BACON, FRANCIS
(Francis Lord Verulam)

THE ESSAYES, OR COUNCELS CIVILL AND MORALL

Newly enlarged

London 1625

Contemporary vellum binding

Book plates: W. A. Foyle and Anth. Highmore

In a morocco solander case

Purchased Inman 10-1-54 BSH.HH

BACON, SIR FRANCIS (Francis Lord Verulam)

THE ESSAYES OR COUNSELS, CIVILL AND MORALL,
OF FRANCIS LO. VERULAM, VISCOUNT ST. ALBANS.

London Printed by John Haviland for Hanna Barret, and Richard Whitaker, and are to be sold at the signe of the Kingshead in Paul's Church-Yard 1625

First complete edition of Bacon's essays and the last one to be published before his death in 1626. Twenty essays were added to the thirty-eight of the 1612 edition. There was another issue, S.Y., omitting Whitaker's name in the imprint.

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Bacon - Essayes

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L. Ph. Bacon. Essayes

cissitude, left we become Giddy. As for the *Philologs* of them, that is but a Circle of Tales, and therefore not fit for this Writing.

FINIS.

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Last edition amended by the Author

W.A. Taylor Catalogue

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Councels Civill and
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French, Netherlands chem. socs. Contbr. to Recueil des travaux chimiques des Pays-Bas. Address: 10 Bloemsingel, Groningen, Netherlands.

BACKHAUSZ, Richard, Hungarian physician, immunologist; b. Budapest, Hungary, May 3, 1920; s. Oscar and Helen (Juszák) B.; M.D., Med. U., Budapest, 1944; Specialist, Clin. Lab., Budapest, 1953; m. Emily Hartmann, Jan. 28, 1950; children—Beata, Cecilia, Marian, Ladislaus. Med. bacteriologist, immunologist Phylaxia State Inst. for Sera and Vacines, Budapest, 1946-54; sci. dir. Human Inst. for Serobacteriological Prodn. and Research, Budapest, 1954-—. Mem. Assn. Hungarian Microbiologists (sec.). Author: Immunodiffusion and Immunoelectrophoresis, 1966; also numerous articles. Editorial staff Immunochemistry, 1964-—. Devel. new methods for immunochem. analysis, including quantitative immunoelectrophoresis, 1958, determination of diffuse coefficient of antigens and antibodies using angular immunodiffusion, 1964, elaboration of immunogram to determine immunological state of organism, 1966. Home: 5 Muzeum, Budapest. Office: 5 Szállás, Budapest, Hungary.*

BACKLUND, Johan Oskar, astronomer; b. Lenghem, Sweden, Apr. 28, 1846; ed. Uppsala, also Stockholm, Sweden; apptd. lectr. U. Uppsala, 1875; became asst. Stockholm Obs., 1876; named observator Dorpat (Estonia) Obs.; later became adj. astronomer Pulkova (Russia) Obs., apptd. dir., 1895. Fellow Royal Soc., 1911. Mem. French Acad. Scis., 1895, St. Petersburg Acad. Sci. Research on progressive decrease in period of Encke's comet; formulated theory of disturbances. Died Pulkova, Aug. 30, 1916.

BACKMAN, Jules, Am. economist; b. N.Y.C., May 3, 1910; s. Nathan and Gertrude (Schall) B.; B.S. cum laude, N.Y. U., 1931, A.M., 1932, M.B.A., 1933, D.C.S., 1935; m. Grace G. Straim, Oct. 18, 1935; children—Susan Patricia (Mrs. Charles R. Frank Jr.), John Randolph. Statistician, Sydeman Bros., N.Y.C., 1932-33; v.p. Economic Statistics, Inc., N.Y.C., 1933-35; asso. economist SEC, 1935; research asso. Madden & Dorau, N.Y.C., 1936-37; faculty N.Y. U. Sch. Commerce, 1938-—, research prof., 1960-—. Cons. adviser to various govtl. agys. and to industry; editorial writer N.Y. Times, 1943-48; editor Trusts and Estates mag., 1938-46. Recipient N.Y. U. Meritorious Service award, 1943, Madden award, 1960, Presdl. citation, 1964. Hon fellow Am. Statis. Assn.; mem. Am. Econ. Assn., Indsl. Labor Relations Assn., Soc. Bus. Adv. Professions, Author: Adventures in Price Fixing, 1936; Government Price Fixing, 1938; Investment Dynamics, 1939; Rationing and Price Control in Great Britain, 1943; Price Control and Subsidy Program in Canada, 1943; Economics of the Potash Industry, 1946; Surety Rate-Making, 1949; Bituminous Coal Wages, Profits and Productivity, 1950; Economics of Armament Inflation, 1951; War and Defense Economics, 1952; Price Practices and Price Policies, 1953; Rate Policies and Rate Practices of the Post Office, 1954; Administered Prices, 1957; Wage Determination, 1959; The Economics of the Electrical Machinery Industry, 1962; Studies in Chemical Economics, 1965; (with M. R. Gainsbrugh) Economics of the Cotton Textile Industry, 1946, Inflation and the Price Indexes, 1966. Home: 59 Crane Rd., Scarsdale, N.Y. 10583.*

BACKSTRÖM, Johan Willem von, see von Backström.

BACKUS, George Edward, Am. geophysicist; b. Chgo., May 24, 1930; s. Milo Morlan and Dora (Dare) B.; Ph.B., U. Chgo., 1947, S.B., 1948, S.M. in Math., 1950, S.M. in Physics, 1954, Ph.D. in Physics, 1956; m. Elizabeth Evelyn Allen, Dec. 11, 1961; children—Benjamin Tom, Brian Nathaniel, Emily Anne. Junior mathematician Institute for Air Weapons Research, University of Chicago, Chicago, Illinois, 1951-53; physicist project Matterhorn, Princeton, 1957-58; asst. prof. math. Mass. Inst. Tech., 1958-60, asso. prof., 1960; asso. prof. geophysics, U. Cal., San Diego, 1960-62, professor of geophysics, 1962-—. Member American Academy Arts and Scis., Am. Geophys. Union, Am. Math. Soc., Am. Phy. Soc., Soc. Indsl. and Applied Math., Am. Seismol. Soc. Soc. Exploration Geophysicists, N.Y. Acad. Scis. Proof of existence of self-sustaining, dissipative homogeneous dynamos, analysis of effect of earth's rotation on long seismic waves and short seismic and ocean waves, seismic effects of anistropy, analytic solution of inverse seismic problem for travel times on Great Circles, nonlinear inverse problems. Home: 7687 Hillside Dr., La Jolla Cal. 92037.*

BACON, Francis (Baron Verulam, Viscount St. Albans), Brit. philosopher, statesman, essayist; b. London, Jan. 22, 1561; s. Sir Nicholas and Ann (Cooke) B.; ed. Trinity Coll., Cambridge, 1573-75; studied law Gray's Inn., London, 1576, 79-82; m. Alice Barnham, May 10, 1606. Attached to Brit. embassy, France, 1576; admitted as outer barrister, 1582; mem. Parliament, 1584-1621; became confidential adviser to Earl of Essex, 1591, later was influential in having him convicted of treason, 1601; unofcl. mem. Queen Elizabeth's Learned Council, circa 1596; paid court to James I, nominated to King's Council, 1603; apptd. commr. for arranging England's union with Scotland, 1604; became solicitor gen., 1607, atty. gen., 1613, privy councilor, 1616, Lord-keeper, 1617, Lord chancellor, 1618; convicted for bribery and corrupt dealing in chancery suits, but pardoned, 1621; spent remainder of life writing in retirement. Knighted, 1603, created Baron Verulam, 1618, Viscount St. Albans, 1621. Author: Essays, 1597-1625; Advancement of Learning, 1605; De Sapientia Veterum, 1609; Novum Organum, 1620; Historia Ventorum, 1622; History of Henry VII, 1622; De Augumentis Scientiarum, 1623; Apophthegms New and Old, 1625; The New Atlantis, pub. 1627; Maxims of the Law, pub. 1630; Reading on the Statute of Uses, pub. 1642; also others. Best remembered as essayist and as philosopher; his insistence on expt. and induction was very influential; opposed the a priori methods of medieval scholasticism and reliance on authority in determination of truth; believed that science should concern itself with the actual world which is apparent to the senses. and that laws of science should be established as generalizations drawn out of vast mass of specific observations; held that heat is motion; conceived the phys. universe as an aggregate of matter, form and motion; identified magnetic force and gravitation; held that light travels with finite velocity; recognized idea of conservation of mass; made many measurements of specific gravities; showed that salts lower melting point of ice; noted that given quantity of acid dissolves only a certain weight of metal and no more; studied plant fertilizers; noted that putrefaction may be retarded by such processes as exclusion of air, drying and smoking; suggested that southern tips of Africa and S. Am. were homologous formations, 1620; suggested creation of universal European lang., 1605; his ideas were influential in creation of Royal Soc., 1660. Died London, Apr. 9, 1626.

BACON, George Edward, English physicist; b. Dec. 5, 1917; s. George H. and Lilian A. Bacon; ed. Derby Sch.; Emanuel Coll., Cambridge (Eng.) U.; m. Enid Trigg, 1945; 1 son, 1 dau. With Air Ministry, Telecommunications Research Establishment, 1939-46; dept. chief sci. officer, Harwell, 1946-63; prof. physics U. Sheffield, from 1963; chmn. neutron diffraction commn. Internat. Union Crystallography. Mem. Inst. Physics, Am. Crystallographic Assn. Author: Neutron Diffraction, 1955; Applications of Neutron Diffraction in Chemistry, 1963; X-Ray and Neutron Diffraction, 1966. Research, publs. on X-ray and neutron crystallography, carbon optics. Home: 28 Whirlow Park Rd., Sheffield 11. Office: dept. physics Sheffield University, Sheffield 19, United Kingdom.

BACON, Harold Maile, Am. mathematician, educator; b. Los Angeles, Jan. 13, 1907; s. Robert H. and Lura (Maile) B.; A.B., Stanford, 1928, A.M., 1929, Ph.D., 1933; m. Rosamond Clarke, Feb. 23, 1946; 1 son, Charles Robert. Clk. actuary's dept. Pacific Mut. Life Ins. Co., Los Angeles, 1929-30; faculty math. Stanford, 1930-—, prof., 1950-—. Instr. math. San Jose State Coll., winter 1934-35. Fellow A.A.A.S.; mem. Math. Assn. Am. (bd. govs. 1941-43, 57-60, sec. No. Cal. sect. 1939-45, chmn. 1949-50), Am. Math. Soc., Nat. Council Tchrs. Math., Cal. Math. Council, Am. Assn. U. Profs., Phi Beta Kappa, Sigma Xi, Phi Delta Kappa, Theta Delta Chi. Author: Differential and Integral Calculus, 1942, 2d edit., 1955; (with C. G. Jaeger) Introductory College Mathematics, 1954, 2d edit., 1962. Home: P.O. Box 4144, Stanford, Cal. 94305.*

BACON, John Mackenzie, English meteorologist, astronomer; b. Lambourn Woodlands, Eng., June 19, 1846; s. John and Mary (Lousada) B.; ed. Trinity Coll., Cambridge; m. Gertrude Myers, Apr. 11, 1871; m. 2d, Stella Valentine, Oct. 7, 1903; 2 sons, 2 daus. Began a cleric, later became lectr. on astronomy, meteorology. Fellow Royal Astron. Soc., Brit. Astron. Assn. Author: By Land and Sky, 1900; The Dominion of the Air, 1902. Made numerous balloon ascents to carry out acoustical, meteorol., geog. studies; observed solar eclipse, 1898, took 1st animated photographs. Died Dec. 26, 1904.

BACON, Roger, Brit. scholar; b. Ilchester, Somerset, Eng., circa 1214; studied at Oxford U., circa 1230; possibly took holy orders, 1233; possibly M.A. from U. Paris, circa 1244. Lectured as regent master U. Paris, 1241-47, then devoted himself to research; returned to Oxford, circa 1251, assumed Franciscan habit; sent back to Paris, circa 1257; requested by Pope Clement IV to write gen. treatise on the sciences, 1266; his works were condemned by Franciscan council (either because he was suspected of dealing in black magic, or because of his intemperate attacks on some of his contemporaries), 1277; imprisoned, 1277/8-92; returned to Oxford, remained there until death. Author: (principal work) Opus Majus, 1268; Opus Minus, 1268; Opus Tertium, 1268; Compendium Studii Philosophiae, 1271; Compendium Studii theologiae, 1292. De mirabile potestate artis et naturae, (possibly spurious), pub. 1542; Often considered the forerunner of modern sci. method because of his firm and outspoken belief in experimentation and math., and his rejection of principle of truth by authority; attempted to write a universal ency. of knowledge; wrote treatises on grammar, logic, math., physics, alchemy and moral philosophy; experimented in optics; seems to have stated the laws of reflection and an approximation of the laws of refraction; gave rough explanation of the causes of rainbow; pointed out inaccuracy of Julian calendar; interested in alchemy, believed that gold could be made from base metals; one of 1st to suggest that medicine should make use of remedies provided by chemistry; 1st to describe gun-powder (though he was not inventor of it). Died circa 1294.

BACON, Selden Daskam, Am. sociologist, ed.; b. Pleasantville, N.Y., Sept. 10, 1909; s. Selde- Josephine (Daskam) B.; B.A. in History, Yale, M.A. in Govt., 1935, Ph.D. in Sociology, 193 Cornelia Howard, Dec. 20, 1935; 1 dau., C Anne (Mrs. Lewis Jamieson); m. 2d, Margaret May 25, 1946; children—Selden Daskam, McAlpine. Faculty sociology dept. Pa. State U., 39; prof. sociology, dir. sect. on alcohol studies summer sch. alcohol studies Yale, 1939-62; sociology, dir. Center Alcohol Studies, Rutgers, Brunswick, N.J., 1962-—. Mem. Conn. Com- Alcoholism, chmn. bd., 1945-59; mem. Commn. on Alcoholism, 1956-61, Nat. Safety C Commn. on Alcohol and Drugs, 1960-—; sec., Nat. Council on Alcoholism, 1945-50; bd. dirs. Assn. Alcoholism Programs, 1964-—, Coop. C on Study Alcoholism, 1962-—; mem. Nationa Com. on Alcoholism, 1966-—. Mem. Am. Assn., Eastern Sociol. Soc., Am. Criminologica A.A.A.S. Author: (with R. Straus) Drinking lege, 1953; Sociology and Problems of Foundations for a Sociologic Study of Drinki havior, 1944; also articles. Editorial bd. Quar Studies on Alcohol, 1948-—. Studies, publs. on ing customs, problems related to use of alcoh social attempts to meet or avoid them; pr demonstrations, information processing. Home: Lyle Rd., Princeton Junction, N.J. Office: Ce Alcohol Studies, Rutgers U., New Brunswick 08903.*

BADANOIU, Alexandru, Rumanian derma b. Tr. Magurele, Rumania, June 3, 1927; s. and Olimpia (Paunescu) B.; physician, U. B (Rumania), 1951; d.med.scis., Rumanian Acad Bucharest, 1960; m. Maria Penisoara, Feb. 5 Staff, Inst. Therapeutics, Rumanian Acad. Sc charest, 1951-60, lectr., 1958-60; lectr., he for biol., functional and exptl. dermatolog Dermato-Venerology, Bucharest, 1960-—; ass Faculty Medicine, U. Bucharest, 1955-64. Victor Babes prize for med. research Rumania Scis., 1965; medal for med. merit, 1963. Fe manian Dermatol. Soc., Internat. Assn. De gists. Author: (with St. G. Nicolau) Elem Pathophysiologic Dermatology, 1967; also articles. Research in microbic allergy of skin lar allergy, immunopathology of skin, and immunity, pathophysiology of skin, exptl. c ogy, immunodiagnosis and therapeutics of Home: 35, Bd Magheru. Office: Centrul Venerologic, str. Dr. Grozovici nr. 1, Bucha mania.*

BADARAU, Eugen, Rumanian physicist; b univ. prof.; dir. Inst. Physics, Bucharest, mem. Acad. Socialist Republic Rumania. Physics of Discharges in Gases, 1957. C Ionizing Gases, 2 vols., 1963, 65. Helped mechanism of luminescent and arc discharg

BADDILEY, James, English chemist; b. M Eng., May 15, 1918; son of James and I (Cato) B.; B.Sc. with 1st class honors, U. M 1941, M.Sc., 1942, Ph.D., 1944, D.Sc., Hazel Mary Townsend, Sept. 20, 1944; 1 s topher James. Sir Clement Royds Meml. s Manchester, 1942, Beyer fellow, 1943-4 Swedish Med. Research Council, Stockholm, staff Lister Inst. Preventive Medicine, Lond 1949-54; Rockefeller travelling fellow, 19 organic chemistry U. Newcastle upon Tyne U. Durham), 1955-—. Mem. adv. bd. Britis al Com. for Biochemistry, 1961-66; mem. G Bd. Royal Soc., 1962-66; also mem. co Folkers lectr., 1962. Recipient Meldola me Institute of Chemistry, 1947. Fellow Royal S (Leeuwenhoek lecturer 1967); fellow Royal burgh, Chem. Soc. (past mem. council, Cord medal and prize 1952, Tilden lectr. 1959); chem. Soc. (mem. com. 1964), Soc. for G biology. Research, numerous publs. on r penicillin, pyridoxal phosphate, active methi synthesis, nucleotide coenzymes, carbohydr terial cell walls, microbiol. chemistry. Wolsington Park S., Woolsington, Newca Tyne, Eng.*

BADEN, Martin William, Am. geologist, engr.; b. Independence, Kan., Nov. 25, 187 Peter and Adelaide Elizabeth (Ballein) Southwestern Coll., Winfield, Kan., 19 (hon.), U. Pitt ., 1930; m. Grace Curnett 1900; 1 dau., Adelaide Elizabeth (Mrs. F Barnard). Cons. geologist, owner, operator Baden Research & Testing Lab., Winfield, v.p., geologist Trees Oil Co., 1921-31; engr. Boeing Airplane Co., Wichita, Kan., geologist Kanetex Refining Co., Arkansas 1945-46, Consol. Gas Utilities Corp., Okla 1946-47; cons. petroleum geologist, engr. Kan., 1947-57. Recipient Meritorious Con Wichita sect. Am. Chem. Soc., 1954. R problems in colorimetric chemistry, finding through use of scintillation radio counte or patentee ozone producing equipment fo wheat flour, 1st x-ray equipment in Kan., against corrosion in iron pipe; duplicating