertia Governor. (With R. H. Abbe.)

Dallas Brown, Jr., New Bedford. Comparative Wearing Tests on Different Makes of Globe and Gate Valves.

Charles Donald Carey, A.B., Stroudsburg, Pa. Holding Power of Boiler Tubes in 1-2 in. Plate.

Orrin James Crommett, Critical Speeds of Rotating Shafts with Varying Loads.

Frederick Archibald Dewey, Huntington, L. I. A Study of an Emerson Steam Pump.

Robert Emmett Dillon, Belchertown. An Investigation of the Losses in a Power Plant. (With R. J. Haley.)

Charles French Doble, Quincy. Comparison of the Running Properties of Three Types of Involute Gears. (With C. E. Green.)

Walter Remy Dray, B.A., Chicago, Ill. Corburetion.

Charles Alexander Dunkel, Rosindale. A Study of the Steam Distribution and Thermo Efficiency of a Water Gas Plant. (With H. C. Perley.)

Andrew Lawrie Fabens, A.B., Williamstown. A Plan for Hydro-Electric Development on the Souhegan River at Merrimack, New Hampshire. (With G. E. Batcheller, A. P. Truette and D. V. Williamson.)

Harrison William Flickinger, Brookline. Calculation of a Reaction Steam Turbine. (With L. M. Adler.)

Louis Osborne French, Milwaukee, Wis. An Investigation of the Efficiency of Different Types of Anchorages of Steel Rods in Concrete. (With L. Lee.)

Charles Edward Green, Dorchester. A Comparison of the Running Properties of Three Types of Involute Gears. (With C. F. Doble.)

Henry Appleton de, Jr., Salem. An Investigation of the Variations in Count and Twist of Standard Cotton Yarns.

Ralph Jandt Haley, A.B., Sioux City, Iowa. An Investigation of the Losses in a Power Plant. (With R. E. Dillon.)

John Kearsley Mitchell Harrison, Brookline. Design, Construction and Testing of an Apparatus for Determining the Power Transmitted by a Belt. Operating on the Principle that the Rate of Vibrations of the Belt is Dependent on the Tension.

Philip Hart, Portland, Oregon. A Study of the Thermal Conductivity, both Absolute and during Fire Tests, of Stone and Cinder Concrete.

Henry Gordon Hawes, Jr., A.B., Santa Barbara, Cal. Investigations on a Knox Automobile Engine. (With C. J. Belden.)

Mayo Dyer Hersey, A.B., West Hartford, Conn. Journal Friction and Carrying Power.

THE OLD CORNER BOOKSTORE

Headquarters for all

Student Text Books

27 and 29 Bromfield Street
BOSTON

Tel. Main 4706.