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**A SELECTION OF BOOKS TO BE EXHIBITED AT THE  
HISTORY OF SCIENCE SOCIETY MEETING  
ATLANTA, NOVEMBER 3-5, 2016**

Full collations, descriptions, and bibliographical details are available for all items listed

**DARWIN'S LEADING AMERICAN OPPONENT**

**AGASSIZ, Louis.** *An essay on classification.* London: Longman, Brown, Green Longmans, & Roberts and Triebner, 1859. 8vo. Original pebbled cloth. First edition. Printed a few months prior to Darwin's *Origin*, this work represents an entirely opposite interpretation of nature. Agassiz was convinced that different organisms arose by a series of independent and special creations, which precluded all possibility of genetic continuity between species; "man, like other animals, were of distinct types of species and were marked by different physical and intellectual traits." \$ 550.00

**THREE RARE SCIENTIFIC WORKS FROM ARISTOTLE**

**ARISTOTLE.** *Aristotelis stagyrtae acroases physicae libri VIII. (bound with) Aristotelis stagyrtae libri de coelo III . . . libri de generatione II . . . libri meteororum III. (bound with) Aristotelis stagyrtae philosophi de anima libri III . . . de sensu & sensato liber I; de memoria & reminiscencia liber I; de somno & vigilia liber I; de longitudine & breuitate vitae.* Augsburg: Grimm & Wirsung, 1518; 1519; 1520. Three books in one. Folio. First title page in red and black; heraldic woodcuts on second and third titles. Final leaf, with large woodcut of Saint Catherine on colophon, is in facsimile on contemporary paper. Old vellum. Includes Aristotle's scientific works on the motion of heavenly bodies, his physics, meteorology, on the process of birth and generation, and on the soul of man. \$ 8500.00

**PRESIDENT OF THE ROYAL SOCIETY**

**[BANKS, Joseph].** *Sir Joseph Banks and the Royal Society. A popular biography, with an historical introduction and sequel.* London: John W. Parker, 1844. 16mo. Publisher's blind-stamped cloth. Bookplates of Arnold Thackray and English physicist E.N. da C[osta] Andrade (1887-1971), Quain Professor of Physics at University College, London, and Fullerian Professor of Chemistry at the Royal Institution. First and only(?) edition. This petite biography of Banks, written by an anonymous author, also includes a short history of the Royal Society. Banks served as the Society's President for over 41 years. \$ 250.00

**COINING THE TERM "GENETICS"**

**[BATESON, William]. WILKS, Rev. W.** *Report of the third international conference on genetics: hybridisation (the cross-breeding of genera or species), the cross-breeding of varieties, and general plant-breeding.* London: Printed for the Royal Horticultural Society by Spottiswoode & Co., 1906. 8vo. With 130 photographic plates. Contemporary cloth. First edition of the publication of the papers presented at this important conference, the first ever on genetics, attended by scientific leaders from around the world. This is also the first time that the word "genetics" was used in print (Bateson used it in his presidential address to this conference to describe the study of inheritance). The result of this conference was the official creation of genetics as a discipline in the institutional sense, with a name and a clearly international network. \$ 250.00



FIG. 23.—GREGOR JOHANN MENDEL.  
From a photographic group taken about 1868.

### THE FIRST TEXTBOOK ON GENETICS

**BATESON, William.** *Mendel's principles of heredity.* Cambridge: at the University Press, 1909. 8vo. Original cloth. Second edition, with a note to second impression; significantly revised and enlarged from the original 1902 publication. This detailed study of color, gametic coupling, spurious allelomorphism, heredity and sex further interprets Mendel's data and proves that Mendelian behavior holds for animals as well as plants. \$ 350.00



### PRECISION BOMBING

**BELIDOR, Bernard Forest de.** *Le bombardier François. Ou nouvelle methode de jeter les bombes avec precision.* Paris: de l'Imprimerie Royale, 1731. 4to. Engraved frontispiece plus 8 folding engraved plates showing mortars, rockets, explosive charges, fireworks, etc. Contemporary calf. First edition. An essential work for use in combat, containing systematic firing tables. The exquisite illustrations show the different type of canon, bullets and mortars, loading material, and additional swagger that can be used. \$ 750.00

### EXPERIMENTAL MEDICINE

**BERNARD, Claude.** *Introduction a l'étude de la médecine expérimentale.* Paris, et al.: Baillière, 1865. 8vo. Original printed wrappers, bound into contemporary morocco-backed marbled boards. First edition of a masterpiece in the history of modern medicine. The *Introduction* contains an analysis of his experimental methods in physiology, which contributed to advances of the greatest significance in biology and other sciences. *Printing & the Mind of Man*, 353. \$ 1500.00

### MONUMENTAL WORK IN COMPARATIVE ANATOMY AND HUMAN DEVELOPMENT

**BLUMENBACH, J[ohann] F[riedrich].** *Handbuch der vergleichenden Anatomie.* Göttingen: H. Dieterich, 1805. 8vo. With 8 engraved plates. Original boards. First edition. Blumenbach believed that an organism's morphology was capable of being modified by the environment and that the resultant changes were inherited. He argued that zoological classification should be based on structures associated with an animal's specific functions. \$ 1200.00

### GREAT ASSOCIATION COPY

**BOOLE, George.** *A treatise on differential equations.* Cambridge and London: Macmillan and Co., 1865. 8vo. With 1 folding plate. Original publisher's cloth; a fine copy from the library of George Howard Darwin. Second edition, revised (first printed in 1859), of Boole's volume on symbolic logic. George Darwin, the second son of Charles and Emma, was the Plumian professor of astronomy and experimental philosophy at Cambridge, and president of the Royal Astronomical Society. \$ 600.00

### ORIGINAL THEORY OF CONIC SECTIONS AND THE FOUNDATION OF THE LAWS OF CONTINUITY

**BOSCOVICH, Roger Joseph.** *Elementorum universae matheseos.* Venice: Antonium Perlini, 1757. Three volumes. 8vo. With 15 folding plates. Contemporary vellum-backed soft boards; an uncut copy with very wide margins. Boscovich's great textbook on mathematics, originally printed in Rome, 1752 in two parts, with a third part added in 1754. This work formed the foundation of his best-known *Philosophiae naturalis theoria redacta* printed the following year. It includes a profound discussion of the law of continuity, which was further clarified in the *Philosophiae naturalis*. \$ 3500.00

**DEMONSTRATING GENERAL OCCURRENCE OF THE NUCLEUS IN PLANT CELLS**

**BROWN, Robert.** “On the organs and mode of fecundation in Orchideae and Asclepiadeae.” From: *Transactions of the Linnean Society*, XVI, part III, pp. 685-743. London: Richard Taylor for the Linnean Society and Longman, Rees, Orme, Brown, Green and Longman, 1833. 4to. With 3 engraved plates by James de Carle Sowerby. Cloth-backed boards. First edition, second printing; first printed for private distribution in 1831 under the title “Observations on the organs and mode of fecundation in Orchideae and Asclepiadeae.” Brown’s paper may be said to have established the concepts of the nucleated cell as the unit of structure in plants.” \$ 950.00

**INDUCTIVE CAPACITY OF CHARGED BODIES**

**CAVENDISH, Henry. MAXWELL, J. Clerk.** *The electrical researches . . . written between 1771 and 1781, edited from the original manuscripts by J. Clerk Maxwell.* Cambridge: At the University Press, 1879. 8vo. Original cloth. First edition of Cavendish’s experiments in electrical science and fluid mechanics. \$ 1200.00

**ELUCIDATING THE BASICS OF CHEMISTRY**

**COMSTOCK, J. L.** *A grammar of chemistry, adapted to the use of schools and private students, by familiar illustrations and easy experiments.* Hartford: S. G. Goodrich, 1825. 12mo. Contemporary mottled calf. With the bookplate of the Essex Institute on the paste-down, and the signature of Francis Peabody on the fly-leaf. Second edition, which still pre-dated the author’s immensely popular *Elements of Chemistry* by several years. Following the text are 27 pages of questions for the purpose of testing on the information that was presented – hope you were paying attention! \$ 125.00



**HOW TO PRACTICE ASTROLOGICAL HERBALISM**

**CULPEPER, Nicholas.** *The English physician enlarged with three hundred and sixty nine medicines made of English Herbs, that were not in an impression until this. . . .* London: Printed for the Booksellers, 1785. 12mo. Contemporary calf. Culpeper’s popular work explained how the planet associated with each herb is used symbolically to derive its medicinal use. In order to gain knowledge of the herb, one is expected to contemplate the symbolic associations of each planet – parts of the body, humoral correspondence, temperature, etc – in relation to the listed indications to see how the herb can be used. \$ 650.00

**FIRST FRENCH EDITION**

**DARWIN, Charles.** *Des différentes formes de fleurs dans les plantes de la même espèce.* Paris: C. Reinwald, 1878. 8vo. Woodcut illustrations and tables in text. Original cloth; an excellent copy, uncut and unopened. First edition in French of the author’s important work on the adaptation of plants. Darwin’s work on heterostyled plants bears on one of the most difficult points in the statement of the case for evolution, the sterility of interspecific crosses and of hybrids. \$ 350.00

**WITH A FASCINATING LETTER FROM THE DAUGHTER OF JAMES KEIR**

**DAVY, John.** *Memoirs of the life of Sir Humphry Davy. By his brother.* London: Smith, Elder and Co., 1839. 8vo. Original cloth decorated in blind. The first of the collected works of Sir Humphry Davy, and the only volume to have a memoir of his life by his brother. The letter is from Amelia Keir Moilliet (Abberley Hall, 1856) to her grandson concerning his great grandfather, the geologist, industrialist and inventor James Keir. She discusses, among other matters, her father’s first meeting and relationship with Sir Humphry Davy. \$ 550.00

**TRANSPARENCY REGARDING FAMOUS THERMAL SPAS**

**DUCCINI, Giuseppe.** *De' bagni di Lucca trattato chimico, medico, anatomico.* Lucca: Appresso Pellegrino Frediani, 1711. 8vo. Contemporary vellum; an excellent copy. First edition of this excellent work on the famous thermal waters of Bagni di Lucca. Located near Florence, the spas at Bagni di Lucca have been the go-to resort for rest and restoration for centuries. The author describes the natural properties and wonderful virtues of the waters. His book becomes a fascinating journey into the characteristics and the chemical composition of the spas, including everything from the geology of the area to the architecture of the buildings, as well as which diet is appropriate before bathing. \$ 2500.00

**GENERAL RELATIVITY  
FROM THE LIBRARY OF A NAZI SYMPATHIZER**

**EINSTEIN, Albert.** *Die Grundlage der allgemeinen Relativitätstheorie.* Leipzig: J. A. Barth, June, 1916. 8vo. Original printed wrappers on rippled paper. An uncut copy, ownership signature on the front wrapper, preserved in a half-morocco solander box. First separate printing of Einstein's classic paper. Not an offprint from the *Annalen der Physik* as is often thought, but a completely new setting of type with significant and important additions and revisions, including an introduction published here for the first time which was not in the journal issue. From the library of Dr. Sten Lothigius, Swedish physicist with an affinity to the Nazi movement, an anti-Semite who wrote against the theory of relativity and Einstein. His book, *Esquisse d'une theorie nouvelle de la lumiere (Sketch of a new theory of light)*, 1920, is noted in Christopher Jon Bjerkness, *The manufacture and sale of Saint Einstein* (see the website jewishracism.com). \$ 8500.00

**TWO EARLY DESCRIPTIONS OF SYPHILIS**

**FALLOPIUS, Gabriel.** *De morbo gallico [sic] liber absolutissimus a Petro Angelo Agatho Materate, (eo legente) scriptus . . . edits et scholiis marginalibus illustratus. Additus etiam est in calce de Morbo Gallico tractatus, Antonii Fracanciani Bononiae in loco eminentis scientiae faeliciter legentis.* Patauii: Lucam Bertellum; Christophorum Gryphium, 1564; 1563. Two works in one. 4to. Half-calf with paper boards. First edition of two rare treatises on syphilis. Fallopius wrote more knowingly of the Europe-wide scourge of syphilis than previous authors and was one of the first to oppose the use of mercury in its treatment. He here asserts his belief that syphilis was brought to Europe from America by the associates of Columbus, and strongly recommends the use of guaiac wood for its cure. The second treatise on the same subject is by Fracanzano, a professor of medicine at Padua. \$ 12,000.00

**PSYCHICAL PHENOMENA FINALLY EXPLAINED**

**FLAMMARION, Camille.** *The unknown.* New York: Harper & Brothers, [1900]. 8vo. Original publisher's cloth, and in the original dust jacket. First edition in English of this pioneering work on the psychic. "Telepathic communications, premonitory dreams, mental suggestion, the workings of the human brain – all are explained, with numerous illustrations from real life, in this scientific book." Various chapters discuss incredulity and credulity, telepathic communication made by the dying and of apparitions, the psychic action of one mind upon another, and the world of dreams. Great stuff! \$ 350.00



**SURVEYING IN THE AGE BEFORE LOGARITHMS - -  
THE FIRST FRENCH PATENT FOR AN INVENTION**

**FOULLON, Abel [Fullon, Fullone].** *Descrittione, et uso dell'holometro. Per saper misurare tutte le cose, che si possono veder coll'occhio cosi in lunghezza, & larghezza; come in altezza & come in altezza & profondita .* Venice: Giordano Ziletti, 1564. 4to. With 16 engravings. Old limp vellum. First Italian edition (after the first French edition of 1555) on the author's newly invented quadrant for geometrical measuring and surveying. The device, which he named holometre, resembled a cross-staff, and was mainly intended for the delineation of cartographical maps and surveying. However, and of great interest, the instrument gave instant results, without the need for calculations. It is for this invention that Henry II granted the first ever patent in France to Foullon. \$ 5000.00

**RARE ASTRONOMY WORK FROM A GREAT ITALIAN RENAISSANCE HUMANIST**

**[GABRIELE, Tryphon] GABRIELE, Giacomo.** *Dialogo di M. Iacomo Gabriele nel quale de la sphaera, et degli orti et occasi de le stelle, minutamente si ragiona.* [Colophon: Venezia: Giovanni Griffio, Giovanni Ferri e fratelli, 1545]. 8vo. Later vellum; an excellent copy. First and only edition of this rare treatise written in the form of a dialogue between some of the most prominent humanists and philosophers in the Italian Renaissance. Tryphon Gabriel (1470–1549), known as the Venetian Socrates, here identifies astrology as the most noble and true science; his eclectic perspective occupies the boundary between the philosophies of Plato and Aristotle. Tryphon, practically unknown for his interest in the sciences, is well known for collaborating with his dearest friend Cardinal Pietro Bembo in the codification of the Italian language. Further, the work is of particular interest inasmuch as Tryphon did not publish any of his own writings during his lifetime. That was left to Giacomo Gabriele (1510–1550), Tryphon’s nephew and heir, who has created the critical edition of his uncle’s work on astronomy, astrology, theology and philosophy. It is a timely publication, discussing the validity of early theories of astrology in light of Renaissance approaches to science, especially given the recently published *De revolutionibus* by Copernicus. \$ 5500.00

**THE MONUMENTAL FLORENTINE TRIBUNA TO GALILEO**

**GALILEO [ROSINI, Giovanni].** *Descrizione della tribuna inalzata da sua Altezza Imp. e reale il Granduca Leopoldo II alla memoria di Galileo.* Firenze: Luigi Bardi. 1841. 4to. With 15 copperplate engravings. Original printed wrappers. First edition. Leopold II, Grand Duke of Tuscany, established the most tolerant reign of the Italian states. From 1839–1841 Leopold allowed the Congress of Italian Scientists to take place in Pisa and Florence, despite Vatican opposition. At the end of the Congress, the monument, Tribune to Galileo Galilei, was unveiled to the public. The Tribuna represents a rare example of Florentine Neoclassical architecture, which is vividly described. As the monument has been restored recently, this work offers a unique chance of taking a look of the original composition of the tribute paid to Galileo.



\$ 450.00

**INHERITED TALENTS: NATURE VS. NURTURE?**

**GALTON, Francis.** *English men of science: their nature and nurture.* London: Macmillan & Co., 1874. 8vo. Original cloth. First edition. Galton circulated a questionnaire among a select group of the Royal Society. In attempting to better analyze the inheritance of various talents, he wanted to evaluate the role of the environment in which these men were raised (their *nurture*), and balance it against the inherent abilities with which they were endowed (their *nature*). Still a hotly contested topic. \$ 400.00

**EARLY JESUIT ANTI-COPERNICAN VIEWS**



**GRANDAMI, Jacques.** *Nova demonstratio immobilitatis terrae petita ex virtute magnetica.* La Flèche: Geroge Griveau, 1645. 4to. With 7 plates and 24 text engravings. Contemporary vellum. First and only edition of a fascinating work on magnetism, notable not only for the author’s anti-Copernican and anti-Galilean views, but also as a history of the magnet. Grandami uses his own theories, including results of his experiments, on terrestrial

magnetism in an attempt to prove the immobility of the earth. Grandami, a French Jesuit physicist and astronomer, was dean of the college at La Flèche, where Descartes was schooled and the site of the main Jesuit press. He corresponded with Descartes, Huygens and Mersenne, and made detailed observations of comets of 1664 and 1665, which caused much religious and academic debate. \$ 9500.00

### EVERYTHING YOU WANTED TO KNOW ABOUT OPTICS

**GRIFFIN, William N.** *A treatise on optics.* Cambridge: Printed at the University Press, 1838. 8vo. With 8 plates. Contemporary half-calf over cloth boards. First edition. In a series of short chapters, Griffin defines properties and dispersion of light, and treats all aspects of reflection and refraction. He then delves much deeper into the mathematical properties of light rays, as well as geometrical and physical optics. A large section is devoted to vision optical instruments, with a final piece on rainbows. \$ 450.00

### THREE VALUABLE PAPERS; ALL PRESENTATION COPIES

**HAECKEL, Ernst.** *System der Siphonophoren auf Phylogenetischer Grundlage entworfen. (with) Plankton-Composition. (with) Die cambrische Stammgruppe der Echinodermen.* Three original offprints, each from *Jenaische Zeitschrift für Naturwissenschaft*, 1888; 1892; 1895. Presentation copies. First editions of these zoological monographs, which contained reports of thousands of new species of lower marine animals, most gathered on the Challenger expedition. \$ 2500.00

### ENABLING LONG-DISTANCE TELEPHONE SERVICE

**HEAVISIDE, Oliver.** *Electrical papers.* New York and London: Macmillan and Co., 1894. Two volumes. 8vo. Text illustrations. Original publisher's cloth; an exceptionally good copy. Scarce second edition of Heaviside's collected works in all aspects of practical and theoretical electricity. He deals with "theoretical aspects of problems in telegraphy and electrical transmission, making use of an unusual calculatory method called operational calculus, now better known as the method of Laplace transforms, to study transient currents in networks" (*Encyclopedia Britannica*). \$ 1500.00

### FIRST EDITION OF HERTZ' COLLECTED WORKS

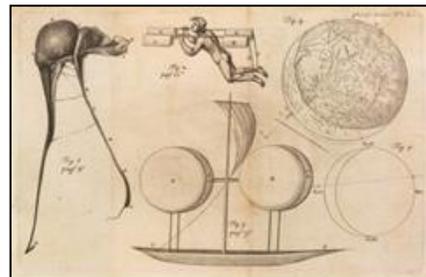
**HERTZ, Heinrich.** *Gesammelte Werke.* I. *Schriften vermischten inhalts*; II. *Untersuchungen über die ausbreitung der elektrischen kraft*; III. *Die prinzipien der mechanik in neuem zusammenhange dargestellt.* Leipzig: Johan Ambrosius Barth, 1895-1894. Three volume. 8vo. With frontispiece portrait, large folding plate, and 40 text illustrations. Generally a good clean set from the library of Stillman Drake. First edition of Hertz' collected works, containing 22 of his papers, the second edition of *Untersuchungen ueber die Ausbreitung der elektrischen Kraft*, his treatise on electric waves, and the actual first printing of *Die prinzipien der mechanik*, one of the classic works of nineteenth-century philosophy of science. \$ 850.00

### HOOKE'S SUPPLEMENT TO THE MICROGRAPHIA

**HOOKE, Robert.** *Lectures and collections.* London: J. Martyn, 1678. 4to. With 5 folding engraved plates; an excellent copy, crisp and clean, in modern polished calf. First edition of one of the very rare volumes of the author's lectures which Sir John Cutler initiated in 1664 for his benefit. Hooke, whose genius threw a gleam of light on every subject of physics which engaged his attention, gives here some remarkable supplements to his *Micrographia*. Miscellaneous contributions from Boyle, Halley, Cassini, Gassendi, Hevelius, and others are included. Of particular interest is the letters Leeuwenhoek communicated to the Royal Society concerning microscopical discoveries, including an account of the "little animals" he had found in pepperwater (protoza and bacteria). \$ 12,500.00

### THE INTERIM PHILOSOPHICAL TRANSACTIONS

[**HOOKE, Robert, ed.**] *Philosophical collections, containing an account of the physical; anatomical, chymical, mechanical, astronomical, optical, or other mathematical and philosophical experiments and observations as have lately come to the publisher hands. . . .* London: [John Martyn], Moses Pitt, and Richard Chiswell, 1679-82. Seven issues (all published) in one volume. 4to. With 7 engraved plates. Contemporary marbled boards. First edition of the complete *Philosophical collections*, printed in a very small edition, and now exceptionally rare. The death of the Royal Society's secretary, Henry Oldenburg, in 1677 interrupted the publication of the *Philosophical transactions*. These scientific papers, edited by Hooke, were issued to fill the void until it



resumed again in 1682. Included are contributions by Hooke, as well as Leeuwenhoek’s announcement of the “discovery of spermatozoa”; Lana’s “flying chariot”; Tyson’s *Anatomy of a porpess* (sic); and astronomical observations by Hevelius, Flamsteed, and Cassini on the eclipse of Jupiter by the moon in 1679 and 1681. In addition, discoveries by Moxon, Malpighi, Thomas Burnett, Edmund Halley, Bernoulli, and Leibniz are included. \$ 24,000.00

**DARWIN’S INSPIRATION**

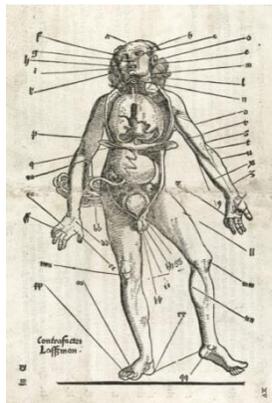
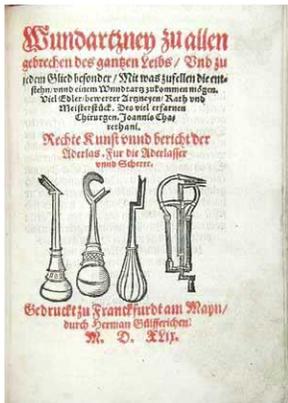
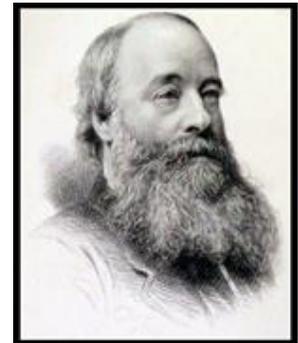
**HUMBOLDT, Alexandre de.** *A geognostical essay on the superposition of rocks, in both hemispheres.* London: Longman, Hurst, Rees, Orme, Brown, and Green, 1823. 8vo. Contemporary cloth. First edition in English. The present book is Humboldt’s most significant work in geology, in which he treats the superposition of rocks, and introduces the names “Jurassique” and “Jura formation.” \$ 850.00

**THE MOST COMPREHENSIVE COLLECTION OF HUYGENS’ WORKS**

**HUYGENS, Christian.** *Opera reliqua. (with) Opera posthuma.* Amsterdam: Janssonio-Waesbergios, 1728. Two works in one. 4to. With 58 folding engraved plates. Contemporary calf. First edition, edited by ’sGravesande. This set contains Huygens’ works on gravity and accelerated motion, the laws of elastic bodies, and the undulatory theory of light, perhaps his most important achievement. Also included are his tracts on optics, instructions on grinding lenses for telescopes, and a description of the Planetary Automate machine he constructed portraying the movements of the solar system. This machine, as well as a number of other innovations and discoveries, are all depicted in the finely engraved illustrations. \$ 8500.00

**THE NATURE OF HEAT**

**JOULE, James Prescott.** *The scientific papers.* London: The Physical Society of London, Taylor & Francis, 1884; 1887. Two volumes. 8vo. Frontispiece portrait, 7 plates, 1 large folding table, and numerous text illustrations. Original cloth. First edition of Joule’s collected works, containing the first appearance in a book of his most valuable paper, *On the caloric effects of magneto-electricity*, as well as his famous treatise, *The mechanical value of heat*. Also included are details of projects which he carried out in association with Scoresby, Playfair, and William Thomson. \$ 850.00



**EARLY ANATOMICAL WOODCUTS**

**KETHAM, Joannes de.** *Wundartzney zu allen Gebrechen des gantzen Leibs.* Frankfurt am Mayn: Herman Gylfferichen, 1549. 4to. With 4 large woodcut instruments on title, a large double page wound-man woodcut, and small woodcut of a zodiac man. Old German pasteboards. Early edition of this rare surgical treatise containing the first detailed anatomical illustrations ever printed. \$ 12,500.00



**THE FATHER OF DEVELOPMENTAL PHYSIOLOGY**

**KLEBS, Georg.** *Willkürliche Entwicklungsänderungen bei Pflanzen.* Jena: Gustav Fischer, 1903. 8vo. Contemporary quarter-morocco. First edition of Klebs’ work on the growth of plants. \$ 200.00

**THE FOUNDATION OF ANALYTIC MECHANICS**

**LAGRANGE, Joseph Louis.** *Mécanique analytique.* Paris: Mme. Ve Courcier, 1811-1815. Two volumes. 4to. Contemporary prize binding. Second edition of the author's masterpiece which laid the foundation of modern mechanics. It contains the discovery of the general equations of motion, the first epochal contribution to theoretical dynamics after Newton's *Principia*. The book is divided into two parts: statics and dynamics, each of which addresses the subdivisions of solid bodies and fluids. \$ 2500.00

**LINK, [Johann] H[einrich] F[riedrich].** *Grundlehren der anatomie und physiologie der pflanzen.* Göttingen: Justus Friedrich Danckwerts, 1807. 8vo. With 6 folding plates. Contemporary boards. First edition of the author's first work. His fundamental principles of the anatomy and physiology of plants proved for the first time that plant cells existed independently and were not part of a homogeneous vegetable mass. \$ 1200.00

**A NEW APPROACH TO DEALING WITH DEATH**

**MACKENNA, Robert W.** *The adventure of death.* New York: G.P. Putnam's Sons, 1917. 8vo. In the original printed dust jacket; an excellent copy. First American edition. In chapters dealing with human fear, philosophy and poetry, religion, and survival of the soul, Mackenna, a physician, responds to questions that everyone might have as it relates to death. \$ 150.00

**VALUABLE MATHEMATICS SAMMELBAND**

**[MATHEMATICS].** Six papers bound together in contemporary half-calf and marbled boards. **1. DEDEKIND, Richard.** *Was sind und was sollen die Zahlen.* Braunschweig: Vieweg and Son, 1888. First edition, rare, of Dedekind's important work on set theory. **2. FISCHER, Otto.** *Konforme abbildung sphärischer dreiecke auf einander mittelst algebraischer funktionen.* Leipzig: von Metzger & Wittig, 1885. First edition of the author's thesis on conforming images of spherical triangles by means of algebraic functions. **3. PHRAGMÉN, E[dvard].** *Über die Berechnung der einzelnen Glieder der Riemann'schen primzahlformel.* Stockholm: Kongliga vetenskaps-Akademiens Förhandlingar, 1891. First edition of this famous work on the calculation of the individual members of the Riemann prime number formula. **4. NEUMANN, Carl.** *Ueber den Satz der virtuellen verrückungen; Ueber das princip der virtuellen oder facultativen verrückungen.* [Leipzig: von Breitkopf und Härtel, 1869]. Two separate papers on virtual displacements. **5. LERCH, M[atyaš].** *Contributions à la théorie des fonctions; Addition au mémoire présenté dans la séance du 15 Octobre* [Prag, 1886]. Two separate papers. With a 4 page letter containing mathematical symbols handwritten by Lerch to Karl Weierstrass tipped in. First printings of Lerch's contributions to general mathematical functions. **6. MÉRAY, [Hugues Ch[arles Robert].** *Théorie des radicaux fondée exclusivement sur les propriétés générales des séries entières.* Dijon, Darantiere, [1885]. Title page in manuscript signed by Méray and dated Dijon, 1891. With annotations throughout probably by the author for another edition. First edition of Méray's famous work, *Radical theory based exclusively on the general properties of power series.* \$ 10,500.00

**“UNSURPASSED IN NEWTON BIOGRAPHY”**

**[ISAAC NEWTON]. ROSENBERGER, Dr. Ferd[inand].** *Isaac Newton und seine physikalischen principien. Ein hauptstück aus der entwicklungsgeschichte der modernen physik.* Leipzig: Johann Ambrosius Barth, 1895. 8vo. With 25 text diagrams. Original cloth-backed marbled boards; in excellent condition. From the libraries of Stillman Drake and E.N. Da C. Andrade. First edition and surprisingly quite scarce. The author provides a detailed description of the state of physical optics up to the point when Newton's interest propelled him into conducting research in the field. He further explains the underlying concepts of the *Opticks*, including the various theories in opposition to those taken by Newton, and finally discusses Newton's transition from work in optics to celestial mechanics. \$ 750.00

### THE SOLVAY CONFERENCES

[NOBEL SCIENTISTS]. **LANGEVIN, P. & DE BROGLIE, M. (Editors)**. *La théorie du rayonnement et les quanta. (offered with) Électrons et photons*. Paris: Gauthier-Villars, 1912; 1928. 8vo. Recent cloth. From the library of Martin J. Klein, professor of the history of science at Yale, and the first recipient of the Abraham Pais Prize for the History of Physics. First editions. The publications that resulted from the first and fifth Solvay Conferences of 1911 and 1927 contains papers presented by Einstein, Sommerfeld, Langevin, Nernst, Marie Curie, Perrin, Planck, Jeans and Lorentz, among others. The fifth Solvay conference was perhaps the most famous, as it included luminaries such as Nobelists Einstein, Bohr, Bragg, Compton, Dirac, Schrodinger, Curie, De Broglie and Heisenberg. This was also the beginning of the Bohr-Einstein debates, a series of public disputes about quantum mechanics. \$ 5500.00

### THE FIRST MONOGRAPH ON EXPERIMENTAL TERATOLOGY

**PANUM, Peter Ludwig**. *Untersuchungen über die Entstehung der Missbildungen zunächst in den Eiern der Vögel*. Berlin: Reimer, 1860. 8vo. With 12 full-page plates, each with numerous figures (many in color). Cloth-backed boards; an excellent copy, mostly unopened. First edition of the first book on experimental teratology, based largely on work involving chickens (beginning at the level of the embryo). Influenced by “the French school of vivisectionist physiology,” Panum’s embryological studies and teratology research reflected an intense contemporary interest in the subject of malformations. \$ 950.00

### PAULI MANUSCRIPT

#### WORKING OUT PROBLEMS AT EINSTEIN’S REQUEST

**PAULI, Wolfgang**. *Manuscript*. Three pages on two 8 ½ x 11 in. leaves. In German. Princeton, NJ: no later than 1945. The calculations in the first two pages relate to Einstein’s general theory of relativity. In a paper of June 19, 1945, Einstein had suggested a generalization of the mathematical foundations of general relativity, proposing to generalize the theory such that distances in space would be invariant (unchanging) not only under changes of the frame of reference (as in the original theory) but also under so-called Hermitian transformations. Pauli notes for Einstein (both were at the Institute for Advanced Studies at the time) that a restriction to Hermitian transformations is problematic, and he suggests an even more general transformation group,

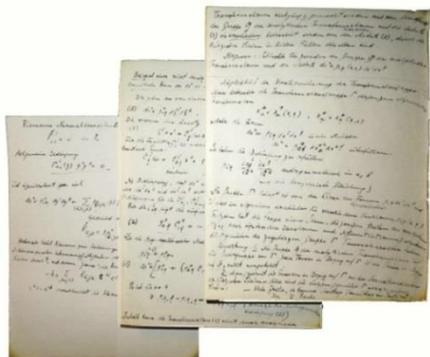
and thereby provides a generalization of the alleged structure of space and time that goes further than that proposed by Einstein. The third page, also in Pauli’s hand, is not directly related to the preceding pages, even though it, too, contains differential geometric calculations, related to curvature of spacetime and which paths through spacetime are the straightest ones. \$ 65,000.00

### VALUABLE WORK ON COMETS

**PINGRÉ, [Alexandre Gui]**. *Cométographie ou traité historique et théorique des comètes*. Paris: L’Imprimerie Royale, 1783–84. Two volumes. 4to. With 7 engraved plates. Contemporary mottled calf. First edition. The text is divided into four parts: a history of astronomy dating from ancient Babylon and Egypt through the eighteenth century; a catalogue of all the comets observed since antiquity with orbital elements of 166 for which paths had been computed (50 by Pingré himself); cometary returns and their physical effects upon the earth; and the methods for computing cometary orbits. \$ 4500.00

### THE FAMOUS THEORY OF POTENTIAL FALSIFIABILITY

**POPPER, Karl R.** *The logic of scientific discovery (Logik der Forschung)*. London: Hutchinson, 1959. 8vo. A superb copy in the original dust jacket. First edition in English translated by the author from the original German. This book is a classic in philosophic epistemology in which Popper argues that scientific theories can never be proven, merely tested and corroborated. It is here that Popper first introduced his famous solution to the problem of induction. \$ 500.00



**GREEK MATHEMATICS IS MORE THAN “CLASSICAL GEOMETRY”**

**PTOLEMAEUS, Claudius.** *Liber de analemmate, a Federico Commandino Urvinatè instauratus, & commentariis illustratus, qui nunc primum eius opera e tenebris in lucem prodiit.* Rome, Paulum Manutius, 1562. 4to. Modern full calf in an antique style. First and only edition of Ptolemy’s celebrated application of mathematics to astronomical problems. \$ 5500.00

**RARE WORK ON BALTIMORE’S YELLOW FEVER EPIDEMIC**

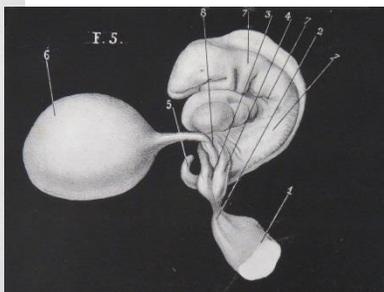
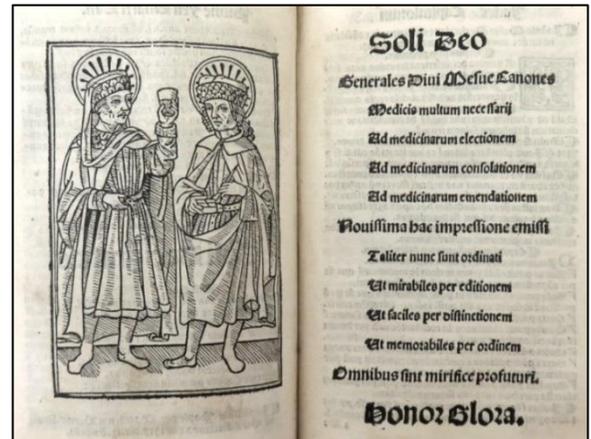
**REESE, David.** *Observations on the epidemic of 1819 as it prevailed in a part of the city of Baltimore.* Baltimore: Published by the author, 1819. 12mo. Modern quarter calf over marbled boards. Inscribed by the author. First edition of an important analysis of the yellow fever epidemic that struck Baltimore in the first part of the nineteenth century. Dr. Reese examines the possible causes and concludes that polluted water in and around Baltimore is the most likely culprit. He continues to examine the progression, contagion, and quarantine of the illness and also provides an appendix detailing symptoms and treatment. Reese’s analysis of the epidemic brought to light many of the sanitary problems facing Baltimore and other heavily populated port cities in the United States at the time. \$ 450.00

**ARTICLES FROM MANY SUPERSTAR SCIENTISTS**

**[ROYAL SOCIETY OF LONDON].** *Philosophical transactions.* A collection of eight early issues of the *Philosophical transactions*, 1668–1687. Included are articles by Wallis, Ray, Flamsteed, Boyle, and letters from Huygens, Hevelius, Francis Willughby, and Lister. Also reviews of books by Mayow, Grew, Cherubin d’Orleans Redi and Tomas Willis, among many others. \$ 3000.00

**CELEBRATED COLLECTION OF ARABIC MEDICINE**

**RUSTICUS, [Petrus Antonius].** *Memoriale medicorum canonice practantium.* Pavia: Bernardino Garaldi, 28 July 1517. Five parts in one. 8vo. Each part with the epochal woodcut depicting St. Cosmas and St. Damian, patrons of physicians–surgeons, holding the urine flask. Also present are the 2 synoptic tables usually lacking. Blindstamped sheepskin. First edition of Rusticus’ extremely rare Latin translation of the medical and pharmaceutical treatises of Avicenna, Rhazes and Mesue. A portion of the text contains the Venetian edition of the *Canon* from 1502, but of major significance here Rusticus provides his own commentary, which includes pragmatic aspects of contemporary medical practice. \$ 7500.00



**CONFIRMATION OF EPIGENESIS**

**SERRES, [Antoine Étienne Reynaud Augustin].** *Anatomie comparée transcendante. Principes d’embryogénie, de zoogénie et de teratogénie.* Paris: Firmin Didot Frères, 1859. Two volumes (text & atlas). 4to. Atlas with 26 folding lithograph plates. Morocco-backed marbled boards. First edition. Serres believed that there was only one underlying animal type and that in the course of development, the organs of higher animals repeated the form of the equivalent organs in lower organisms. In other words, higher animals go through embryological stages analogous to the adult stages of lower life-forms in the course of their development. The plates illustrate such things as organ development, incompletely separated twins and malformed limbs. \$ 1500.00



**JUSTIFYING THE WORK AND NATURE OF THE SOCIETY**

**SPRAT, Thomas.** *The history of the Royal-Society of London for the improving of natural knowledge.* London: Printed for Rob. Scot, Ri. Chiswell, Tho. Chapman, and Geo. Sawbridge, 1702. 4to. With 2 engraved plates. Second edition of the first history of the Royal Society. \$ 600.00

**THE BASIS OF SEX DETERMINATION**

**A LANDMARK WORK INCLUDING THE RARE FIRST VOLUME**

**STEVENS, N[ettie] M[aria].** *Studies in spermatogenesis with especial reference to the "accessory chromosome".* Washington, D.C.: Carnegie Institution of Washington, 1905; 1906. Two volumes. 8vo. With 15 plates. First edition of this monumental study of chromosomal sex determination in the sperm and egg cells of insect species, an early example of XY sex-determination. The work describes Stevens' research on the generation of sperm cells (spermatogenesis) and their role in the fertilization of egg cells, with a focus on chromosomal differences in sperm cells. This work had significant influence on biologists such as Thomas Hunt Morgan and Edmund Beecher Wilson, who, after Stevens published her results, revised his previous publications, deleting references to environmental influences. \$ 800.00

**UNDERWATER MINES AND EXPLOSIVES**

**STOTHERD, Major R[ichard] H[ugh].** *Notes on defence by submarine mines.* Chatham: Printed at the School of Military engineering, 1871. 8vo. With 116 text figures. Modern calf-backed marbled boards; an excellent copy of a rare book. First edition of the first textbook on submarine mining published in England. The author explains the distinction between the offensive and defensive nature of various weapons, and details various types of explosives, including the best type to use depending upon the location (deep sea, inlets, lakes, etc.), and how to construct the various types of mines. Of particular importance are the means of mooring and ways to ignite mines (of which there are substantial and many ways to do so). Testing, which apparently is quite important in the manufacture and ultimate use of weaponry such as submarine mines, is also discussed. \$ 1250.00

**THOMSON, J[oseph] J[ohn].** *Elements of the mathematical theory of electricity and magnetism.* Cambridge: University Press, 1895. 8vo. Green publisher's cloth. First edition. Thomson here illustrates the principles of electricity and magnetism while skillfully avoiding using advanced mathematics. With the ownership inscription of G[eorge] N[eville] Watson (1886-1965), the English mathematician who applied complex analysis to the theory of special functions. \$ 300.00

**[THOMSON, William] LORD KELVIN, 1<sup>st</sup> Baron Kelvin.** *Baltimore lectures on molecular dynamics and the wave theory of light founded on Mr. A. S. Hathaway's stenographic report of twenty lectures delivered in Johns Hopkins University, Baltimore, in October 1884.* London: C.J. Clay and Sons, 1904. 8vo. Numerous text illustrations throughout. First edition of these series of lectures. Lord Kelvin attempts to formulate a physical model for the aether, an extremely valuable medium that would support the electromagnetic waves that were important to the explanation of radiative phenomena. \$ 450.00

**BEHAVIOR OF FLUIDS**

**WAALS, Johannes Diderik van der.** *Over de continuïtet van den gas-en vloeïstoftoestand.* Leiden: A. W. Sijthoff, 1873. 8vo. Original printed wrappers. First edition of van der Waals' classic dissertation on the continuity of gaseous and liquid states, and in which he introduced the "van der Waals equation" approximating the behavior of real fluids. This highly influential document, which changed the course of molecular physics, marked the beginning of a comprehensive molecular theory that was simplified using basic mechanics to explain the changes in states of liquids and vapors. \$ 7500.00

**THE FIRST SERIES OF LECTURES ON NATURAL HISTORY GIVEN IN AMERICA**

**WATERHOUSE, Benjamin.** *The botanist, being the botanical part of a course of lectures on natural history. Delivered in the University at Cambridge. Together with a discourse on the principle of vitality.* Boston: Joseph T. Buckingham, 1811. 8vo. Contemporary sheepskin. First edition. Waterhouse was a founder of Harvard Medical School, where he was professor of medicine, as well as a professor of natural history at Brown. This work represents the botanical portion of a series of lectures on natural history. \$ 250.00

**CONTINUITY OF GERM PLASM**

**WEISMANN, August.** *Die Continuität des Keimplasma's als Grundlage einer Theorie der Vererbung.* Jena: Gustav Fischer, 1885. 8vo. Original printed wrappers. First edition. Weismann came to believe that the cell nucleus played the main role in transmitting hereditary characteristics. In the present essay he located the germ plasm more precisely within the nucleus, and considered the question (about which he had reservations) of whether germ plasm was to be identified with the portions of the nuclear filaments that took up chromatin stain. \$ 650.00

**THREE WORKS FROM WEISMANN'S OWN LIBRARY**

**1. WEISMANN, August & ISCHIKAWA, Chiyomatsu.** *Weitere untersuchungen zum zahlengesetz der richtungskörper, (Further investigations into the statutory number of polar bodies).* Zoologischen Jahrbuchern, Jena, Gustav Fischer, 1888. 8vo. Original printed wrappers. First edition. The authors here seek to lay the foundation for the laws regarding the number of polar bodies in animals, polar bodies being cell structures found inside an ovum and produced during oogenesis. **2. WEISMANN, August.** *Äussere Einflüsse als Entwicklungsreize (External influences as a stimulus for development).* Jena: Gustav Fischer, 1894. 8vo. Original printed wrappers, uncut and unopened. Presentation copy from Weismann. First edition. This paper sets out Weismann's views on the importance of external factors on animal development. He treats both preformation and epigenesis, crucial arguments in the continuing discussions between Lamarckists and neo-Mendelian theories, at a time before the rediscovery of Mendel's work. **3. WEISMANN, August.** *Neue gedanken zur vererbungsfrage (new thoughts on inheritance).* Jena: Gustav Fischer, 1895. 8vo. Original printed wrappers. This constitutes the final rebuttal in Weismann's ongoing dispute with Spencer over inheritance; it is particularly noteworthy for his first proposal of germinal selection, the theory of hierarchical selection, that germ plasm is made up of chromosomes composed of thousands of minute particles carrying hereditary information. \$ 2400.00

**DEALING WITH THE COMMON COLD**

**WHITE, E.L.** *A popular essay on the disorder familiarly termed a cold. . . .* London: Printed for T. Cadell and W. Davies, 1807. 8vo. Modern cloth. First edition. A fascinating work on an ailment that still afflicts us without cure, despite our advanced medical knowledge. Of particular interest is a discourse on one's predisposition to suffering from colds, including personality such as inattention to taking care of oneself. Remedies are discussed! \$ 200.00

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The collection comes from the Zoologiska Institutionens Bibliotek in Uppsala, Sweden, with its stamp on most of the title pages/covers. A great many of them are from the libraries of distinguished scientists such as Alexander Goette, Wilhelm Lilljeborg and Axel Wirén, and have their stamp or ownership inscription. A complete list will be provided upon request.

Alexander Wilhelm von Götte (1840–1922) was an eminent German zoologist born in St. Petersburg. His main interest was invertebrate embryology, his major work (on the *Bombinator igneus*, a European aquatic toad) appearing in 1875. though sometimes presented as an opponent of Darwinism, Götte acknowledged the theory of descent, though he was highly skeptical of Darwin's acceptance of the inheritance of acquired characteristics; during the 1870s, he was involved in a famous dispute over Darwinism with eminent biologist Ernst Haeckel. Götte was a pioneer in the research of developmental physiology, which soon became its own field of study, and he became a major figure in zoology of the late 19-century.

Wilhelm Lilljeborg (1816–1908) was a noted Swedish zoologist and a professor at the University of Uppsala. He specialized in the study of the Swedish cladocera (water flea), and his particular contribution to research in that field was his work on the importance of cladocera in the food chain. He is also well-known for his work on whales, discovering a sub-fossil in 1861 which he named *Balaenoptera robusta* (Atlantic Gray Whale); this was later placed in a new genre of whales, *Eschrichtius*, by the British researcher John Gray.

Axel Wirén (1860–1925) was prominent Swedish zoologist, specializing in malacology (the study of molluscs). He received his PhD from the University of Uppsala in 1885, taking a professorship there in 1908; he was also a researcher at the Kristineberg Marine Research Station. He became a member of the Swedish Royal Academy of Sciences (KVA) in 1902, and was the founder of the prestigious Wirén scholarship.

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