

CASUALTY ACTUARIAL SOCIETY

1930 YEAR BOOK

Officers, Council and Committees

List of Fellows and Associates

List of Ex-Presidents and Ex-Vice-Presidents

List of Deceased Members

List of Students

Constitution and By-Laws

Examination Requirements

1929 Examination Questions

(Corrected to February 1, 1930)

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No. 9

CASUALTY ACTUARIAL SOCIETY

NOVEMBER 19, 1929

THE COUNCIL

**Officers:* GEORGE D. MOORE.....*President*
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 PAUL DORWEILER.....*Vice-President*
 RICHARD FONDILLER.....*Secretary-Treasurer*
 ROBERT J. McMANUS.....*Editor*
 WILLIAM BREIBY.....*Librarian*

†*Ex-Presidents:* G. F. MICHELbacher.....1930
 SANFORD B. PERKINS.....1932

†*Ex-Vice-Presidents:* RALPH H. BLANCHARD.....1930
 THOMAS F. TARBELL.....1932

†*Elected:* ROY A. WHEELER.....1930
 WILLIAM M. CORCORAN.....1930
 EVERETT S. FALLOW.....1930
 WILLIAM F. ROEBER.....1931
 WINFIELD W. GREENE.....1931
 LEON S. SENIOR.....1931
 EDWIN W. KOPF.....1932
 HARWOOD E. RYAN.....1932
 JAMES W. GLOVER.....1932

*Terms expire at the annual meeting in November, 1930.

†Terms expire at the annual meeting in November of the year given.

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 ROY A. WHEELER CHARLES G. SMITH
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MEMBERSHIP OF THE SOCIETY, NOVEMBER 19, 1929

FELLOWS

Those marked (†) were Charter Members at date of organization, November 7, 1914.

Those marked (*) have been admitted as Fellows upon examination by the Society.

Date Admitted	
May 23, 1924	Bailey, William B., Economist, The Travelers Insurance Co., 700 Main St., Hartford, Conn.
*Nov. 20, 1924	Barber, Harmon T., Assistant Actuary, Casualty Actuarial Department, The Travelers Insurance Co., 700 Main St., Hartford, Conn.
†	Benjamin, Roland, Treasurer, Fidelity & Deposit Co., Baltimore, Md.
†	Black, S. Bruce, President, Liberty Mutual Insurance Co., Park Square Building, Boston, Mass.
Apr. 20, 1917	Blanchard, Ralph H., Professor of Insurance, School of Business, Columbia University, New York.
May 24, 1921	Bond, Edward J., Jr., First Vice-President, Maryland Casualty Co., Baltimore, Md.
May 19, 1915	Bradshaw, Thomas, Vice-President and General Manager, Massey-Harris Co., Limited, 915 King St., Toronto, Canada; President, North American Life Assurance Co. of Canada, Toronto, Canada.
†	Breiby, William, Consulting Actuary, Fackler & Breiby, 25 Church St., New York.
*Nov. 18, 1927	Brown, F. Stuart, Deputy Comptroller, Lloyds Casualty Co., 75 Maiden Lane, New York.
Oct. 22, 1915	Brown, Herbert D., Chief of U. S. Efficiency Bureau, 408 Winder Building, 17th and F. Sts., N. W., Washington, D. C.
Oct. 22, 1915	Brown, William H., Second Vice-President and Secretary, Columbian National Life Insurance Co., 77 Franklin St., Boston, Mass.
June 5, 1925	Brosmith, William, Vice-President and General Counsel, The Travelers Insurance Co. and The Travelers Indemnity Co., 700 Main St., Hartford, Conn.
†	Buck, George B., Consulting Actuary for Pension Funds, 25 Spruce St., New York.
May 26, 1916	Bucklin, Walter S., President, National Shawmut Bank, 40 Water St., Boston, Mass.
†	Budlong, W. A., Superintendent of Claims, Commercial Travelers Mutual Accident Association, Utica, N. Y.
Apr. 20, 1917	Burhop, William H., Secretary, Employers Mutual Liability Insurance Co., Wausau, Wis.

FELLOWS

Date Admitted	
*Nov. 23, 1928	Burling, William H., The Travelers Insurance Co., 700 Main St., Hartford, Conn.
Feb. 19, 1915	Burns, F. Highlands, President, Maryland Casualty Co., Baltimore, Md.
*Nov. 19, 1929	Cahill, James M., The Travelers Insurance Co., 700 Main St., Hartford, Conn.
†	Cammack, Edmund E., Vice-President and Actuary, Aetna Life Insurance Co., Hartford, Conn.
†	Carpenter, Raymond V., Actuary, Metropolitan Life Insurance Co., 1 Madison Ave., New York.
*Nov. 15, 1918	Coates, Barrett N., Coates and Herfurth, Consulting Actuaries, 114 Sansome St., San Francisco, Calif.
*Nov. 17, 1922	Coates, Clarence S., Federal California Underwriters, Insurance Center Building, San Francisco, Calif.
Oct. 27, 1916	Cogswell, Edmund S., Second Deputy Commissioner of Insurance, State House, Boston, Mass.
Feb. 19, 1915	Collins, Henry, Deputy Manager, Ocean Accident & Guarantee Corporation and Vice-President, Columbia Casualty Co., 1 Park Ave., New York.
*Nov. 23, 1928	Comstock, W. Phillips, Continental Casualty Co., 75 Fulton St., New York.
†	Copeland, John A., Consulting Actuary, Candler Building, Atlanta, Ga.
*Nov. 18, 1925	Corcoran, William M., Office of S. H. and Lee J. Wolfe, Consulting Actuaries, 165 Broadway, New York.
†	Cowles, Walter G., Vice-President, The Travelers Insurance Co., 700 Main St., Hartford, Conn.
†	Craig, James D., Actuary, Metropolitan Life Insurance Co., 1 Madison Ave., New York.
*Nov. 19, 1926	Crane, Howard G., Assistant Comptroller, General Reinsurance Corporation, 80 John St., New York.
*Nov. 18, 1927	Davis, Evelyn M., Associate Actuary, Woodward, Fondiller & Ryan, Consulting Actuaries, 75 Fulton St., New York.
†	Dawson, Alfred B., Miles M. Dawson & Son, Inc., 36 W. 44th St., New York.
†	Dawson, Miles M., Consulting Actuary and Counsellor at Law, 36 W. 44th St., New York.
†	DeKay, Eckford C., President, Industrial Service Corporation, 84 William St., New York.
†	Dearth, Elmer H., Detroit Athletic Club, Box 38, Detroit, Mich.
*Nov. 17, 1920	Dorweiler, Paul, Actuary, Accident and Liability Department, Aetna Life Insurance Co., Hartford, Conn.
†	Dublin, Louis I., Statistician, Metropolitan Life Insurance Co., 1 Madison Ave., New York.
May 19, 1915	Dunlap, Earl O., Assistant Actuary, Metropolitan Life Insurance Co., 1 Madison Ave., New York.
†	Egbert, Lester D., Director, Brown, Crosby & Co., Inc., Insurance Brokers, 96 Wall St., New York.
*Nov. 17, 1922	Elston, James S., Assistant Actuary, Life Department, The Travelers Insurance Co., 700 Main St., Hartford, Conn.
†	Epsteen, Saul R., 418 U. S. National Bank Building, Denver, Colo.

FELLOWS

Date Admitted	
	† Fackler, Edward B., Consulting Actuary, Fackler & Breiby, 25 Church St., New York.
	† Fallow, Everett S., Actuary, Accident Department, The Travelers Insurance Co., 700 Main St., Hartford, Conn.
	† Farrer, Henry, Assistant Secretary, Independence Companies, Independence Building, Philadelphia, Pa.
Feb. 19, 1915	Fellows, Claude W., President, Associated Indemnity Corporation, Associated Fire & Marine Insurance Co., Associated Insurance Fund, Inc., Associated Insurance Building, 332 Pine St., San Francisco, Calif.
Feb. 19, 1915	Flanigan, James E., Agency Manager, Bankers Life Co., 225 Broadway, New York.
	† Flynn, Benedict D., Secretary and Actuary, The Travelers Insurance Co., 700 Main St., Hartford, Conn.
Feb. 19, 1915	Fondiller, Richard, Woodward, Fondiller & Ryan, Consulting Actuaries, 75 Fulton St., New York.
	† Forbes, Charles S., Treasurer, Smyth, Sanford and Gerard, Inc., Insurance Brokers, 68 William St., New York; President, Service Mutual Liability Insurance Co., Park Square Building, Boston, Mass.
Nov. 19, 1929	Foster, R. Leighton, Superintendent of Insurance, Province of Ontario, Parliament Building, Toronto, Canada.
May 26, 1916	Frankel, Lee K., Second Vice-President, Metropolitan Life Insurance Co., 1 Madison Ave., New York.
	† Franklin, Charles H., Secretary, Continental Casualty Co., 910 South Michigan Ave., Chicago, Ill.
*Nov. 18, 1927	Fredrickson, Carl H., Actuary, Canadian Automobile and Casualty Underwriters Association, 330 Bay St., Toronto, Canada.
Feb. 25, 1916	Froggatt, Joseph, President, Joseph Froggatt & Co., Insurance Accountants, 74 Trinity Place, New York.
	† Furze, Harry, Treasurer, Globe Indemnity Co., Washington Park, Newark, N. J.
Feb. 19, 1915	Garrison, Fred S., Assistant Secretary, The Travelers Indemnity Co., 700 Main St., Hartford, Conn.
*Nov. 20, 1924	Ginsburgh, Harold J., American Mutual Liability Insurance Co., 142 Berkeley St., Boston, Mass.
May 19, 1915	Glover, James W., Professor of Mathematics and Insurance, University of Michigan, 620 Oxford Road, Ann Arbor, Mich.
	† Goodwin, Edward S., Goodwin-Beach & Co., Brokers, 64 Pearl St., Hartford, Conn.
	† Gould, William H., Consulting Actuary, 75 Fulton St., New York.
*Nov. 19, 1926	Graham, Charles M., Assistant Actuary, State Insurance Fund, 432 Fourth Ave., New York.
Oct. 22, 1915	Graham, George, Vice-President, Central States Life Insurance Co., 3663 Lindell Blvd., St. Louis, Mo.
Oct. 22, 1915	Graham, Thompson B., Assistant Secretary, Metropolitan Life Insurance Co., 1 Madison Ave., New York.
	† Graham, William J., Vice-President, Equitable Life Assurance Society, 393 Seventh Ave., New York.

FELLOWS

Date Admitted	
May 25, 1923	Granville, William A., Director of Publications, Washington Fidelity National Insurance Co., 1607 Howard St., Chicago, Ill.
Nov. 19, 1929	Gray, V. Evan, Barrister-at-law, Sterling Tower, 372 Bay St., Toronto, Canada.
†	Greene, Winfield W., Comptroller, General Reinsurance Corporation, and U. S. Branch of United British Insurance Co., Ltd., 80 John St., New York.
†	Hamilton, Robert C. L., Comptroller, Hartford Accident & Indemnity Co., Hartford, Conn.
†	Hammond, H. Pierson, Actuary, Life Department, The Travelers Insurance Co., 700 Main St., Hartford, Conn.
†	Hansen, Carl M., President, International Reinsurance Corporation, Pacific Finance Bldg., Los Angeles, Calif.
Oct. 27, 1916	Hardy, Edward R., Assistant Manager, New York Fire Insurance Exchange, 85 John St., New York.
Oct. 22, 1915	Hatch, Leonard W., Member, State Industrial Board, 124 East 28th St., New York.
*Nov. 19, 1926	Haugh, Charles J., Jr., Assistant Actuary, National Bureau of Casualty & Surety Underwriters, 1 Park Ave., New York.
Nov. 17, 1920	Heath, Charles E., Vice-President and Secretary, Standard Surety & Casualty Company of New York, 80 John St., New York.
Nov. 21, 1919	Henderson, Robert, Vice-President and Actuary, Equitable Life Assurance Society, 393 Seventh Ave., New York.
May 17, 1922	Heron, David, Secretary and Chief Statistician, London Guarantee & Accident Co., Ltd., 20 Lincoln's Inn Fields, London, W. C. 2, England.
Oct. 22, 1915	Hess, Herbert, Herbert Hess & Co., Public Accountants and Auditors, 120 Broadway, New York.
†	Hillas, Robert J., (Retired) 2 Whippany Road, Morristown, N. J.
Nov. 15, 1918	Hinsdale, Frank W., Secretary, Workmen's Compensation Board, Vancouver, B. C., Canada.
May 23, 1924	Hobbs, Clarence W., Special Representative of the National Convention of Insurance Commissioners, National Council on Compensation Insurance, 151 Fifth Ave., New York.
Nov. 19, 1926	Hodges, Charles E., President, American Mutual Liability Insurance Co., Allied American Mutual Automobile Insurance Co., American Policyholders' Insurance Co., 142 Berkeley St., Boston, Mass.
Oct. 22, 1915	Hodgkins, Lemuel G., Secretary, Massachusetts Protective Association and Massachusetts Protective Life Assurance Co., Worcester, Mass.
†	Hoffman, Frederick L., Consulting Statistician, Prudential Insurance Co.; Research Consultant, Babson Institute, Wellesley Hills, Mass.; Director of Research, Aviation Business Bureau, Inc., 72 Wall St., New York.
Oct. 22, 1915	Holland, Charles H., President, Independence Indemnity Co., Independence Building, Philadelphia, Pa.
†	Hughes, Charles, Auditor and Actuary, New York Insurance Department, 111 John St., New York.

FELLOWS

Date Admitted	
Nov. 19, 1929	Hull, Robert S., Comptroller, Standard Accident Insurance Co., 640 Temple Ave., Detroit, Mich.
†	Hunt, Burritt A., Assistant Secretary, Accident and Liability Department, Aetna Life Insurance Co., Hartford, Conn.
†	Hunter, Arthur, Second Vice-President and Chief Actuary, New York Life Insurance Co., 51 Madison Ave., New York.
Nov. 18, 1921	Hutcheson, William A., Second Vice-President and Actuary, Mutual Life Insurance Co., 32 Nassau St., New York.
Feb. 25, 1916	Jackson, Charles W., Actuary, Postal Life Insurance Co., 511 Fifth Ave., New York.
*Nov. 19, 1929	Jackson, Henry H., Actuary, National Life Insurance Co., Montpelier, Vt.
May 19, 1915	Johnson, William C., Vice-President, Massachusetts Protective Association, Worcester, Mass.
Nov. 23, 1928	Jones, F. Robertson, General Manager, Association of Casualty and Surety Executives; and Secretary-Treasurer, Workmen's Compensation Publicity Bureau, Bureau of Personal Accident and Health Underwriters, International Association of Casualty and Surety Underwriters and Committee of Nine on "Financial Responsibility for Automobile Accidents," 1 Park Ave., New York.
*Nov. 19, 1926	Kelton, William H., Assistant Actuary, Life Department, The Travelers Insurance Co., 700 Main St., Hartford, Conn.
†	King, Walter I., Vice-President, Connecticut General Life Insurance Co., 55 Elm St., Hartford, Conn.
*Nov. 21, 1919	Kirkpatrick, A. Loomis, W. A. Alexander & Co., 134 So. LaSalle St., Chicago, Ill.
†	Kopf, Edwin W., Assistant Statistician, Metropolitan Life Insurance Co., 1 Madison Ave., New York.
Nov. 23, 1928	Kulp, Clarence A., Professor of Insurance, University of Pennsylvania, Logan Hall, 36th St. and Woodland Ave., Philadelphia, Pa.
Feb. 19, 1915	Laird, John M., Vice-President, Connecticut General Life Insurance Co., 55 Elm St., Hartford, Conn.
Nov. 17, 1922	Lawrence, Arnette R., Special Deputy Commissioner of Banking and Insurance, 1203 Military Park Building, 60 Park Place, Newark, N. J.
†	Leal, James R., Vice-President and Secretary, Interstate Life and Accident Co., Interstate Building, 540 McCallie Ave., Chattanooga, Tenn.
†	Leslie, William, Associate General Manager, National Bureau of Casualty & Surety Underwriters, 1 Park Ave., New York.
*Nov. 20, 1924	Linder, Joseph, Associate Actuary, Woodward, Fondiller & Ryan, Consulting Actuaries, 75 Fulton St., New York.
Nov. 18, 1921	Little, James F., Second Vice-President and Associate Actuary, Prudential Insurance Co., Newark, N. J.
Nov. 23, 1928	Lunt, Edward C., Vice-President, Great American Indemnity Co., 1 Liberty St., New York.
Feb. 19, 1915	Maddrill, James D., Consulting Actuary, 351 West 42nd St., New York.
†	Magoun, William N., General Manager, Massachusetts Rating and Inspection Bureau, 80 Broad St., Boston, Mass.

FELLOWS

Date Admitted	
*Nov. 23, 1928	Marshall, Ralph M., National Council on Compensation Insurance, 151 Fifth Ave., New York.
*Nov. 18, 1927	Masterson, Norton E., Actuary, Hardware Mutual Casualty Co., Stevens Point, Wis.
*Nov. 19, 1926	Matthews, Arthur N., The Travelers Insurance Co., 700 Main St., Hartford, Conn.
May 19, 1915	Maycrink, Emma C., Examiner, New York Insurance Department, 111 John St., New York.
*Nov. 16, 1923	McClurg, D. Ralph, Secretary and Treasurer, National Equity Life Insurance Co., Little Rock, Ark.
May 23, 1919	McDougald, Alfred, Ellerslie, Beddington Gardens, Wallington Surrey, England.
*Oct. 31, 1917	McManus, Robert J., Statistician, Casualty Actuarial Department, The Travelers Insurance Co., 700 Main St., Hartford, Conn.
Feb. 19, 1915	Mead, Franklin B., Executive Vice-President, The Lincoln National Life Insurance Co., Fort Wayne, Ind.
Apr. 20, 1917	Meltzer, Marcus, Statistician, National Bureau of Casualty and Surety Underwriters, 1 Park Ave., New York.
†	Michelbacher, Gustav F., Vice-President and Secretary, Great American Indemnity Co., 1 Liberty St., New York.
†	Miller, David W., Assistant Treasurer, S. W. Strauss & Co., Investment Bonds, 565 Fifth Ave., New York.
†	Milligan, Samuel, Third Vice-President, Metropolitan Life Insurance Co., 1 Madison Ave., New York.
†	Mitchell, James F., Assistant U. S. Manager, General Accident Fire and Life Assurance Corporation, Ltd., 414 Walnut St., Philadelphia, Pa.
†	Moir, Henry, President, United States Life Insurance Co., 156 Fifth Ave., New York.
*Nov. 18, 1921	Montgomery, Victor, Secretary and General Manager, Pacific Employers Insurance Co., 928 So. Figuerva St., Los Angeles, Calif.
Nov. 19, 1926	Mooney, William L., Vice-President, Aetna Life Insurance Co., Hartford, Conn.
†	Moore, George D., Comptroller, Standard Surety & Casualty Company of New York, 80 John St., New York.
May 19, 1915	Morris, Edward B., Actuary, Life Department, The Travelers Insurance Co., Hartford, Conn. (Deceased, December 19, 1929)
†	Morrison, James, Secretary-Treasurer, Independence Indemnity Co., Independence Building, Philadelphia, Pa.
†	Mowbray, Albert H., Consulting Actuary, 806 San Luis Road, Berkeley, Calif.; Professor of Insurance, University of California, Berkeley, Calif.
May 20, 1918	Mudgett, Bruce D., Professor of Economics, University of Minnesota, Minneapolis, Minn.
*Nov. 17, 1920	Mueller, Louis H., President, Varney Air Lines, Inc., 310 Balboa Building, San Francisco, Calif.
†	Mullaney, Frank R., Secretary, American Mutual Liability Insurance Co., and American Policyholders' Insurance Co., 142 Berkeley St., Boston, Mass.

FELLOWS

Date Admitted	
May 28, 1920	Murphy, Ray D., Second Vice-President and Associate Actuary, Equitable Life Assurance Society, 393 Seventh Ave., New York.
†	Nicholas, Lewis A., Assistant Secretary, Fidelity & Casualty Co., 92 Liberty St., New York.
†	Olifiers, Edward, Consulting Actuary, P. O. Box 1817, Rio-de-Janeiro, Brazil.
Nov. 18, 1927	O'Neill, Frank J., President, Royal Indemnity Co. and Eagle Indemnity Co., 150 William St., New York.
†	Orr, Robert K., President, Wolverine Insurance Co., Lansing, Mich.
†	Otis, Stanley L., Counsellor at Law, 110 William St., New York.
*Nov. 21, 1919	Outwater, Olive E., Assistant Actuary, Benefit Association of Railway Employees, 901 Montrose Ave., Chicago, Ill.
Nov. 19, 1926	Page, Bertrand A., Vice-President, The Travelers Insurance Co., 700 Main St., Hartford, Conn.
*Nov. 18, 1921	Perkins, Sanford B., Assistant Secretary, Compensation and Liability Department, The Travelers Insurance Co., 700 Main St., Hartford, Conn.
Nov. 15, 1918	Perry, W. T., Assistant Manager, Ocean Accident and Guarantee Corporation, 36 Moorgate, London, E. C. 2, England.
Nov. 19, 1926	Phillips, Jesse S., President, Great American Indemnity Co., 1 Liberty St., New York.
*Nov. 17, 1922	Pinney, Sydney D., Associate Actuary, Casualty Actuarial Department, The Travelers Insurance Co., 700 Main St., Hartford, Conn.
May 13, 1927	Reid, A. Duncan, President and General Manager, Globe Indemnity Co., Washington Park, Newark, N. J.
†	Remington, Charles H., Insurance Counselor and Advisor, Suite 1801-1805, French Building, 551 Fifth Ave., New York.
May 23, 1919	Richardson, Frederick, U. S. Manager and Director, General Accident Fire and Life Assurance Corporation, 414 Walnut St., Philadelphia, Pa.
*Nov. 19, 1926	Richter, Otto C., American Telephone & Telegraph Co., 195 Broadway, New York.
May 24, 1921	Riegel, Robert, Professor of Statistics and Insurance, University of Buffalo, Buffalo, N. Y.
*Nov. 16, 1923	Roeber, William F., Assistant Manager, National Council on Compensation Insurance, 151 Fifth Ave., New York.
†	Rubinow, Isaac M., Secretary, Independent Order of B'nai B'rith, 40 Electric Bldg., Cincinnati, O.
†	Ryan, Harwood E., Woodward, Fondiller & Ryan, Consulting Actuaries, 75 Fulton St., New York.
†	Scheitlin, E., Assistant Treasurer, Globe Indemnity Co., Washington Park, Newark, N. J.
†	Senior, Leon S., Manager and Secretary, Compensation Inspection Rating Board, 370 Seventh Ave., New York.
*Nov. 19, 1929	Skelding, Albert Z., Assistant Actuary, National Council on Compensation Insurance, 151 Fifth Ave., New York.
*Nov. 19, 1929	Skillings, Edward S., Associate Actuary, Woodward, Fondiller & Ryan, Consulting Actuaries, 75 Fulton St., New York.

FELLOWS

Date Admitted	
Apr. 20, 1917	Smith, Charles G., Manager, State Insurance Fund, 432 Fourth Ave., New York.
Nov. 18, 1927	Stone, Edward C., U. S. Manager, Employers' Liability Assurance Corporation, Limited, and President, American Employers' Insurance Company, 110 Milk St., Boston, Mass.
Feb. 25, 1916	Strong, Wendell M., Associate Actuary, Mutual Life Insurance Co., 32 Nassau St., New York.
Oct. 22, 1915	Strong, William Richard, No. 4 "Sheringham," Cotham Road, Kew, Victoria, Australia.
†	Sullivan, Robert J., Vice-President, The Travelers Insurance Co., and The Travelers Indemnity Co., 700 Main St., Hartford, Conn.
*Nov. 17, 1920	Tarbell, Thomas F., Actuary, Casualty Actuarial Department, The Travelers Insurance Co., 700 Main St., Hartford, Conn.
†	Thompson, John S., Vice-President and Mathematician, Mutual Benefit Life Insurance Co., 300 Broadway, Newark, N. J.
Nov. 18, 1921	Toja, Guido, Professor of Financial and Actuarial Mathematics, University of Florence, Florence, Italy.
†	Train, John L., Secretary and General Manager, Utica Mutual Insurance Co., 185 Genessee St., Utica, N. Y.
Nov. 17, 1922	Traversi, Antonio T., Consulting Actuary and Accountant, Barrack House, 16 Barrack St., Sydney, Australia.
*Nov. 23, 1928	Valerius, N. M., Accident & Liability Department, Aetna Life Insurance Co., Hartford, Conn.
*Nov. 21, 1919	Van Tuyl, Hiram O., Actuary, Constitution Indemnity Company of Philadelphia, Independence Building, Independence Square, Philadelphia, Pa.
*Nov. 17, 1920	Waite, Alan W., Chief Underwriter, Accident and Liability Department, Aetna Life Insurance Co., Hartford, Conn.
*Nov. 18, 1925	Warren, Lloyd A. H., Professor of Mathematics, University of Manitoba, 64 Niagara St., Winnipeg, Manitoba, Canada.
May 23, 1919	Welch, Archibald, A., President, Phoenix Mutual Life Insurance Co., Hartford, Conn.
Nov. 19, 1926	Wheeler, Roy A., Vice-President and Actuary, Liberty Mutual Insurance Co., Park Square Building, Boston, Mass.
†	Whitney, Albert W., Associate General Manager and Actuary, National Bureau of Casualty & Surety Underwriters, 1 Park Ave., New York.
†	Wolfe, Lee J., Consulting Actuary, 165 Broadway, New York.
May 24, 1921	Wood, Arthur B., Vice-President and Actuary, Sun Life Assurance Company of Canada, Montreal, Canada.
*Nov. 17, 1920	Young, Charles N., Manager, Safety Engineering Department, Constitution Indemnity Company of Philadelphia, Independence Building, Philadelphia, Pa.

ASSOCIATES

Those marked (*) have been enrolled as Associates upon examination by the Society.

Those marked (1) or (2) have passed Part I or Part II of the Fellowship Examination.

Date Enrolled	
May 23, 1924	Acker, Milton, Manager, Compensation and Liability Department, National Bureau of Casualty and Surety Underwriters, 1 Park Ave., New York.
*Nov. 15, 1918	Ackerman, Saul B., Associate Professor of Insurance, New York University, 90 Trinity Place, New York.
(1)*Nov.23,1928	Ainley, John W., The Travelers Insurance Co., 700 Main Street, Hartford, Conn.
April 5, 1928	Allen, Austin F., Vice-President, Texas Employers Insurance Association and Employers Casualty Co., Dallas, Texas.
*Nov. 15, 1918	Ankers, Robert E., Secretary and Treasurer, Continental Life Insurance Co., District National Bank Building, Washington, D. C.
(1)*Nov.16,1923	Ault, Gilbert E., Associate Actuary, Woodward, Fondiller & Ryan, Consulting Actuaries, 75 Fulton St., New York.
(1)*Nov.17,1922	Barter, John L., Superintendent, Liability Department, Pacific Department, Hartford Accident & Indemnity Co., 720 California St., San Francisco, Calif.
(1)*Nov.23,1928	Bateman, Arthur E., Liberty Mutual Insurance Company, Park Square Building, Boston, Mass.
*Nov. 19, 1926	Batho, Elgin R., Assistant Actuary, Ontario Equitable Life & Accident Insurance Co., Waterloo, Ontario, Canada.
*Nov. 18, 1925	Bittel, W. Harold, Peoria Life Insurance Co., 410 Main St., Peoria, Ill.
Nov. 17, 1920	Black, Nellis C., Superintendent Statistical Division, Maryland Casualty Co., Baltimore, Md.
*Nov. 23, 1928	Bower, Perry S., Great West Life Assurance Company, Winnipeg, Manitoba, Canada.
Nov. 15, 1918	Brooks, LeRoy, Statistician, U. S. Fidelity & Guaranty Co., Baltimore, Md.
Nov. 20, 1924	Broughton, Thomas W., General Superintendent, Zurich General Accident and Liability Insurance Co., Eastern Department, 80 John Street, New York.
*Nov. 15, 1918	Brunnquell, Helmuth G., Actuary, Wisconsin Insurance Department, Madison, Wis.
*Oct. 22, 1915	Bufler, Louis, District Manager, Utica Mutual Insurance Co., 225 West 34th St., New York.
*Nov. 20, 1924	Bugbee, James M., Maryland Casualty Co., Baltimore, Md.
March 31, 1920	Burt, Margaret A., Office of George B. Buck, Consulting Actuary, 25 Spruce St., New York.
*Nov. 19, 1929	Carlson, Thomas O., National Bureau of Casualty and Surety Underwriters, 1 Park Ave., New York.

ASSOCIATES

Date Enrolled	
Nov. 17, 1922	Cavanaugh, Leo D., Vice-President and Actuary, Federal Life Insurance Co., 166 N. Michigan Blvd., Chicago, Ill.
*Nov. 18, 1927	Chen, S. T., Actuarial Department, China United Assurance Society, 34 Bubbling Road, Shanghai, China.
*Nov. 18, 1927	Conrod, Stuart F., Office of Woodward, Fondiller & Ryan, Consulting Actuaries, 75 Fulton St., New York.
*Nov. 18, 1921	Constable, William J., Lumbermens Mutual Casualty Co., 260 Tremont St., Boston, Mass.
May 23, 1929	Cowee, George A., Vice-President, Liberty Mutual Insurance Co., Park Square Building, Boston, Mass.
①*Nov.19,1926	Davies, E. Alfred, Budget Supervisor, Liberty Mutual Insurance Co., Park Square Building, Boston, Mass.
*Nov. 18, 1925	Davis, Malvin E., Metropolitan Life Insurance Co., 1 Madison Ave., New York.
May 25, 1923	Economidy, Harilaus E., Treasurer, American Indemnity Co., Texas Indemnity Insurance Co., American Fire & Marine Insurance Co., Galveston, Texas.
June 5, 1925	Eger, Frank A., Comptroller, Insurance Company of North America and Affiliated Companies, 1600 Arch St., Philadelphia, Pa.
Nov. 15, 1918	Egli, Wilfred H., Assistant Manager, Zurich General Accident & Liability Insurance Co., Ltd., 175 West Jackson Blvd., Chicago, Ill.
*Nov. 23, 1928	Faith, Edward L., Missouri State Life Insurance Co., 1501 Locust St., St. Louis, Mo.
*Nov. 16, 1923	Fitz, L. Leroy, Actuary, Joseph Froggatt & Co., 74 Trinity Place, New York.
①*Nov.18,1927	Fitzgerald, A. H., Assistant Actuary, The Prudential Insurance Company of America, Newark, N. J.
*Nov. 16, 1923	Fleming, Frank A., Actuary, American Mutual Alliance, 730 5th Ave., New York.
May 23, 1919	Fletcher, Nicholas, Assistant to Commissioner and Secretary, Workmen's Compensation Board, Winnipeg, Manitoba, Canada.
Nov. 20, 1924	Froberg, John, Superintendent, California Inspection Rating Bureau, San Francisco, Calif.
①*Nov.19,1926	Fuller, Gardner V., Assistant Secretary, National Council on Compensation Insurance, 151 Fifth Ave., New York.
①*Nov.19,1929	Furnivall, Maurice L., Accident Actuarial Department, The Travelers Insurance Co., 700 Main St., Hartford, Conn.
*Nov. 17, 1922	Gibson, Joseph P., Jr., General Manager, Excess Underwriters, Inc., 75 Fulton St., New York.
*Nov. 16, 1923	Gildea, James F., The Travelers Insurance Co., 700 Main Street, Hartford, Conn.
①*Nov.23,1928	Glenn, J. Bryan, The Travelers Insurance Co., 700 Main St., Hartford, Conn.
Nov. 19, 1929	Gordon, Harold R., Executive Secretary, Health & Accident Underwriters Conference, 330 South Wells St., Chicago, Ill.
*Nov. 18, 1927	Green, Walter C., Office of Coates and Herfurth, Consulting Actuaries, 14 Sansome St., San Francisco, Calif.

ASSOCIATES

Date Enrolled	
*Nov. 18, 1921	Haggard, Robert E., Superintendent, Permanent Disability Rating Department, Industrial Accident Commission, State Building, Civic Center, San Francisco, Calif.
*Nov. 17, 1922	Hall, Hartwell L., Assistant Actuary, Connecticut Insurance Department, Hartford, Conn.
Nov. 20, 1924	Hall, Leslie L., Secretary-Treasurer, National Bureau of Casualty & Surety Underwriters, 1 Park Ave., New York.
②*Nov.18,1925	Hall, William D., Motor City Agency, United Artists Building, 154 Bagley Ave., Detroit, Mich.
①*Mar.25,1924	Hart, Ward Van Buren, Assistant Actuary, Connecticut General Life Insurance Co., Hartford, Conn.
Nov. 21, 1919	Haydon, George F., General Manager, Wisconsin Compensation Rating & Inspection Bureau, 110 East Wisconsin Ave., Milwaukee, Wis.
Nov. 17, 1927	Hipp, Grady H., Actuary, New York State Insurance Fund, 432 Fourth Ave., New York.
*Oct. 31, 1917	Jackson, Edward T., Statistician, General Accident Fire & Life Assurance Corporation, 421 Walnut St., Philadelphia, Pa.
Nov. 19, 1929	Jacobs, Carl N., Vice-President and General Manager, Hardware Mutual Casualty Co., Stevens Point, Wis.
①*Nov.18,1927	Jamison, Dorothy M., Assistant Actuary, George Washington Life Insurance Co., 1014 Kanawha St., Charleston, W. Va.
②*Nov.18,1921	Jensen, Edward S., Actuary, Great Republic Life Insurance Co., 8th and Spring Sts., Los Angeles, Calif.
*Nov. 21, 1919	Jones, Loring D., Assistant Manager, State Insurance Fund, 432 Fourth Ave., New York.
*Nov. 17, 1922	Kirk, Carl L., Actuary, Zurich General Accident & Liability Insurance Co., 431 Insurance Exchange, Chicago, Ill.
*Nov. 19, 1926	Kormes, Mark, National Bureau of Casualty and Surety Underwriters, 1 Park Ave., New York.
*Nov. 23, 1928	Lipkind, S. S., Reliance Life Insurance Company, Pittsburgh, Pa.
*Nov. 18, 1925	Malmuth, Jacob, Examiner, New York Insurance Department, 111 John St., New York.
Mar. 24, 1927	Marsh, Charles V. R., Comptroller and Assistant Treasurer, Fidelity & Deposit Co. and American Bonding Co., Baltimore, Md.
①*Oct. 27, 1916	McClure, Laurence H., Assistant Sales Manager, Electrical Division, Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn.
*Nov. 17, 1922	McIver, Roswell A., Actuary, Washington Fidelity National Insurance Co., 1607 Howard St., Chicago, Ill.
*Nov. 19, 1926	Merkle, Mrs. Grace G., The Maccabees, 5057 Woodward Ave., Detroit, Mich.
①*Nov.17,1922	Michener, Samuel M., Assistant Actuary, Columbus Mutual Life Insurance Co., 580 East Broad St., Columbus, Ohio.
*Nov. 19, 1926	Milne, John L., Actuary, Presbyterian Ministers' Fund for Life Insurance, 1805-7 Walnut St., Philadelphia, Pa.
Nov. 17, 1922	Montgomery, John C., Secretary and Assistant Treasurer, Bankers Indemnity Insurance Co., 31 Clinton St., Newark, N. J.

ASSOCIATES

Date Enrolled	
May 25, 1923	Moore, Joseph P., President, North American Accident Insurance Co., 455 Craig St., W., Montreal, Canada.
(2)*Nov.21,1919	Mothersill, Roland V., Secretary, Anchor Casualty Co., Anchor Insurance Building, St. Paul, Minn.
*Nov. 19, 1929	Muller, Fritz, Prokurist, "Agrippina" Lebensversicherungsbank Aktiengesellschaft, Berlin, Germany.
(1)*Oct. 27,1916	Newell, William, Assistant Secretary, Sun Indemnity Co., 55 Fifth Ave., New York.
*Nov. 23, 1928	Newhall, Karl, Group Department, The Travelers Insurance Co., 700 Main St., Hartford, Conn.
*Nov. 18, 1925	Nicholson, Earl H., Assistant to Executive Vice-President, Inter-Southern Life Insurance Co., Louisville, Ky.
May 23, 1919	Otto, Walter E., Secretary and Treasurer, Michigan Mutual Liability Co., 1209 Washington Blvd., Detroit, Mich.
*Nov. 19, 1926	Overholser, Donald M., Clokey & Miller, Brokers, 52 Broadway, New York.
Nov. 20, 1924	Pennock, Richard M., Actuary, Pennsylvania Manufacturers Association Casualty Insurance Co., Finance Building, Philadelphia, Pa.
Nov. 22, 1928	Perryman, F. S., Actuary and Assistant Secretary, Royal Indemnity Co., 150 William St., New York.
Nov. 19, 1929	Phillips, J. H., Secretary-Actuary, Minnesota Compensation Insurance Board, State Capitol, St. Paul, Minn.
*Nov. 17, 1920	Pike, Morris, Actuary, Unity Life & Accident Insurance Association, Syracuse, N. Y.
Mar. 24, 1927	Piper, John W., Superintendent of Statistical Department, Hartford Accident & Indemnity Co., 690 Asylum Ave., Hartford, Conn.
(1)*Nov.23,1928	Piper, Kenneth B., Associate Actuary, Woodward, Fondiller & Ryan, Consulting Actuaries, 75 Fulton Street, New York.
*Nov. 18, 1927	Poissant, William A., The Travelers Insurance Co., 700 Main Street, Hartford, Conn.
(1)*Nov.17,1922	Poorman, William F., Actuary, Central Life Assurance Society, Fifth and Grand Aves., Des Moines, Iowa.
(1)Nov. 17, 1922	Powell, John M., Actuary, Columbian National Life Insurance Co., 77 Franklin St., Boston, Mass.
*Nov. 18, 1925	Prenner, Myron R., Actuary, Department of Insurance, Bismarck, N. D.
*Nov. 23, 1928	Pruitt, Dudley M., Actuary, Pennsylvania Indemnity Corporation, Atlantic Building, Philadelphia, Pa.
*Nov. 15, 1918	Raywid, Joseph, President, Joseph Raywid & Co., Inc., 90 William St., New York.
Nov. 19, 1929	Richardson, Harry F., Secretary-Treasurer, National Council on Compensation Insurance, 151 Fifth Ave., New York.
*Nov. 21, 1919	Robbins, Rainard B., Vice-President-Actuary, Union Labor Life Insurance Co., Machinists Building, Mount Vernon Place, Washington, D. C.
*Nov. 18, 1927	Sarason, Harry M., Missouri State Life Insurance Co., St. Louis, Mo.
Nov. 16, 1923	Sawyer, Arthur, Globe Indemnity Co., Washington Park, Newark, N. J.
(1)*Nov.20,1924	Sheppard, Norris E., University of Toronto, Toronto, Canada.

ASSOCIATES

Date Enrolled	
Nov. 15, 1918	Sibley, John L., Assistant Secretary, United States Casualty Co., 80 Maiden Lane, New York.
*Nov. 18, 1921	Smith, Arthur G., Treasurer and Actuary, Compensation Inspection Rating Board, 370 Seventh Ave., New York.
*Nov. 19, 1929	Silverman, David, Office of Woodward, Fondiller & Ryan, Consulting Actuaries, 75 Fulton St., New York.
(1)*Nov.19,1926	Somerville, William F., Actuary and Underwriter, Anchor Casualty Co., Anchor Insurance Building, St. Paul, Minn.
*Nov. 18, 1925	Sommer, Armand, Manager, Accident and Health Department, Southern Surety Company of New York, 111 John St., New York.
*Nov. 18, 1927	Speers, Alexander A., Actuary, Toledo Travelers Life Insurance Co., Toledo, Ohio.
*Nov. 15, 1918	Spencer, Harold S., Aetna Life Insurance Co., Hartford, Conn.
Nov. 20, 1924	Stellwagen, Herbert P., Assistant Vice-President, Indemnity Insurance Company of North America, 1600 Arch Street, Philadelphia, Pa.
*Nov. 16, 1923	Stoke, Kendrick, Michigan Mutual Liability Ins. Co., 1209 Washington Blvd., Detroit, Mich.
(1)*Nov.19,1929	Taheny, John J., Attorney, Compensation Insurance Expert, Arizona Industrial Commission, Phoenix, Ariz.
Mar. 23,1921	Thompson, Arthur E., Chief Statistician, Globe Indemnity Co., Washington Park, Newark, N. J.
(1)*Nov.21,1919	Trench, Frederick H., Manager, Underwriting Department, Utica Mutual Insurance Co., 185 Genesee St., Utica, N. Y.
(1)*Nov.20,1924	Uhl, M. Elizabeth, National Bureau of Casualty & Surety Underwriters, 1 Park Ave., New York.
*Nov. 21, 1919	Voogt, Walter G., Comptroller and Assistant Treasurer, Associated Indemnity Corporation, 332 Pine St., San Francisco, Calif.
(1)*Oct. 27, 1916	Waite, Harry V., Statistician, The Travelers Fire Insurance Co., 700 Main St., Hartford, Conn.
May 23, 1919	Warren, Charles S., Comptroller, Lloyds Casualty Co., 75 Maiden Lane, New York.
Nov. 18, 1925	Washburn, James H., Consulting Actuary, 2004 West End Avenue, Nashville, Tenn.
(1)*Nov.18,1921	Waters, Leland L., Secretary-Treasurer, National Accident Insurance Co., Lincoln, Neb.
Nov. 17, 1920	Watson, J. J., 5818 Palo Pinto Avenue, Dallas, Texas.
*Nov. 18, 1921	Welch, Eugene R., Associated Indemnity Corporation, Associated Insurance Building, 332 Pine St., San Francisco, Calif.
*Nov. 19, 1926	Welch, George P., Vice-President, J. Murray Walker & Co., Inc., Shawmut National Bank Building, Boston, Mass.
*Nov. 16, 1923	Wetherald, Dorothy, 4631 Sansome St., Philadelphia, Pa.
*Nov. 18, 1927	Whitbread, Frank G., Great West Life Assurance Co., Winnipeg, Manitoba, Canada.
*Nov. 18, 1925	Wellman, Alexander C., Actuary, Protective Life Insurance Co., Birmingham, Ala.

ASSOCIATES

Date Enrolled	
Mar. 21, 1929	Wheeler, Charles A., Chief Examiner of Casualty Companies, New York Insurance Department, 111 John St., New York.
Nov. 15, 1918	Wilkinson, A. Edward, Actuary, Standard Accident Insurance Co., 640 Temple Ave., Detroit, Mich.
Sept. 17, 1919	Williams, John F., Vice-President, Illinois Life Insurance Co., 1212 Lake Shore Drive, Chicago, Ill.
*Oct. 22, 1915	Williamson, William R., Assistant Actuary, Life Department, The Travelers Insurance Co., 700 Main St., Hartford, Conn.
*Nov. 19, 1929	Wittick, Herbert E., Standard Accident Insurance Co., 640 Temple Ave., Detroit, Mich.
*Oct. 22, 1915	Wood, Donald M., Childs & Wood, General Agents, Independence Indemnity Co., 175 W. Jackson Blvd., Chicago, Ill.
*Nov. 18, 1927	Wood, Milton J., The Travelers Insurance Co., 700 Main St., Hartford, Conn.
*Oct. 22, 1915	Woodman, Charles E., Assistant Manager, Ocean Accident & Guarantee Corporation, 1 Park Ave., New York.
*Nov. 18, 1925	Woolery, James M., Assistant Actuary, Inter-Southern Life Insurance Co., Louisville, Ky.
*Nov. 17, 1922	Young, Floyd E., Assistant Secretary and Actuary, National Fidelity Life Insurance Co., National Fidelity Life Building, Kansas City, Mo.

SCHEDULE OF MEMBERSHIP, NOVEMBER 19, 1929

	Fellows	Associates	Total
Membership, November 23, 1928.....	170	117	287
Additions:			
By election.....	3	6	9
By examination.....	4	5	9
By reinstatement.....	..	1	1
	177	129	306
Deductions:			
By death.....	1	..	1
By withdrawal.....	1	..	1
By transfers from Associate to Fellow.	..	5	5
Membership, November 19, 1929.....	175	124	299

EX-PRESIDENTS AND EX-VICE-PRESIDENTS

EX-PRESIDENTS

	Term
I. M. RUBINOW.....	1914-1916
JAMES D. CRAIG.....	1916-1918
*JOSEPH H. WOODWARD.....	1918-1919
BENEDICT D. FLYNN.....	1919-1920
ALBERT H. MOWBRAY.....	1920-1922
HARWOOD E. RYAN.....	1922-1923
WILLIAM LESLIE.....	1923-1924
G. F. MICHELbacher.....	1924-1926
SANFORD B. PERKINS	1926-1928

EX-VICE-PRESIDENTS

	Term
LEON S. SENIOR.....	1920-1922
EDMUND E. CAMMACK	1922-1924
RALPH H. BLANCHARD.....	1924-1926
THOMAS F. TARBELL.....	1926-1928

*Deceased

DECEASED MEMBERS

All of the following were Fellows with the exception of those marked * who were Associates.

Date of Death	
Feb. 10, 1920	*Baxter, Don. A., Deputy Insurance Commissioner, Michigan Insurance Department, Lansing, Mich.
Feb. 4, 1920	Case, Gordon, Office of F. J. Haight, Consulting Actuary, Indianapolis, Ind.
July 23, 1921	Conway, Charles T., Vice-President, Liberty Mutual Insurance Co., Boston, Mass.
Jan. 20, 1922	Craig, James McIntosh, Actuary, Metropolitan Life Insurance Co., New York.
Sept. 2, 1921	Crum, Frederick S., Assistant Statistician, Prudential Insurance Co., Newark, N. J.
July 9, 1922	Downey, Ezekiel Hinton, Compensation Actuary, Pennsylvania Insurance Department, Harrisburg, Pa.
Oct. 30, 1924	Fackler, David Parks, Consulting Actuary, New York.
Aug. 22, 1925	Gaty, Theodore E., Vice-President and Secretary, Fidelity & Casualty Co., New York.
Mar. 10, 1924	Hookstadt, Carl, Expert, U. S. Bureau of Labor Statistics, Washington, D. C.
Feb. 11, 1928	Kearney, Thomas P., Manager, State Compensation Insurance Fund, Denver, Col.
Oct. 15, 1918	Kime, Virgil Morrison, Actuary, Casualty Departments, Travelers Insurance Co., Hartford, Conn.
Dec. 9, 1927	Landis, Abb, Consulting Actuary, Nashville, Tenn.
Dec. 20, 1920	*Lubin, Harry, Assistant Actuary, State Industrial Commission, New York.
Aug. 20, 1915	Montgomery, William J., State Actuary, Boston, Mass.
July 24, 1915	Phelps, Edward B., Editor, The American Underwriter, New York.
July 30, 1921	Reiter, Charles Grant, Assistant Actuary, Metropolitan Life Insurance Co., New York.
Feb. 26, 1921	Saxton, Arthur F., Chief Examiner of Casualty Companies, New York Insurance Department, New York.
May 9, 1920	Stone, John T., President, Maryland Casualty Co., Baltimore, Md.
Dec. 31, 1927	Wolfe, S. Herbert, Consulting Actuary, New York.
May 15, 1928	Woodward, Joseph H., Consulting Actuary, New York.
Oct. 23, 1927	Young, William, Actuary, New York Life Insurance Co., New York.

STUDENTS

Part I and Part II Passed

The following candidates have been successful in completing the examinations for Associate but have not yet been enrolled as Associates of the Society by reason of the terms of examination rule 4 which reads: "Upon the candidate having passed both Parts I and II he will be enrolled as an Associate, provided he presents evidence of at least one year experience in actuarial, accounting or statistical work in casualty insurance offices or in the teaching of casualty insurance science at a recognized college or university, or other evidence of his knowledge of actuarial, accounting or statistical work as is satisfactory to the Council." Upon the completion of the requirements of the Council in respect to each of these candidates they will be enrolled as Associates:

- BATHO, BRUCE, The Franklin Life Insurance Company, Springfield, Ill.
 CHODORCOFF, WILLIAM, 324 Church Ave., Winnipeg, Manitoba, Canada.
 FELDMAN, ISRAEL, 686 Albert St., Ottawa, Ontario, Canada.
 LAIRD, W. DARRELL, 345 Waterloo St., Winnipeg, Manitoba, Canada.
 LEHANE, LEO J., Hardware Mutual Casualty Company, Stevens Point, Wis.
 MUTH, A. F., Actuarial Department, London Life Insurance Company, London, Canada.
 ORLOFF, CONRAD, Assistant Actuary, Pyramid Life Insurance Company, Security Bldg., Kansas City, Mo.
 PRASOW, ROSE, Actuarial Department, Confederation Life Association, Toronto, Ontario, Canada.
 SHEPPELLER, S. I., 791 Selkirk Ave., Winnipeg, Manitoba, Canada.
 SMICK, J. J., National Council on Compensation Insurance, 151 Fifth Ave., New York.
 YATES, J. ARNOLD, The Travelers Insurance Company, 700 Main St., Hartford, Conn.

The following candidates for the grade of Associate have passed one of the two parts of the examination, during the last three years:

Part I only

- ARTHUR, CHARLES R., University of Manitoba, Winnipeg, Manitoba, Canada.
 BURHANS, C. H., Standard Accident Insurance Company, 640 Temple Ave., Detroit, Mich.
 DAVIS, MARJORIE, Constitution Indemnity Company, Philadelphia, Pa.
 WOODWARD, BARBARA H., National Bureau of Casualty and Surety Underwriters, 1 Park Ave., New York.

Part II only

- CAMERON, F. R., Woodward, Fondiller & Ryan, 75 Fulton St., New York.
 GUTHRIE, JOHN A., University of Manitoba, Winnipeg, Manitoba, Canada.
 HUNTON, T. F., Assistant Actuary, Canadian Automobile and Casualty Underwriters Associations, 330 Bay St., Toronto, Canada.
 MACKEEN, HAROLD E., The Travelers Insurance Company, 700 Main St., Hartford, Conn.
 MESSINGER, L. W., Missouri State Life Insurance Co., St. Louis, Mo.
 SINNOTT, R. V., Hartford Accident & Indemnity Company, 690 Asylum Ave., Hartford, Conn.
 SUTHERLAND, HENRY M., University of Manitoba, Winnipeg, Manitoba, Canada.
 THOMPSON, EMERSON W., 188 Sargeant St., Hartford, Conn.

CONSTITUTION

(AS AMENDED NOVEMBER 23, 1928)

ARTICLE I.—*Name.*

This organization shall be called the CASUALTY ACTUARIAL SOCIETY.

ARTICLE II.—*Object.*

The object of the Society shall be the promotion of actuarial and statistical science as applied to the problems of casualty and social insurance by means of personal intercourse, the presentation and discussion of appropriate papers, the collection of a library and such other means as may be found desirable.

The Society shall take no partisan attitude, by resolution or otherwise, upon any question relating to casualty or social insurance.

ARTICLE III.—*Membership.*

The membership of the Society shall be composed of two classes, Fellows and Associates. Fellows only shall be eligible to office or have the right to vote.

The Fellows of the Society shall be the present members and those who may be duly admitted to Fellowship as hereinafter provided. Any Associate of the Society may apply to the Council for admission to Fellowship. If the application shall be approved by the Council with not more than three negative votes the Associate shall become a Fellow on passing such final examination as the Council may prescribe. Otherwise no one shall be admitted as a Fellow unless recommended by a duly called meeting of the Council with not more than three negative votes followed by a three-fourths ballot of the Fellows present and voting at a meeting of the Society.

Any person may, upon nomination to the Council by two Fellows of the Society and approval by the Council of such nomination with not more than one negative vote, become enrolled as an Associate of the Society, provided that he shall pass such examination as the Council may prescribe. Such examination may be waived in the case of a candidate who for a period of not less than two years has been in responsible charge of the statistical or actuarial department of a casualty insurance organization or has had such other practical experience in casualty or social insurance as in the opinion of the Council renders him qualified for Associateship.

ARTICLE IV.—*Officers and Council.*

The officers of the Society shall be a President, two Vice-Presidents, a Secretary-Treasurer, an Editor, and a Librarian. The Council shall be composed of the active officers, nine other Fellows and, during the four years following the expiration of their terms of office, the ex-Presidents and ex-Vice-Presidents. The Council shall fill vacancies occasioned by death or resignation of any officer or other member of the Council, such appointees to serve until the next annual meeting of the Society.

CONSTITUTION

ARTICLE V.—*Election of Officers and Council.*

The President, Vice-Presidents, and the Secretary-Treasurer shall be elected by a majority ballot at the annual meeting for the term of one year and three members of the Council shall, in a similar manner, be annually elected to serve for three years. The Editor and the Librarian shall be elected annually by the Council at the Council meeting preceding the annual meeting of the Society. They shall be subject to confirmation by majority ballot of the Society at the annual meeting.

The terms of the officers shall begin at the close of the meeting at which they are elected except that the retiring Editor shall retain the powers and duties of office so long as may be necessary to complete the then current issue of *Proceedings*.

ARTICLE VI.—*Duties of Officers and Council.*

The duties of the officers shall be such as usually appertain to their respective offices or may be specified in the by-laws. The duties of the Council shall be to pass upon candidates for membership, to decide upon papers offered for reading at the meetings, to supervise the examination of candidates and prescribe fees therefor, to call meetings, and, in general, through the appointment of committees and otherwise, to manage the affairs of the Society.

ARTICLE VII.—*Meetings.*

There shall be an annual meeting of the Society on such date in the month of November as may be fixed by the Council in each year, but other meetings may be called by the Council from time to time and shall be called by the President at any time upon the written request of ten Fellows. At least two weeks' notice of all meetings shall be given by the Secretary.

ARTICLE VIII.—*Quorum.*

Seven members of the Council shall constitute a quorum. Twenty Fellows of the Society shall constitute a quorum.

ARTICLE IX.—*Expulsion or Suspension of Members.*

Except for non-payment of dues no member of the Society shall be expelled or suspended save upon action by the Council with not more than three negative votes followed by a three-fourths ballot of the Fellows present and voting at a meeting of the Society.

ARTICLE X.—*Amendments.*

This constitution may be amended by an affirmative vote of two-thirds of the Fellows present at any meeting held at least one month after notice of such proposed amendment shall have been sent to each Fellow by the Secretary.

BY-LAWS

(AS AMENDED MAY 21, 1926)

ARTICLE I.—*Order of Business.*

At a meeting of the Society the following order of business shall be observed unless the Society votes otherwise for the time being:

1. Calling of the roll.
2. Address or remarks by the President.
3. Minutes of the last meeting.
4. Report by the Council on business transacted by it since the last meeting of the Society.
5. New membership.
6. Reports of officers and committees.
7. Election of officers and Council (at annual meetings only.)
8. Unfinished business.
9. New business.
10. Reading of papers.
11. Discussion of papers.

ARTICLE II.—*Council Meetings.*

Meetings of the Council shall be called whenever the President or three members of the Council so request, but not without sending notice to each member of the Council seven or more days before the time appointed. Such notice shall state the objects intended to be brought before the meeting, and should other matter be passed upon, any member of the Council shall have the right to re-open the question at the next meeting.

ARTICLE III.—*Duties of Officers.*

The President, or, in his absence, one of the Vice-Presidents, shall preside at meetings of the Society and of the Council. At the Society meetings the presiding officer shall vote only in case of a tie, but at the Council meetings he may vote in all cases.

The Secretary-Treasurer shall keep a full and accurate record of the proceedings at the meetings of the Society and of the Council, send out calls for the said meetings, and, with the approval of the President and Council, carry on the correspondence of the Society. Subject to the direction of the Council, he shall have immediate charge of the office and archives of the Society.

BY-LAWS

The Secretary-Treasurer shall also send out calls for annual dues and acknowledge receipt of same; pay all bills approved by the President for expenditures authorized by the Council of the Society; keep a detailed account of all receipts and expenditures, and present an abstract of the same at the annual meetings, after it has been audited by a committee of the Council.

The Editor shall, under the general supervision of the Council, have charge of all matters connected with editing and printing the Society's publications. The *Proceedings* shall contain only the proceedings of the meetings, original papers or reviews written by members, discussions on said papers and other matter expressly authorized by the Council.

The Librarian shall, under the general supervision of the Council, have charge of the books, pamphlets, manuscripts and other literary or scientific material collected by the Society.

ARTICLE IV.—*Dues.*

The dues shall be ten dollars for Fellows payable upon entrance and at each annual meeting thereafter, except in the case of Fellows not residing in the United States, Canada, or Mexico, who shall pay five dollars at the time stated. The dues shall be five dollars for Associates payable upon entrance and each annual meeting thereafter until five such payments in all shall have been made; beginning with the sixth annual meeting after the admission of an Associate as such the dues of any Associate heretofore or hereafter admitted shall be the same as those of a Fellow. The payment of dues will be waived in the case of Fellows or Associates who have attained the age of seventy years.

It shall be the duty of the Secretary-Treasurer to notify by mail any Fellow or Associate whose dues may be six months in arrears, and to accompany such notice by a copy of this article. If such Fellow or Associate shall fail to pay his dues within three months from the date of mailing such notice, his name shall be stricken from the rolls, and he shall thereupon cease to be a Fellow or Associate of the Society. He may, however, be reinstated by vote of the Council, and upon payment of arrears of dues.

ARTICLE V.—*Designation by Initials.*

Fellows of the Society are authorized to append to their names the initials F. C. A. S.; and Associates are authorized to append to their names the initials A. C. A. S.

ARTICLE VI.—*Amendments.*

These by-laws may be amended by an affirmative vote of two-thirds of the Fellows present at any meeting held at least one month after notice of the proposed amendment shall have been sent to each Fellow by the Secretary.

EXAMINATION REQUIREMENTS

SYLLABUS OF EXAMINATIONS

SUBJECTS

ASSOCIATESHIP: (*Part I: Sections 1 to 4; Part II: Sections 5 to 8*)

Section 1. Advanced algebra

Section 2. Compound interest and annuities certain

Section 3. Descriptive and analytical statistics

Section 4. Elements of accounting, including double-entry bookkeeping

Section 5. Finite differences

Section 6. Differential and integral calculus

Section 7. Probabilities

Section 8. Elements of the theory of life contingencies; life annuities; life assurances

FELLOWSHIP: (*Part I: Sections 9 to 12; Part II: Sections 13 to 16*)

Section 9. Policy forms and underwriting practice in casualty insurance

Section 10. Investments of insurance companies

Section 11. Insurance law and legislation

Section 12. Economics of insurance

Section 13. Calculation of premiums and reserves for casualty (including social) insurance

Section 14. Advanced practical problems in casualty (including social) insurance statistics

Section 15. Advanced problems and practical methods of casualty insurance accounting

Section 16. Advanced problems in underwriting, administrative and service elements of casualty (including social) insurance

To assist students in preparation for the examinations, Recommendations for Study have been prepared. This lists the texts, readings and technical material which must be mastered by the candidates. Text books are loaned to candidates by the Society.

EXAMINATION REQUIREMENTS

RULES REGARDING EXAMINATIONS FOR
ADMISSION TO THE SOCIETY

(AS AMENDED MAY 23, 1929)

The Council adopted the following rules providing for the examination system of the Society:

1. Examinations will be held on the last Wednesday and Thursday during the month of May in each year in such cities as will be convenient for three or more candidates.

2. Application for admission to examination should be made on the Society's blank form, which may be obtained from the Secretary-Treasurer. No applications will be considered unless received before the fifteenth day of March preceding the dates of examination.

3. A fee of \$5.00 will be charged for admission to examination. This fee is the same whether the candidate sits for one or two parts and is payable for each year in which the candidate presents himself. Examination fees are payable to the Secretary-Treasurer and must be in his hands before the fifteenth day of March preceding the dates of examination.

4. The examination for Associateship consists of two parts. No candidate will be permitted to present himself for Part II unless he has previously passed in Part I or takes Parts I and II in the same year. If a candidate takes both parts in the same year and passes in one and fails in the other, he will be given credit for the part passed. Upon the candidate having passed both Parts I and II he will be enrolled as an Associate, provided he presents evidence of at least one year experience in actuarial, accounting or statistical work in casualty insurance offices or in the teaching of casualty insurance science at a recognized college or university, or other evidence of his knowledge of actuarial, accounting or statistical work as is satisfactory to the Council.

5. In the case of applicants in the following classes, the Council may, upon receipt of satisfactory evidence that applicants are within the terms of this rule, waive the passing of both Parts I and II of the Associateship Examination. Such applicants may become Associates upon passing Part I of the

EXAMINATION REQUIREMENTS

Fellowship Examination, and may be admitted as Fellows by examination, provided they subsequently pass Part II of the Fellowship Examination.

- (a) Casualty insurance men not less than thirty years of age who have been in the business a number of years and who have attained responsible actuarial, statistical, accounting or semi-executive positions.*
- (b) Fellows and Associates by examination of the Actuarial Society of America or of the American Institute of Actuaries.

6. The examination for Fellowship is divided into two parts. No candidate will be permitted to present himself for Part II unless he has previously passed in Part I or takes Parts I and II in the same year. If a candidate takes both parts in the same year and passes in one and fails in the other, he will be given credit for the part passed.

7. As an alternative to the passing of Part II of the Fellowship examination, a candidate may elect to present an original thesis on an approved subject relating to casualty or social insurance. Candidates electing this alternative should communicate with the Secretary-Treasurer as to the approval of the subject chosen. All theses must be in the hands of the Secretary-Treasurer before the last Thursday in May of the year in which they are to be considered. Where Part I of the Fellowship examination is not taken during the same year, no examination fee will be required in connection with the presentation of a thesis. All theses submitted are, if accepted, to be the property of the Society and may, with the approval of the Council, be printed in the *Proceedings*.

*In support of the candidate's claim that he is within the terms of this rule, he should attach to his application a letter from each of the nominators signing his application. These letters should state the facts of the candidate's experience which appear to entitle the candidate to the benefit of this rule.

1929 EXAMINATIONS OF THE SOCIETY

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EXAMINATION FOR ADMISSION AS ASSOCIATE

PART I

1. (a) Find the term involving y^{12} in $(x^{1/2} - 2y^2)^{11}$. What is the ninth term?
(b) Solve $12x^4 - 56x^3 + 89x^2 - 56x + 12 = 0$
2. There are three towns A , B , and C ; a person by walking from A to B , driving from B to C , and riding from C to A makes the journey in $15\frac{1}{2}$ hours; by driving from A to B , riding from B to C , and walking from C to A , he could make the journey in 12 hours. On foot he could make the journey in 22 hours, on horseback in $8\frac{1}{4}$ hours and driving in 11 hours. To walk a mile, ride a mile, and drive a mile, he takes altogether half an hour: find the rates at which he travels, and the distances between the towns.
3. (a) Find two numbers such that their sum is 9 and the sum of their cubes is 351.
(b) Out of a group of twenty people what is the largest number of sub-groups possible, each containing the same number of persons. What would be the size of each sub-group?
4. (a) Find the number of permutations which can be made from the letters of the word "Mississippi."
(b) Given $\log 3 = .4771$, find $\log \{(2.7)^3 \times (.81)^{4/5} \div (90)^{5/4}\}$
5. (a) What is the meaning of the term "error" in statistics? Distinguish between cumulative and compensating errors.

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- (b) State the advantages and disadvantages of the "Mode" as a type; compare the advantages and disadvantages of the "Median" with those of the "Mode."
6. (a) Define the term "probable error." Express the probable error as a function of the standard deviation.
- (b) Compute the standard deviation for the following data which give the number of workmen in each of the respective weekly wage groups:

<u>Wages</u>	<u>Frequency</u>
\$15-20	10
20-25	19
25-30	20
30-35	21
35-40	18
40-45	0
45-50	15

7. You are directed to prepare some statistical reports on the lost time, through all causes and with particular reference to various kinds of illness, of a company employing about 1,000 persons, male and female, and working in a number of different departments. The company has a full-time doctor and nurse. State what system you would institute and what data you would require; how you would arrange to secure it, how tabulate it; and in what forms you would present the results to the management. What data would you prepare to assist the doctor in reaching and correcting the causes of ill health in the plant?
8. Determine the Pearsonian coefficient of correlation for the following data:

<u>Department</u>	<u>Payroll (hundreds of dollars)</u>	<u>Work Units of Production</u>
A	2	3
B	23	47
C	24	59
D	36	96
E	50	119

Discuss the degree of correlation of the result.

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9. (a) Define the following: annuity certain, nominal and effective rates of interest, deferred annuity, perpetual annuity, continuous annuity, and contingent annuity.
- (b) Find the present value of \$1,500.00 with interest payable annually at 6%, and due two years hence, when money is worth 4% nominal, payable quarterly.
10. (a) In how many years will a sum of money double itself at 8% compound interest?
- (b) In how many years will \$108 amount to \$1,050 at 5% compound interest?

Given for problem 10:

$$\log 3 = .477121$$

$$\log 5 = .698970$$

$$\log 7 = .845098$$

11. A 5% bond, par value \$1,000., with semi-annual coupons, matures in fourteen years and was bought for \$949.22 just after payment of semi-annual coupon.
- (a) Find approximate yield convertible semi-annually, using the formula

$$i = \frac{g - \frac{k}{n}}{1 + \frac{n+1}{2n} k}$$

- (b) Derive formula in (a)
12. What price should be paid for a \$1000 bond, interest at 5% per annum payable annually, repayable in five years with a 10% bonus in order to realize 6% on the investment?
- (v^5 at 6% = .7473)

13. If a \$150,000 issue of bonds is to be redeemed in 20 years and money can be accumulated at 4% compound interest, what sum must be raised annually to meet the cost?

$$\text{Given } (1.04)^{20} = 2.1911231$$

14. (a) Explain the meaning of these terms: "journal," "ledger," "trial balance," "balance sheet," "cashbook."

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- (b) Show the entries to be made on the books of a new organization for these transactions:
- (1) \$50,000 (par value) of the organization's stock is sold for \$60,000. Of this amount \$52,000 was received in cash and \$8,000 in notes.
 - (2) Salaries of \$150 are paid.
 - (3) \$1,500 is paid for merchandise.
 - (4) Merchandise is sold to Smith for \$500 on credit.
 - (5) Smith pays his bill in cash with 3 per cent. discount for prompt payment.
15. On January 2, 1923, a company buys \$10,000 par value of 6 per cent. bonds due January 2, 1925, paying \$101.88, a price which gives a yield of 5 per cent. Interest is payable on January 2nd and July 2nd.
- (a) Give entries to be made on the books of the company on the date of purchase, on each interest date thereafter, and on maturity, assuming that bonds are promptly paid when due, and that the company uses the amortization method of valuation.
 - (b) As of December 31, 1923, what asset items will arise from this transaction?
16. From the following Trial Balance make up a Profit and Loss Statement and a Balance Sheet:

TRIAL BALANCE	
December 31, 1925	
Cash.....	\$ 1,000
Notes Receivable.....	2,000
Accounts Receivable.....	3,500
Merchandise Inventory.....	5,000
Furniture and Fixtures.....	1,000
Notes Payable.....	\$ 1,000
Accounts Payable.....	1,000
Capital.....	10,000
Sales.....	19,000
Purchases.....	15,000
Expenses.....	4,000
Interest and Discount.....	500
	\$31,500
	\$31,500

The adjustment data as of December 31, 1925 is: Merchandise Inventory, \$7,000; Expenses paid in advance, \$100.; Accrued Expenses, \$500.; Interest Receivable, \$200.; Depreciation of Furniture and Fixtures, \$100.; Bad Debts estimated at \$200.

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PART II

- Sum by a method of finite differences the first 15 terms of the series whose general term is $n^3 - 3n + 5$.
- Supply the missing term in the following table using a method of finite differences:

$$\begin{aligned} u_0 &= 72795 \\ u_1 &= 71651 \\ u_2 &= 70458 \\ u_4 &= 67919 \\ u_6 &= 66566 \\ u_8 &= 65152 \end{aligned}$$

- A person goes on throwing a single die until it turns up ace. What is the chance
 - that he will have to make at least ten throws;
 - that he will have to make exactly ten throws?
- Two persons, whose probabilities of speaking the truth are $\frac{2}{3}$ and $\frac{5}{6}$ respectively, assert that a specified ticket has been drawn out of a bag containing 15 tickets: what is the probability of the truth of the assertion?
- The odds against a certain event are 5 to 2 and the odds in favor of another event independent of the former are 6 to 5; find the chance that one at least of the events will happen.
- A* bets \$16 against *B*'s \$20 contingent upon each throwing with one die. *A* throws with a regulation die but *B* uses a die with faces marked from 3 to 8. What is the value of *B*'s chance if equal throws divide and the higher throw takes the entire stake?
- A* and *B* and fifteen other men take their seats at a round table. What is the chance that they will sit together?

- (a) Find $\int \frac{4 dx}{x^2 + 4x}$

- (b) Find $\int \frac{(x^3 + x^2 + 2) dx}{(x^2 + 2)^2}$

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9. (a) Differentiate y with respect to x in the equation

$$y = (3x^2 + 2)\sqrt{1 + 5x^2}$$
 (b) Examine the function $3axy - x^3 - y^3$ for maximum and minimum values.
10. Derive the formula for integration by parts, and apply it to integrate

$$\frac{\log(x-1)}{(x+1)^2}$$

11. Find the probability that a person now aged 49 will die in his 52nd year, given

$$\begin{aligned} p_{49} &= .9854 \\ p_{50} &= .9843 \\ p_{51} &= .9832 \\ p_{52} &= .9821 \end{aligned}$$

12. In a certain population which is not affected by immigration or emigration, the death and birth rates are constant and the latter exceeds the former by 5 per thousand. In 1927, the number of births was 1200, and in 1926, the deaths were 80. What was the population at the beginning of 1926?
13. Given the below data, construct commutation columns and derive therefrom the following:

- (a) The value of a_{90}
 (b) The value of $a_{90:\overline{2}|}$
 (c) The value of $a_{93:93}$

x	l_x	v_x
90	847	.045
91	462	.044
92	216	.042
93	79	.041
94	21	.039
95	3	.038

14. A man aged thirty-five marries a woman aged thirty. Assuming that neither will remarry should the other die, express in terms of l_x and d_x the probabilities of the following events:
- (a) He is a widower at the end of five years.
 (b) She becomes a widow within five years.
 (c) The wife dies in the tenth year.
 (d) The man survives his wife, and himself dies within one year after attaining the age of sixty.

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15. Express in single probability symbols the probability that out of three lives, (x) , (y) , and (z)
- (a) One at least will fail in the n th year
 - (b) Not more than two will fail in the n th year.
16. (a) What is meant by "prospective" and "retrospective" methods in obtaining policy values?
- (b) Define the Force of Mortality and give a mathematical expression for its value.

EXAMINATION FOR ADMISSION AS FELLOW**PART I**

1. What is the object of coinsurance as applied to burglary coverage? Illustrate by examples. What limitations are placed on its application, and why?
2. (a) What information is required in order to determine the premium for
- (1) Automobile Public Liability
 - (2) Automobile Property Damage Liability
 - (3) Automobile Collision
- (b) Name five exclusions as to coverage in an automobile liability policy.
3. (a) If the wages of an injured employee have been intentionally withheld by the employer from the submitted premium payroll for a standard workmen's compensation and employers' liability policy, will that fact prevent the employee from collecting compensation from the carrier? If the carrier is compelled to pay an award under such a situation, can the carrier compel the employer to reimburse it? Give reasons for your answers.
- (b) A liability policy provides standard limits. As a result of an accident which involves a man, his wife, and another party, the husband and wife start separate actions on account of the wife's injuries and receive verdicts of \$4,000 and \$2,000 respectively. The other party sues and receives a verdict for \$2,000. What is the total liability of the carrier? Give reasons for your answer.

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4. Distinguish clearly between
 - (a) Burglary and robbery
 - (b) Corporate suretyship and insurance
 - (c) "Stop loss" and "excess" coverage as applied to workmen's compensation insurance
 - (d) Fidelity and surety

5. Outline briefly the coverage granted under the lines enumerated below and state the basis of premium for each.
 - (a) Plate Glass
 - (b) Contractors' Protective Public Liability
 - (c) Fraud Bonds
 - (d) Bank Robbery

6.
 - (a) Define "non-cancellable" as applied to an accident and health policy.
 - (b) Name five factors that an underwriter should consider in passing upon an application for such a policy.
 - (c) When does a health policy become effective?

7. In workmen's compensation insurance, how is the final premium computed if the policy is cancelled—
 - (1) By the Assured
 - (2) By the Carrier

In your answer give consideration to policies written for a minimum premium as well as to other policies.

8.
 - (a) In considering the renewal of a compensation policy, what information should the underwriter require?
 - (b) In passing upon new compensation business what factors should the underwriter consider and how can he obtain the desired information?

9. Discuss the advisability of a casualty company setting up a reserve for depreciation in the market value of their securities.

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10. Express your opinion of the comparative merits for the investments of a casualty company of the following classes of securities—

Bonds:

Municipal
Foreign Government
Railroad
Industrial
Public Utility

Stocks:

Preferred
Common

11. What factors should be considered in determining whether a casualty company should invest in any specified security?
12. If you were asked to value the stock of a casualty company, what factors would you consider?
13. Discuss the relative merits of anti-compact laws and rate regulatory laws.
14. Within the last year action has been taken against "ambulance chasers." Explain how this evil affects:
- (1) The insurance companies
 - (2) Honest claimants
 - (3) The bar
15. Discuss the statement that "self-insurance is not insurance."
16. Discuss a proposal to enact legislation which will require automobile owners to carry insurance to provide indemnity to individuals injured as a result of the operation of such automobiles regardless of fault.

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PART II

1. What is the purpose of a compensation indeterminate reserve table? In constructing such a table what statistics would you require and how would you use them?
2. In computing the premium subject to experience rating—
 - (a) Should the present manual rates or the manual rates in effect on the various policies entering into the experience be used? Why?
 - (b) In the cases of excess limits policies, should the limits on the new policy be used or the limits in effect on the various policies entering into the experience? Why?
3. Outline the procedure you would follow in making rates for excess compensation insurance.
4. Explain how you would determine rates for plate glass insurance assuming the only experience available was net premium written and net losses paid by territories for all classifications combined on a calendar-year basis.
5. Describe the investigation you would make in order to determine the effect upon a company's plate glass business, of writing that business upon the so-called 50-50 form of coverage, whereby the assured pays only 50% of the full manual premium and agrees to reimburse the carrier for all losses up to a total amount of 50% of the full manual premium.
6. Describe the unit system of reporting compensation experience adopted by either the New York Compensation Inspection Rating Board or the Massachusetts Inspection Rating Board. What are the advantages and disadvantages of this system over the system previously in effect?
7. If the accident frequency of the automobile liability business of your company were increasing what investigation would you make to determine the cause?

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8. Sketch designs for punch cards to be used for reporting automobile experience currently to a central rate-making organization.

9. (a) Explain the reasons for the differences between the liability loss reserves as shown in the annual statement and as shown in the Casualty Experience Exhibit.
(b) What purpose does Schedule O serve?

10. A company having a capital of \$4,000,000 shows the following transactions for calendar year 1928:
Net premiums written amounted to \$26,000,000; interest received on stocks and bonds, including \$25,000 accrued interest on bonds acquired during the year, amounted to \$1,325,000 and interest on bank deposits amounted to \$28,000; rents from company's property, including \$245,000 for occupancy of its own building, amounted to \$252,000; \$60,000 was collected on agents' balances charged off in previous years; and a gross profit of \$131,000 was realized from the sale of stocks.
At the close of the year the book value of real estate was \$1,300,000; of stocks and bonds was \$29,700,000; and bank deposits amounted to \$1,600,000. Gross premiums in course of collection amounted to \$5,000,000, of which \$4,400,000 was on policies effective on or after October 1, 1928. Interest due and accrued on bonds amounted to \$284,000 and the market value of stocks and bonds was \$31,700,000. The ledger assets exceed those at the close of the previous year by \$1,600,000.
Make up a statement of Income and Assets as of December 31, 1928, following in general the form prescribed by the National Convention of Insurance Commissioners.

11. How would you determine how much reserve to set up in the annual statement for unreported losses? What information would you request from the claim or statistical department to aid in the calculation?

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12. Bearing in mind that expense loadings for casualty insurance are based upon the New York Casualty Experience Exhibit what would be your reply to a question as to whether rates included a provision for investment expenses?
13. What form of reinsurance would you effect for automobile public liability, and why? For burglary and theft?
14. In considering an application for public liability insurance on an interurban bus line what information would you deem to be essential?
15. (a) Why is it particularly important that there be coordination between the claim department and the statistical department?
(b) If the statistical records for claims are not closed promptly what are some of the serious results?
16. Discuss a proposal that the standard limits for public liability policies be changed from 5/10 to 10/20.