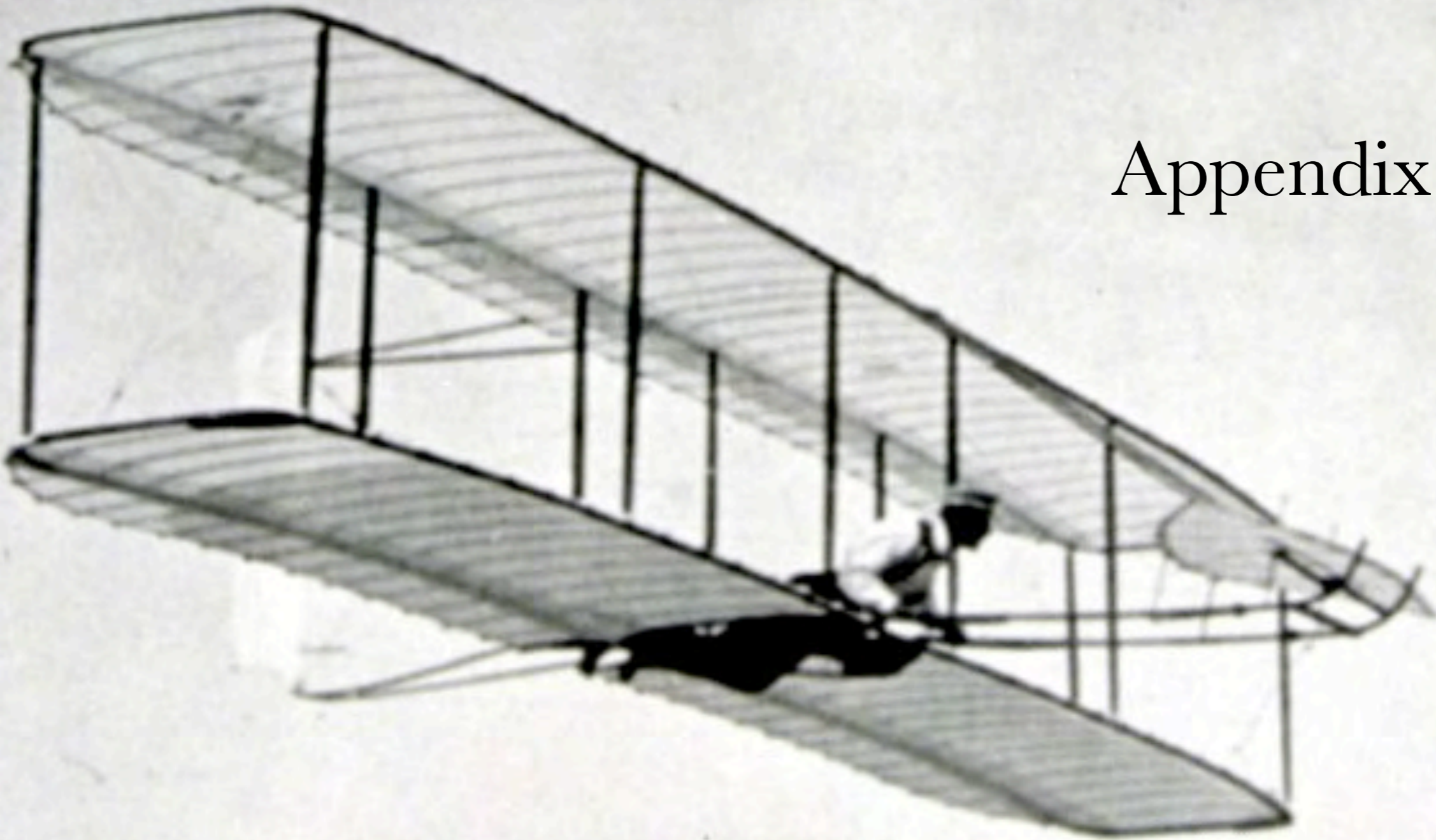


# Appendix



## The Genesis of Flight

The Aeronautical History Collection of Colonel Richard Gimbel

At the United States Air Force Academy

## Appendix



### Printed Books: 1489-1850

(in order of Publication year)

This additional selection of books gives special emphasis to the strength of the Gimbel collection in four main areas: scientific works of the Renaissance with some bearing on aviation; creative writing reflecting the mythology and iconography of flight; comic and satirical responses to the first balloon ascents; and practical manuals about flying and building balloons.

Albertus Magnus, Saint, bp. of Ratisbon, 1193?-1280.  
[Physica] Diui Alberti Magni phisicorum siue De phisico auditu libri octo. [Colophon: Impressum Uenetijs per Ioānem de Forliuio & Gregorium fratres. Anno dni. M.CCCC.XCIIIJ. die vltimo Ianuarij [=n.s. January 31, 1495].] 128 leaves, 5-128 numbered 1-124. 31 cm. Hain 519. AC10.A3 1494.

Albertus Magnus, Saint, bp. of Ratisbon, 1193?-1280.  
[De caelo et mundo] Incipit liber primus [-quartus] de celo & mundo Alberti magni ... [Colophon: Impressum Uenetijs per Ioānem & Gregorium d'Gregorijs fratres. Annodni. M.CCCC.LXXXV. die vj. Iulij.] 73 [1]

leaves. 31 cm. Hain 512. Bound with his *Physica*, 1494. AC10.A3 1494.

Albertus Magnus, Saint, bp. of Ratisbon, 1193?-1280. [De generatione et corruptione] Incipit Liber de generatione & corruptione. [Colophon: Impressum Uenetijs per Ioānem & Gregoriū de Gregorijs fratres. Anno dni. M.CCCC.LXXXV. die decima Iunij.] 23, [1] leaves. 31 cm. Hain 517. Bound with his *Physica*, 1494. AC10.A3 1494.

Albertus Magnus, Saint, bp. of Ratisbon, 1193?-1280. [De mineralibus] Alberti Magni ... de mineralibus liber primus [-quintus] incipit. [Colophon: Impressum Uenetijs per Ioānem & Gregorium de Gregorijs fratres. Anno dni. M.CCCC.LXXXV. die xxij. Iunij.]. 21, [1] leaves. 31 cm. Hain 522. Bound with his *Physica*, 1494. AC10.A3 1494.

Ptolemaeus, Claudius, 2nd cent. C.E. [Epytoma in Almagestum] Cl. Ptolemei alexandrini Astronomorum principis [eis megalin syntaxin [transliterated]] id est in Magnam Constructionē Georgij purbachij: eiusque discipuli Iohannis de Regio monte Astronomicon Epitoma [Ed. by J. B. Abiosus.] [Colophon: Opera ... & arte... Iohannis hāman de Landoia: dictus hertzog ...

1496 currente: Pridie Calen Septembris Uenetiis] [110] leaves. illus. 30 cm. Hain 13806. AC10. P9 1496.

Gellius, Aulus, ca. 130-180 C.E. Avlii Gellii Noctivm atticarvm libri vndeviginti. [Colophon: Venetiis in aedibvs Aldi, et Andreae soceri mense septembri. M.D.XV.] 31 p. l., 289 numb. l., [102] p. 16.5 cm. PN6390.A2 1515.

Alciati, Andreas, 1492-1550.... *Emblematum libellus*. Parisiis, Ex officina C. Wecheli, 1540. 119 [1] p. illus. 17 cm. PN6349.A34 1540.

Scaliger, Julius Caesar, 1484-1558.... *exotericarvm exercitationvm liber quintvs decimvs, De subtilitate, ad Hieronymvm Cardanvm*. Lvtetiae, Ex officina typographica Michaelis Vascosani, 1557. [4], 476,[31] numb. leaves. illus. 24 cm. Q155.S27.

Fulgentius, Fabius Planciades, 5th-6th cent. C.E. . . .*opera, quae scripsit omnia*. . . Basileae, [Ex officina Henric. Petrina, 1566]. 33 p. l., 850 p., 1 leaf. 15 cm. TLB154.F8 1566.

Cardano, Girolamo, 1501-1576 . . . . *Commentarii, in Hippocratis de aere, aquis et locis . . . . Accedunt praeterea ante quoque non impressa . . .* Basileae, Ex officina Henric.

Petrina [Colophon: 1570, mense avgvsto.] 28

p. l., 338, [2] p. 32 cm. Q155.C26a.

Leslie, John, bp. of Ross, 1527-1596. *De origine, rnoribus, et rebvs gestis Scotorvm libri decem. . .* Romae, in aedibus populi romani, 1578. 20 p. l., 588, [32] p. incl. 1 illus. (coat of arms) 11 pl. double map. 22 cm. DA775.L63.

Hero, of Alexandria, (date uncertain). *Heronis Alexandrini Spiritalium liber. A Federico Commandino urbinatē, ex graeco nuper in latinvm conversus.* Apud aegidium Gorbinum, 1583. 163 p. illus. 20 cm. QC142.H55.

Wecker, Johann Jacob, 1528-1586. *Les secrets et merveilles de natvre. Recueillis de diuers autheurs, & diuisez en XVII liures,* par Jean Jacques Uvecker. . . Traduit en François. . . A Tournon, 1606. 8 p. l., 1246, [49] p. illus. 17 cm. AG103.W38.

Du Bartas, Guillaume de Salluste, *seigneur*, 1544-1590. *Du Bartas His Deuine Weekes and Workes Translated And Dedicated to the Kings most excellent Maiestie by Josuah Sylvester.*

*Now thirdly corrected and augm. . .* London, [1611]. 17 p. l., 819, [31] p. illus. (incl. port.) 18 cm. PQ1616.E2S8 1611.

Bate, John. *The mysteries of nature and art, in 4 severall pts. The 2d ed. with many additions unto every pt.* London, 1635. 288 p. illus. (incl. port.) 19 cm. STC 1578. Q155.B32.

Heywood, Thomas, d. ca. 1650.. . . *The hierarchie of the blessed angells. Their names, orders and offices. The fall of Lucifer with his angells. . .* London, 1635. 5 p. l., 622, [8] p. incl. illus., 4 pl. 27.5 cm. First edition. STC 13327. PR2574.H6 1635.

[Schwenter, Daniel], 1585-1636. *Deliciae physico-mathematicae. Oder Mathemat.und philosophische erquickstunden. . . am tag gegeben durch m. Danielem Schwenterum.* Nürnberg, 1636-1692. 3 v. illus. (incl. music), pl. (1 fold.) diagrs. 19 x 16 cm. Q155.S41.

Kircher, Athanasius, 1602-1680. . . . *Itinerarium exstaticmn quo mundi opificium. . . exponitur ad veritatem. . .* Romæ, 1656. 4p. l., 464, [24] p. 25 cm. QB41.K58 1656.

[Boyle, Hon. Robert], 1627-1691. *Occasional reflections upon several subjects, whereto is premis'd a discourse about such kind of thoughts*. London, 1665. 80, 161-264, 229 p. 17 cm. Wing B4005. PN6330.B79.

Hooke, Robert, 1635-1703. *Micrographia: or, Some physiological descriptions of minute bodies made by magnifying glasses . . .* [2nd ed.] London, 1667. 18 p. l., 246 [10] p. XXXVIII fold. pl., 28.5 cm. Wing H2621. QH271.H78 1667.

Caramuel Lobkowitz, Juan, 1606-1682 . . . . *Mathesis biceps. Vetus et nova . . . In omnibus, et singulis veterum, & recentiorum placita examinantur . . .* Lugduni, 1670. 2 V. illus., LII pl., diagrs. 31 cm. Added t.-p., engraved; initials; head and tail pieces. Paged continuously. Q155.C25.

Kircher, Athanasius, 1602-1680. . . *Ars magna lucis et umbræ, in x. libros digesta . . .* Editio altera priori multò auctior . . . Amstelædami, 1671. 16 p.l., 810 [i.e., 710], [9] p. illus. 2 pl. (1 fold.), port., 2 tab., diagrs. 39.5 cm. Brockett 6731; Gamble 4889. Q155.K58 1671.

Guericke, Otto von 1602-1686. . . . *Experimenta nova . . . magdeburgica de vacuo spatio . . .* Amstelædami, 1672. 8 p.l.,

244, [4] p., 1l. illus. 2 double pl., port., diagrs., 33 cm. Q155.G93.

Fuente la Peña, Antonio de, 17th cent. *El ente dilucidado: discurso unico novissi[m]o que muestra ay en natural[ez]a; animales irracionales invisibles y quales sean . . .* Madrid, 1676. [18], 486,[19] p. 21 cm. TLB154.F9 1676.

Galatheau, de, fl. 1662-1674. *Dissertation touchant l'empire de l'homme, sur les autres animaux, & sur toutes les creatures sublunaires . . .* Paris, 1676. 3 p. l., 87, [1] p. 16 cm. BD450.G14.

Lohmeier, Philipp, d. 1680, *praeses*. . . . *Exercitatio physica de artificio navigandi per aerem . . .* Rinthelij, [1676]. 28 p. 20 x 16 cm. [Brockett 7674]. TLD902.L83.

Sturm, Johann Christoph, 1635-1703. *Collegium experimentale, sive Curiosum, in quo primaria hujus seculi inventa & experimenta physico-mathematica . . . quodque nunc . . . adspicere voluit Johannes Christophorus Sturmius . . .* Norimbergae, 1676-1685. 3 v. in 1. illus. 21 cm. [Gamble 1336]. Q155.S92.

Borelli, Giovanni Alfonso, 1608-1679. *De motu animivm . . . Opvs posthumum . . .* Romae, 1680-1681. 2 v. 18 fold.pl., 22 cm. [Brockett 2040];Gamble 519.QP301.B72.

Bernoulli, Jacques, 1654-1705. . . . *Dissertatio de gravitate ætheris.* Amstelædami, 1683. 260 p. illus. 17 cm. QC17.B52.

Major, Johann Daniel, 1634-1693. . . . *See-farth nach der neuen welt / ohne schiff- und segel; anno 1670 zu erst / und nu wiederumb / der gelehrten welt vorgestellt.* Hamburg, 1683. 11 p.l., 258, [5] p. front. 18 cm. AE4.M3.

Lana Terzi, Francesco, 1631-1687. *Magisterivm natvræ et artis. Opvs physico-mathematicvm . . .* Brixia, 1684-1692. 3 v., pl., 41.5 cm. Gamble 1133. Q155.L24.

[Fontenelle, Bernard le Bovier de], 1657-1757. *A plurality of worlds. Written in French . . . Translated into English by Mr. Glanvill.* London, 1688. 6 p. l., 152 p. 16 cm. First French edition 1686. QB54.F68p 1688.

Pasch, Georg, 1661-1707. . . . *De novis inventis, quorum accuratiori cultui facem prætulit antiquitas, tractatus . . .* Editio

secunda . . . Lipsiæ, 1700. 8 p.l., 812, [125] p. front. 21.5 x 17.5 cm. Q155.P27 1700.

[Saunders, Richard], d. 1692. . . . *A discourse of angels: their nature and office, or ministry. Wherein is shewed what excellent creatures they are, and that they are the prime instruments of God's providence . . .* London, 1701. 4 p. l., 314 p. 21 cm. BT965.S25.

[Stübel, Andreas], 1653-1725. *Der neu-bestellte Agent von Haus aus, mit allerhand curieusen Missiven, Brieffen, Memorialien . . . Correspondenzen . . . nach Erforderung der heutigen Staats- und gelehrten Welt.* Freyburg, 1704-1709. 3 v. illus. 16.5 cm. AC33.S94.

[Defoe, Daniel], 1661?-1731. *The consolidator: or, Memoirs of sundry transactions from the world in the moon. Tr. from the lunar language, by the author of The true-born English Man.* London, 1705. 2 p. l., 300 p. 19 cm. PR3404. C75 1705.

Becher, Johann Joachim, 1635-1682. . . . *Närrische Weisheit und weise Narrheit . . .* [n.p.], 1707. 39 p. l., 208 p. front. 14 cm. T44.B39.

[Bordelon, Laurent], 1653-1730. *L'histoire des imaginations extravagantes de Monsieur Oufle, causées par la lecture des livres qui traitent de la magie, du grimoire, des démoniaques, sorciers . . . des fées, ogres . . . phantômes & autres revenans . . .*  
Amsterdam, 1710. 2 v. front. pl. 17.5 cm. BF1410.B72.

Hauksbee, Francis, d.1713? *Physico-mechanical experiments on various subjects . . .* 2d ed. London, 1719. 8 p. l., 336 p. VIII fold. pl. 20 cm. QC19.H37 1719.

Vanossi, Antonio, 1683-1757. *Placita physica de smypathia, & antipathia deprompta ex P. Francisco Tertio de Lanis . . .*  
Viennai, [1724?]. 3 p. l., 319, [12] p. 13 cm. BF110.V27.

Fabricius, Hieronymus, ab Aquapendente, ca. 1533-1619. . . . *Opera omnia anatomica et physiologica . . .*  
Lugduni Batavorum, 1738. 24 p. l., 452, [22] p. front., pl. 32 cm. QL803.F12.

*La curiosité fructueuse; ouvrage dédié aux curieux intéressés . . .*  
Paris 1739. 14 [i.e., 41], [2] p. 17 cm. Brockett 3222. TLB154.C97 1739.

[Worcester, Edward Somerset] 2d. Marquis of, 1601-1667. *A century of the names and scantlings of such*

*inventions, as at present I can call to mind . . .* London, 1746. 94 p. 16 cm. First ed. 1663. [Gamble 113-114]. T44.W91 1746.

Baroni Cavalcabò, Clemente, 1726-1796. *L'impotenza del demonio di trasportare a talento per l'aria da un luogo all'altro i corpi umani . . .* Rovereto, 1753. xxiv, 141, [1] p. 23 cm. Brockett 1413; Gamble 4685. BF1524.B26.

Bingfield, William [pseud.]. *The travels and adventures of William Bingfield, Esq; containing as surprising a fluctuation of circumstances, both by sea and land, as ever befel one man . . .*  
London, 1753. 2 v. front. 9v. 1) 16 cm. PZ3.B6126.

[Charbonnet, Pierre Mathias], d. 1815. *Éloge prononcé . . . devant les habitans des petites-maisons . . .* Avignon, 1760. 48 p. 17 cm. TLB154.C47 1760.

Caputi, Antonio. *Estasi e rapimento sopra la luna . . . Poema diviso in tre parti.* Napoli, 1763. 290, 8 p. 26 cm. Title vignette. PQ4215.C31.

Plets, Martin. *Den Engelske Flyveres Reisebeskrivelse, under hvilken Digt den naturlige Lovs og Folke-Rettens Grundfoetninger ungdommen til Nytte forestilles . . . Oversat af Svensk i Dansk . . .*

af *Andreas Christian Krog* . . . Kiøbenhavn, 1774. 5 p. l., 142 p. 17 cm. PT9706.P72.

Cailhava d'Estendoux, Jean-François, 1730-1813. *Théâtre de m. Cailhava* . . . Paris, 1781-. v. 20.5 cm. PQ1959.C23A19.

[Bodard de Tezay, Nicolas Marie Félix], 1757-1823. *Le ballon, ou La physicomanie, comédie en un acte et en vers; représentée, pour la première fois . . . le 13 novembre 1783* . . . Paris, 1783. 40 p. 20.5 cm. TLB154.B66 1783.

*The balloon jester; or, Flights of wit and humour . . . with a diverting account of the adventures and reception of the air balloon* . . . London, [1783]. 72 p. front. 18 cm. TLB154.G73 1783.

[C,M]. *The sheep, the duck, and the cock: a dramatic fable, written at Paris soon after the ascension . . . of the famous air balloon . . . at Versailles, Sept. 19, 1783*. Bath, [1783?]. 32 p. illus. 21 cm. Tr. of "Le mouton, le canard, et le coq par M.C. . . ." TLB154.S54 1783.

[Thomson, William], 1746-1817. *The Man in the moon; or, Travels into the lunar regions, by the Man of the people*. London, 1783. 2 v. 16 cm. PZ3.T484m.

Arlandes, François Laurent, Marquis d', 1742-1809. *Les voyageurs aériens, ou Relations des courses faites . . . par M. le major d'Arlande . . . le 22 novembre 1783 . . . & par M. Charles . . . le 2 décembre 1783* . . . [n.p.], 1784. 20 p. illus. 17 cm. TLB273.A72.

Bertholon, Pierre, 1742-1800. *Des avantages que la physique, et les arts qui en dépendent, peuvent retirer des globes aërostatiques*. Montpellier, 1784. vj, [7]-82 p. 19.5 cm. TLB273.B54.

Brisson, Mathurin Jacques, 1723-1806. *Observations sur les nouvelles découvertes aërostatiques, et sur la probabilité de pouvoir diriger les ballons*. Paris, 1784. 63 p. 21 cm. Brockett 2213a TLB273.B85.

Carra, Jean Louis, 1743-1793. *Essai sur la nautique aérienne, contenant l'art de diriger les ballons aërostatiques à volonté* . . . Paris, 1784. 23, [1] p. fold. pl. 20.5 cm. Brockett 2565; Gamble 949. TLB273.C31.



Duchosal, Marie Émilie Guillaume, 1763-1806. *Blanchard, poeme en deux chants . . .* Rouen et Paris, 1784. 13 p. 19.5 cm. TLB276.B6D82.

[Gérard, Laurent Gaspard], *Essai sur l'art du vol aérien . . .* Paris, 1784. 2 p. l., 178, xv p. fold. pl. 18 cm. Brockett 5199. TLB273.D44 no. 8.

Huber, Jean, 1721–1786. *Observations sur le vol des oiseaux de proie. . .* Genève, 1784. 51 p. 7 fold. pl. 25.5 x 20.5 cm. Brockett 6294; Gamble 5221. QL698.H87.

Kratzenstein, Christian Gottlieb, 1728–1795. *L'art de naviguer dans l'air . . .* Copenhagen & Leipzig, 1784. 2 p. l., 90, [1] p. 2 pl. (1 fold.) 20.5 cm. Brockett 6879; Gamble 1127. TLD902.K9.

Martyn, Thomas, fl. 1760–1816. *Hints of important uses, to be derived from aerostatic globes. With a print of an aerostatic globe, and its appendages. Originally designed in 1783.* London, 1784. 16 p. fold. front. 35 cm. Brockett 8089. TLB274.M38.

*The modern Atalantis; or, The devil in an air balloon. Containing the characters and secret memoirs of the most conspicuous persons*

*of high quality, of both sexes, in the island of Libertusia, in the western ocean. Tr. from the Libertusian language. . . .* London, 1784. iv, 135 p. 20 cm. TLB154.M68 1784.

Robert, Anne Jean, 1758–1820. *Mémoire sur les expériences aérostatiques faites par MM. Robert frères . . .* Paris, 1784. 1 p. l., 20 p. 28 x 21.5 cm. Brockett 10412. TLD902.R64.

*Bibliothèque physico-économique, instructive et amusante, année 1784, ou troisième année . . .* Paris, 1785. viii, 421 p. 3 fold. pl. 17 cm. AC20.B58.

Baldwin, Thomas, *aironaut. Airopaidia: containing the narrative of a balloon excursion from Chester, the eighth of September, 1785, taken from minutes made during the voyage . . .* Chester, 1786. iii–viii, 3 p. l., 360 (i.e., 361) p. incl. tables. fold. pl. (part col.), fold. map. 22 cm. Brockett 1203. TLB273.B186.

Jeffries, John, 1745–1819. *A narrative of the two aerial voyages of Doctor Jeffries with Mons. Blanchard; with meteorological observations and remarks.* London, 1786. 60, [13] p.: ill. 29 cm. Includes ill. and ts. of trans. of French not included in original. [Brockett 6577]; [Gamble 4878]. TLB276.J4A31 1786b. (See also

Appendix, Manuscripts, Jeffries, *Narration*, 1830, TLB159.J47.)

Lunardi, Vincent, 1759–1806. *An account of five aerial voyages in Scotland, in a series of letters to his guardian . . .* London and Edinburgh, 1786. 6, 114 p. 1 l. front. (port.) 2 pl. 20.5 cm. Brockett 7813; Gamble 696. TLB276.L8A18.

*The Balloon, or Aerostatic spy; a novel, containing a series of adventures of an aerial traveller; including a variety of histories and characters in real life . . .* London, 1786. 2 v. 19 cm. TLB154.B19 1786.

Blumhofer, Max. *Die Luftschiffer, oder der Strafplanet der Erde. Ein komisch, satirisches original Singspiel in 3. Aufzügen.* Leipzig, 1787. 80 p. 15.5 cm. TLB154.B65 1787.

[Resnier, André Guillaume], 1729–1811. *République universelle, ou, L'humanité ailée, réunie sous l'empire de la raison . . .* [Genève, 1788]. viii, 398 p. 2 fold. pl. 23 cm. TLB154.R42 1788.

Olivari, Francis. *An essay on aërostation: wherein is exhibited the easiest method of constructing and directing aerostats, a plan*

*for reconnoitering balloons, and a new hint for aerostatical telegraphs . . .* Dublin, 1797. v, 26 p. 3 pl. 21 cm. [Brockett 9368]. TLB274.O47.

Barthez, Paul Joseph, 1734–1806. *Nouvelle mécanique des mouvements de l'homme et des animaux.* Carcassonne, [1798]. xv, 1 p. l., 246, [2] p. 26 x 20.5 cm. [Brockett 1429]. QP301.B28.

[Zambeccari, Francesco, conte], 1752–1812. *Saggio sopra la teoria e pratica delle macchine aereostatiche . . .* Bologna, 1800. xiv p. 23.5 x 18.5 cm. Brockett 13111. TLB276.Z2A54.

*Air Balloon. A full and accurate account of the two aërial voyages made by Mons<sup>R</sup>. Garnerin, on Monday, June 28, and Monday, July 5, 1802; including the interesting particulars communicated by Captain Sowden and Mr. Locker, who accompanied M. Garnerin. As written by themselves. To which is prefixed, The origin of balloons . . .* [Sommers Town, 1802]. 37 p. incl. col. front. 18.5 cm. TLB273.A29.

Zachariae, August Wilhelm, 1769–1823. *Die Elemente der Luftschwimmkunst.* Wittenberg, 1807. vi, 282 p. fold. pl. (diags.) 22.5 cm. Brockett 13112; Gamble 5307. TLB398.Z14e.

Kraskovitz, M. G. *Skizzirte Darstellung der vorzüglichen Versuche der Luft zu durchschiffen, und Blicke, auf ihren Zweck, Werth, und Vortheile*. Wien, 1810. 78 p. 18.5 cm. TLB398.K91.

Sadler, James, 1751–1828. *Balloon. An authentic account of the aerial voyage of Messrs. Sadler and Clayfield, who ascended in a most magnificent balloon from a field in the neighbourhood of Stoke's-Croft, Bristol, on Monday, September 24th, 1810. . . .* Bristol, [1810]. 11, [1] p. front. (fold. map) 20.5 cm. TLB276.S14B3.

Zachariae, August Wilhelm, 1769–1823. *Fluglust und Fluges Beginnen*. Leipzig, 1821. 40 p. 18.5 cm. Brockett 13113. This copy includes additional material (pp. 41–60): . . . *und Fluges Fortgang . . .*, 1822. TLB398.Z14.

Zachariae, August Wilhelm, 1769–1823. *Geschichte der Luftschwimmkunst, von 1783 bis zu den Wendelsteiner Fallversuchen*. Leipzig, 1823. xviii, 1 p. l., [3]–199, [1] p. 18.5 cm. Brockett 13114. TLB398.Z14g.

Dupuis-Delcourt, Jules François, 1802–1864. *Mémoire sur l'aérostation et la direction aérostatique*. Paris, 1824. v, [7]–37 p., 1 l. 27.5 cm. Brockett 3815. TLB273.D94.

[Pocock, George], . . . *The aeropleustic art, or Navigation in the air, by the use of kites, or buoyant sails . . .* [London, 1827]. 1 p. l., 51 p. col. pl. 30.5 x 24 cm. Brockett 9861. TLD951.P7423b 1827.

Forster, Thomas Ignatius Maria, 1789–1860. *Annals of some remarkable aërial and alpine voyages, including those of the author; to which are added observations on the affections to which aerial and mountain travellers are liable . . .* London, 1832. xv, [1], 120 p. illus. 21.5 cm. Brockett 4944. [With his *Researches about atmospheric phenomena*. London, 1923. Copy 2.] TLB251.F73.

Rainold, K. G. *Erinnerungen an merkwürdige Gegenstände und Begebenheiten, verbunden mit erheiternden Erzählungen . . .* Wien und Prag, 1832. 350, [4] p. illus. 26 cm. AC35.R16.

Dubochet, J. A. *Recherches sur le vol des oiseaux et l'art aéronautique . . .* Nantes, 1834. 1 p. l., 76 p. pl. 20 cm. Brockett 3766. TLD181.D81.

Mason, [Thomas] Monck, 1803–1889. *Account of the late aeronautical expedition from London to Weilburg, accomplished by Robert Holland, esq., Monck Mason, esq., and Charles Green, aeronaut . . .* London, 1836. 52 p. 21.5 cm. Brockett 8182; [Gamble 711]; [R-P 15]. TLB276.M3A2.

Costa, Marco Antonio. *Saggi sull'aerostatica e sull'aeronautica*. . . . Napoli, 1837. 8 p. l., [5]–116 p., 1 l., 96 p. fold. pl. 23 cm. Brockett 3117. With *Complemento della seconda parte del secondo saggio sull'aerostatica e sull'aeronautica*. [Napoli, 1838?] 32 p. 23 cm. TLB273.C83.

[Garibbo, Luigi], 1784–1869. *Cenni storici sull'aeronautica fino alle recenti ascensioni fatte dal sig. Green e compagni da Londra e da Parigi* . . . Firenze, 1838. 175, [1] p. 20.5 cm. "Avvertimento" signed: L. G. [*i.e.*, Luigi Garibbo]. Brockett 5137. TLB398.G23.

Argentati, Raffaele. *Descrizione di un apparecchio locomotore applicabile alla direzione de' globi areostatici*. Senigallia, 1840. 15 p. fold. pl. 21 cm. Dedication dated 18 Jan. 1841. Brockett 784. TLB274.D44.

Davidson, Richard Oglesby. *A disclosure of the discovery and invention and a description of the plan of construction and mode of operation of the aerostat; or, A new mode of aerostation*. Saint Louis, Mo., 1840. 32 p. illus. 19.5 cm. Brockett 3300; R-P 18. TLB398.D26.

Sanson, A. J. *Notice explicative sur la navigation dans l'air, ou Premières notions d'aéronautique* . . . 2. éd. rev. et augm. . . .

Paris, 1840. 7, [1] p. 23.5 cm. Brockett 10783. TLD902.S22n.

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### **Printed Books: 1851–1914**

(in order of publication year)

The following volumes from the Gimbel collection were selected not only to illustrate the depth and range of this

extraordinary library of rare aeronautica and collection of rare books but also to call attention to a series of additional volumes of critical importance in the history of flight. As in the list of annotated items, these books cover a range of topics from serious engineering texts and detailed histories to works of the imagination that inspired past generations with the desire to fly. In many cases, it would be very difficult to justify the decision to treat one volume with a full annotation and another as a title on this list.

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Popper, Josef, 1838— . *Der Maschinen- und Vogelflug. Eine historisch-kritische flugtechnische Untersuchung. Mit besonderer Hervorhebung der Arbeiten von Alphonse Pénaud, von Josef Popper-Lynkeus, mit Figuren im Texte. Erweiterter Sonderabdruck aus der automobil- und flugtechnischen Zeitschrift "Der*

*Motorwagen.*” Berlin: M. Krayn, 1911. 103, [1] p. diags. 25.5 cm. TLD181.P83.

Rodgers, Calbraith Perry, *Story of My Flying with Complete Technical Description of My Aeroplane; Flying from Coast to Coast.* Chicago: Vin-Fiz Co., [1911]. 8 p. illus., photos. 16 cm. TLB290.R68.

Rotch, Abbott Lawrence, 1861–1912. *Charts of the Atmosphere for Aeronauts and Aviators, by A. Lawrence Rotch . . . and Andrew H. Palmer. . . .* 1st ed., 1st thousand. New York: J. Wiley and Sons; [etc., etc.], 1911. 96 p., 1l. incl. 24 charts. 24 x 30 cm. QC879.R84.

Simmonds, Ralph, *All About Airships, a Book for Boys, by Ralph Simmonds . . . with a colour frontispiece and a large number of illustrations from photographs.* London, New York, [etc.]: Cassell and Company, Ltd., [1911]. 5 p. l., 374 p. col. front., plates. 21.5 cm. TLB251.S59.

Stelling, August, *12000 Kilometer im Parseval, von A. Stelling.* Berlin: G. Braunbeck & Gutenberg druckerei aktiengesellschaft, 1911. 209, [1] p. illus. 25 cm. TLD921.P26S82.

Wellman, Walter, 1858–1934. *The Aerial Age; a Thousand Miles by Airship over the Atlantic Ocean; Airship Voyages over the Polar Sea; The Past, the Present and the Future of Aerial Navigation.* New York: A. R. Keller & Company, 1911. 448 p. front., plates, ports. 20.5 cm. Gamble 4513. TLB285.W45.

Hayward, Charles Brian, *Practical Aeronautics; an Understandable Presentation of Interesting and Essential Facts in Aeronautical Science, by Charles B. Hayward . . . with introduction by Orville Wright . . .* Chicago: American School of Correspondence, 1912. xv, [1], 769 p. incl. front., illus., diags., plates. 25 cm. TLB535.H42 1912.

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Lougheed, Victor, *Aeroplane Designing for Amateurs; A Plain Treatment of the Basic Principles of Flight Engineering—Including Heretofore Unpublished Facts Concerning Bird Flight and Aerodynamic Phenomena, by V. Lougheed. . . .* Chicago: Reilly & Britton Co., [1912]. 176 p. front., illus., diags. 18 cm. TLD481.L88.

[Michelin, André], *Notre Avenir et dans l'air*. Sceaux: gravé et imprimé par Charaire, 1912. Cover-title, 40 p. illus. (ports.) 21.5 cm. UGH903.M62.

Mouillard, Louis Pierre, 1834–1897. *Le Vol sans battement; ouvrage posthume inédit de L.-P. Mouillard . . . reconstitué et précédé d'une étude sur l'oeuvre ignorée de L. P. Mouillard par André Henry-Couannier*. Paris: Librairie aéronautique, 1912. 484 p. front. (port.) illus., fold. pl. 23.5 cm. Gamble 5272. TLB535.M92.

Riley, James Whitcomb, 1849–1916. *The Flying Islands of the Night*. . . . Indianapolis: Bobbs-Merrill Co., [1913]. 4 p. l., 3–124 p. 16 mounted col. pl. (incl. front.) 25.5 cm. PS2704.F5.

Garros, Roland, 1888–1918. *L'Aéronautique par Roland Garros, Brindejone des Moulinais, Alfred Leblanc, Frank Barra, Jean Bielovucic, comte de la Vaulx, Jacques Mortane, Marc Gouvieux, Marcel Viollette, Henri Mirguet; préface du baron d'Estournelles de Constant. Ouvrage orné de 48 pages d'illustrations photographiques hors texte et de plusieurs schémas*. Paris: P. Lafitte & Cie, [1914]. 2 p. l., xii, 389, [1] p. incl. illus., plates, ports., diagrs. 20.5 cm. TLB400.G24.

*Guide Michelin pour les Officiers aviateurs; dressé avec le concours de la ligue aéronautique de France de Mr. Blondel la Rougery, et de l'Aérophile*. Paris, 1914. 48 p. illus., maps. 18.5 cm. TLD1137.G94.

Hamel, Gustav, *Flying; Some Practical Experience by Gustave Hamel and Charles C. Turner*. London: Longmans, Green and Co., 1914. xii, 341 p. front., illus., plates. 24 cm. TLB535.H21.

Lasswitz, Kurd, . . . *Auf Zwei Planeten; Roman in Zwei Büchern* . . . Leipzig: B. Elischer, [1914]. 421, 545, [2] p. 19 cm. TLE1041.L34.

## Manuscripts

(in chronological order)

Montgolfier, Abbé Alexandre-Charles. Letter (ALS) 178?, to his sister Marquerite-Thérèse at the Convent of Boulieu, north of Annonay[?]. 2 p. 21 cm. Mostly personal; reference to having been shaken up by hurrying too fast on the previous day in humid conditions. XF-2-1 2382 178?



? An extract from a letter from Paris, 1783 Oct. 20, to [?]. 2 p. 32.5 cm. Facts and statistics on the first three balloon ascents: 1783/8/27, 1783/9/19, 1783? XF-2-1 2393.1783/OCT. 20.

Pilâtre de Rozier, 1754–1785. Letter (ALS) [1784] to someone in the French Government? 4 p. 21.5 cm. Letter of thanks setting out several ideas for future experiments. XF-2-1 2396 [1784].

*Costruzione e gonfiamento ed ascensione degli aereostati.* Ms. in Italian, [1784?]. 5 p. illus. 20 cm. Includes drawings of filling apparatus and tethered balloon. Vendor's ts. note: Molto probabilmente falsificazione. TLB159.C84.

*Memoria fatta da me D. Pavolo Andreani [1763–1823] li 28 febbraio 1784 da servire per li prossimi esperimenti aerostatici.* Ms. in Italian, 1784/2/28. 3 p. illus. 30 cm. With diags. of balloon and equipment. Vendor's ts. note: Molto probabilmente falsificazione. TLB159.M53.

Davesseur, Marquise. Letter (AL) 1784/11/19, to the Marquis de Fourquevaux, Bonrepos (near Aix-en-Provence). 4 p. 18.5 cm. P. 3 has a 12-line discussion of balloon ascensions. XF-2-1 2398 1784/NOV. 19.

Montgolfier, Étienne, 1745–1799. Letter (ALS) 1786/10/27, from Annonay, to the administrators of the Compagnie des Indes, Paris. 2 p. 20 cm. Address on p. [4]. On a shipment of paper; hope to get more orders. XF-2-1 2400 1786/OCT. 27.

Montgolfier, Étienne, 1745–1799. Letter (AL) 1787/1/15, from Annonay to Antoine Boissy d'Anglas, Paris. 4 p. 21 cm. Address on p. [4]. References to Jean-Baptiste Réveillon, the wallpaper manufacturer, and to a mausoleum erected in honor of Pilâtre de Rozier. XF-2-1 2401 1787/JAN. 15.

Oliphant, C. & R. Letter (ALS) and financial account, [1805], from Cockspur Street, Charing Cross, London, to [Vincent] Lunardi. 1 p. 33 cm. References to an account for purchases of hats between 1784 and 1786, presented on his return to England in 1805: “we trust you will not hesitate to favor us with a Draft for the amount [four pounds, three shillings].” XF-2-1 2405 [1805].

Augustin, [?]. Letter (ALS) 1817/4/8, from Lyon, to the Comte de Chabrol, Préfet du Département du Rhône. 2 p. 31.5 cm. Request for permission to make an aerostatic ascension in Lyon. XF-2-1 2414 1817/APR. 8.

Dibdin, Thomas Frognell. Letter (ALS) 1817/7/30, to [?]. 1 p. 24 cm. Discusses the possibility of making a kite fly for three months. XF-2-1 2416 1817/JUL. 30.

*Balloon*. [n.p.], 1821. 2 v. 18 cm. Ms. fictional day-book with many corrections, deletions, and insertions. Following the introductory pages it describes preparations for flight, with witty (?) dialog and “songs” interspersed. There are passages of political and social commentary. The actual flight is covered in three pages. TLB159.B19.

Jeffries, Doctor John, 1745–1819. *Narration des deux voyages aériens du docteur Jeffries & de Monsieur Blanchard, avec des observations météorologiques & des remarques . . .* Par le docteur Jeffries . . . A Londres . . . 1786. Traduite par Sacleu père en 1830. Elegantly written ms. volume. 34 x 26 cm. TLB159.J47. (Trans. of item in the Appendix, Printed Books: 1489-1850; Jeffries, A narrative, 1786. TLB276.J4A31 1786b.)

*The Aerial Ship*. [1835] 17 leaves. Bound. 33 cm. Holograph. The original ms. of an essay on the Comte de Lennox’s airship *The Eagle*, written on backs of letter-wrappers, mostly addressed to Capt. F. Beaufort.

References to the European Aeronautical Society. Includes a detached copy of the text as printed in *Aerial Navigation*. Bookplate and signature of John Lee. TLB159.A24.

Green, Charles, 1785–1870. Letter (ALS) 1840/3/21, from Highgate, London, to Page Nicol Scott (surgeon), Norwich. 4 p. 23 cm. P. 3 blank. Address on p. 4. Thanking him for a gift of aerial documents; invitation to go with him into the pure and serene air. XF-2-1 2423 1840/MAR. 21.

Chapman, J. Letter (ALS) 1843/5/15, from 6A Lisson Grove, London, to H. Luriss[?]. 2 p. 22.6 cm. Criticizes the essay by Hamilton, the 1st ed. of which had been published in 1841 and the 2nd in 1842. (See Hamilton, 1843/5/18.) XF-2-1 2425 1843/MAY 15.

Spencer, Edward. Letter (ALS) 1846/3/9, from [?] to Davison Turner. 4 p. 25.4 cm. Account of his balloon ascents. XF-2-1 2427 1846/MAR. 9.

Green, Charles, 1785–1870. Letter (ALS) 1846/10/9, from the Hôtel de Bavière, to I. G. Flügel, Leipzig. 4 p. 29 cm. In reply to a request for autograph, Green describes his fifteenth ascent (Leipzig); p. 2 is blank; p. 3

is a “Copy” of Flügel’s letter, the copy dated Oct. 7, 1847 [*sic*]; below (in different hand): “Received Oct. 11, 1846. F.” “Mr. Charles George Green”’s card attached to p. 3. Address on p. 4. XF-2-1 2428 1846/OCT. 9.

Andrews, Solomon. Letter (ALS) 1849/3/12, from Perth Amboy, N.J., to John F. Frazee (M.D., Prof., University of Pennsylvania). 1 p. 24.7 cm. Seeks advice on possible difficulties in “navigating the atmosphere.” XF-2-1 2431 1849/MAR. 12.

Beschreibung des Luftschiffes, [von] Karl [?] Rosenfeld. Vienna, 1850/1/5. 2 p. 39 cm. With drawing of an airship on top of the first page. XF-2-1 2432 1850/JAN. 5.

Green, Charles, 1785–1870. Letter (ALS) 1852/11/2, from Holloway to Mr. [Robert] Hollond, Regents Park, London. 2 p. 18 cm. With envelope. P. 2: “Having now made 504 ascents I do not intend ascending again except for scientific purposes. . . .” XF-2-1 2435 1852/NOV. 2.

Seymour, J. [?]. Letter (ALS) [1853?], to the editor of the *New York Sun*. 3 p. 32.5 cm. On the airship and the future of flying. XF-2-1 2439 [1853].

Boyer, C. Letter (ALS) 1858/8/29, from Onondaga, N.Y., to G.C.M. 4 p. 31.5 cm. The third page has a number of expectancies for the future, including the airplane and the wireless. XF-2-1 2442 1858/AUG. 29.

Slocum, H. W. Letter (ALS) 1862/6/14, to General [?]. 4 p. 20.5 cm. P. 3 blank. General McClellan requests that “an intelligent officer make frequent ascensions in the baloon [*sic*].” (See Chapman, 1861.) XF-2-1 2443 1862/JUN. 14.

Craine, J. Letter (ALS) 1858/9/20, from Lockport, N.Y., to “Cousin Andrew.” 2 p. 19 cm. Balloon flight over Lockport, N.Y. XF-2-1 2444 1858/SEP. 20.

Verne, Jules, 1828–1905. Letter (ALS) 1890/2/3, from Amiens to G. F. Griges [= Griggs?; a child or young man], 45 Lauriston Road, South Hackney, London. In answer to a question as to whether there will be a sequel to his novel *Robur le conquérant*, he comments that “one should never abuse aerial journeys.” 1 p. 21 cm. With envelope. Letterhead: Société Industrielle d’Amiens. XF-2-1 2456 1890/FEB. 3.

Langley, Samuel Pierpont, 1834–1906. Letter (TLS) 1898/11/30, from Washington, D.C.,

to Dr. Cyrus Adler, Washington, D.C. 2 p. 20.3 cm. On “Smithsonian Institution” letterhead. Concerning an assistant for Adler. XF-2-2 2509 1898/NOV. 30.

Rathbun, Richard. Letter (TLS) 1903/9/19, from Washington D.C., to Dr. Adler, New York City. 5 p. 20.5 cm. Re published reports about Langley’s statements on his flying machine. XF-2-2 2515 1903/SEP. 19.

Langley, Samuel Pierpont, 1834–1906. Letter (ALS) 1904/7/23, Ontario, to Dr. Cyrus Adler. 2 p. 17 cm. Re “the launch,” “the houseboat,” etc.; preparing the model for flight; letter from Richard Rathbun[?]. XF-2-2 2522 1904/JUL. 23.

Santos-Dumont, Alberto, 1873–1932. Letter (ALS) [1908?] to [?]. 1 p. 19.5 cm. “I may begin the trials of my no. 15 next week; may be on Monday about 4 o’clock.” Printed initials above: A. S-D. XF-2-1 2469 [1908?].

### Prints

(in serial order; symbol © signifies color print)

1009

[Woodcut by Albrecht Dürer] Utrecht. This is a modern reproduction. (XP-XL-1).

1010

[Woodcut by Albrecht Dürer] Utrecht. This is a modern reproduction. (XP-XL-1).

1049

[Le globe aérostatique construit à Versailles] (XP-XL-2).

1064

Expérience aérostatique faite à Versailles le 19 Septembre 1783. Issued by Le Noir; announced in the *Journal de Paris* of October 20, 1783. (XP-XL-2).

1076

Expérience aérostatique faite à Marseille avec un ballon de 50 pieds de diametre portant deux voyageurs aériens. Depicts the launch of a Montgolfier balloon on May 18, 1784, ornamented with an eagle with outstretched wings at the base of the envelope. (XL-2).

1080

Expérience aérostatique faite à Lyon. Paris [1784]. (XP-XL-2).

1084

Aérostat construit par les soins du Marquis de Brantes, d'Avignon. (XP-XL-2).

1086

Le Chateau Royale de Versailles du côté de la grande avenue de Paris. Paris. (XP-XL-2).

1126

Globe aérostatique. De M.<sup>rs</sup> Charles et Robert au Moment de leur départ du Jardin des Tuileries. Paris, [1783?]. (XP-XL-4).

1128

A l'honneur de Mrs. Charles et Robert. Expérience célèbre faites à Paris. Paris, [1783?] (XP-XL-4).

1137

Second voyage aérien. Expérience faite dans le Jardin des Thuilleries par MM. Charles et Robert, le 1<sup>er</sup> xbre, 1783. [Paris, 1783]. (XP-XL-4).

1155

Au balon. [“Charles and Robert over Nesle. Hypothetical identification, based on Gimbel’s grouping.” —Air Force Academy library catalogue. More likely Académie de Dijon/Guyton de Morveau and Abbé Bertrand flight of 25 April 1784.] Apparently the original design for 1288. (XP-XL-4). (Watercolor). ©

1177

Dedicada al Exmo. Señor D. Vicente Maria de Vera de Aragon. 1794. (XP-XL-5).

1199

Charles Echard, Dessiné et gravé. Tour de Calais. Nouvelle Machine Aërostatique construite par M<sup>[rs]</sup>. Romain. Paris, [1784]. Part of title shown in brackets is supplied in ms. This rather imaginative depiction of the balloon flown on June 15, 1785, shows the craft departing from the coast at Calais to cross the Channel to England; the balloon actually flew from near

Boulogne. The *Journal de Paris* of December 26, 1784 (p. 1528) mentions the appearance of this print. (XP-XL-5).

1212

Carte des marches aërographiques, dédiée à M. Charles par . . . Perrier. Paris, [1784?]. Shows routes of balloons launched and flown by Charles (August 27), Montgolfier (September 19, 1783), Pilâtre de Rozier and the Marquis d'Arlandes (November 21, 1783), Charles (December 1, 1783), and Blanchard (March 3, 1784). (XL-6).

1227

Troisième voyage aérien de M. Blanchard. Rouen, [1784?]. (XP-XL-6). ©

1229

[Dover Castle], Pub[lished] Jan[uar]y 1, 1794 by S. W. Fores. An etching with very simple lines, based on the Thomas Rowlandson painting represented in print 1230 in this program. The print depicts the beginning of the flight across the Channel by Jeffries and Blanchard on January 7, 1785. (XP-XL-6).

1235

[La quatorzième experience aerostatique de M. Blanchard, faite à Lille en Flandre le 26 Août 1785.] Proof before letters. Lille, [1785?]. (XP-XL-6). Title taken from the more advanced print 1234, which is colored.

1236

Entrée de Mr. Blanchard et du Chevalier Lepinard, cinq jours après leur Ascension Aerostatique, dans la Ville de Lille, le 16 Août 1785. [Lille?, 1785]. (XP-XL-6).

1242

Dix-huitième voyage aérien. M. Blanchard, citoyen de Calais. [1786]. (XP-XL-6).

1267

Deeble, T. (sculpt.) View of the ascent of Mr. Lunardi's celebrated air balloon from the Artillery Ground Sept. 15th 1784. 1784. The first flight in England is depicted here, at the moment when an oar, devised to row the aircraft through the air, fell to the ground. On Lunardi's oars see print 1274 in this program. Two states of this plate were apparently issued before the event, as they

show the balloon ascending without the falling oar. (XP-XL-7).

1288

Cartes. Vauthier Cartier tient toutes sortes de papiers de France et d'Hollande. [Label]. Image is identical to print 1155, showing Académie de Dijon/Guyton de Morveau/Abbé Bertrand flight of 25 April 1784. (XP-XL-8).

1307

Fete of the Emperor. Illumination and balloon ascent in the Champs Elysées. [1804?]. (XP-XL-9).

1308

Passage de S. M. Louis Dix-huit sur le Pont Neuf, le 3 Mai 1814. (XP-XL-9).

1310

The entrance of his Majesty Louis XVIII into Paris, 3rd May 1814. London, published 1st February 1820. (XP-XL-9).

1329

[Ballon de fête religieuse, lancé à Frascati en 1830.] (“Title supplied from Bruel no. 144.”—Air Force Academy library catalogue.) (XP-XL-9). ©

1342

Brighton. View taken in balloon. Brighton. Vue prise en ballon. Paris, 1846. Top: “Excursions aériennes.” Compare print 1340 in this program, which is a view of Rouen. (XP-XL-9). ©

1364

Descente[?] en Angleterre. [1803?]. (XP-XL-9).

1390

[Discesa in paracadute della Garnerin all'Arena di Milano . . . 1824. “Title and date from Caproni plate 82.” —Air Force Academy library catalogue.] (XP-XL-11). ©

1395

Projet d'un superbe ballon de 120 pieds de diamètre qui doit être enlevé à Dijon. Paris. (XP-XL-11). ©

1426

Montag den 20 Ap. 1846 wird mit dem neuen Gesellschafts LuftBallon. [1846—Air Force Academy library catalogue]. Broadside. (XP-XL-12).

1505

Pennington & Co.s aerial steam ship or composite balloon. Philadelphia, 1850. (XP-XL-14).

1560

Départ du Général Mephitique. (XP-XL-15).

1564

La phisicienne galante. Shows a woman in balloon costume, holding a balloon print, with two balloons in background. At upper left is a man borne aloft by his copious balloon hat. The figures are numbered, and keyed to text at bottom, part of which suggests the sexual utility of the new technology. (XP-XL-15).

1565

Madame la Comtesse de M . . . devant aller voir la fameuse expérience. Depicts a woman in balloon costume rising from the step of her dressmaker's shop. In the background is "the famous demonstration of the

man who could endure an ardent fire without feeling the effects of the heat." Like print 1564, there is a hint of sexual metaphor. (XP-XL-15).

1581

The Day's Folly. Paris, 1783. Similar to print 4628 in this program, but in a circular form. Attributed in Bruel (no. 17): "A Paris chez Tilliard graveur." Shows the "uncle" inside, passing through the window. (XP-XL-15).

1582

L'homme aerostatique: un Physicien ayant construit un bâlon . . . "A Paris chés Crepy rue S. Jacques . . ." Shows the "uncle" outside, in flight. (XP-XL-15).

1625

The national parachute, or John Bull conducted to Plenty & Emancipation. London, 1802. Shows Garnerin-style parachute descending. Basket labeled "sinking fund," top of parachute has banner: "national debt." (XP-XL-16). ©



1627

La Minerve, vaisseau aërien destiné aux découvertes par le professeur Robertson. Die Minerva, ein Luftschiff welches durch Professor Robertson zu einer Entdeckung bestimmt ist. Robertson-type balloon, with rooster on top, facing right; flag has: "Scientiarum Favore." (XL-16).

1635

Wir der—dies Jahr in Europa nicht mehr gefeyerte—  
Napoleons-Tag auf der Insel  
St. Helena. (XP-XL-16). ©

1749

[Aerial ship.] Signed: Pothéy, [?] sc. (XP-XL-18). ©

1801

De Lambert im Wrightflieger über Paris. Leipzig,  
Meissner & Buch. (XP-XL-19).

1838

Pilâtre de Rozier. Paris, [c. 1785]. (XP-XL-20).

1843

[Portrait of Gaston Tissandier.] (XP-XL-20).

1855

Aéroplane monoplan du genre dit "Système Antoinette."  
(Cardboard cut-out model.) Above: Petites constructions.  
Imagerie d'Épinal, no. 1376. (XP-XL-22). ©

1867

Representation of various balloons, with the methods of  
constructing and filling them. C. Cooke, [London],  
February 5, 1790. Similar to print 1362 in this program,  
with additional figures, including four different oars, four  
illustrations of apparatus, and an aerostatic horse and  
rider "which was exhibited at the Pantheon by the  
brothers Enslen." (XL-22).

2000

Expérience du parachute. Paris. With small portrait of  
Garnerin at bottom. (XP-XL-24).

2002

Platz der Crossen Vorstellungen im Prattei. Wien. (XP-  
XL-25). ©

2011

2<sup>e</sup>. Expérience de la Machine Aérostatique par le Docteur Jonathan. Shows the airship leaving the ground, purportedly on January 10, 1784. “Dessiné d’après nature et gravé par Waulstaine et se Vend chez lui au No. 122 en la Cité à Londres.” An expertly engraved print, with an enigmatic authorship; see description of print 2010 in this program. (XP-XL-25).

2014

Pro bono Publico. Robertson-type balloon, with rooster on top facing left; flag bears blank heraldic crest. (XL-15).

2025

Ant. Klauber, after Swebach Defontaines. Sieg bei Fleurus den 26ten Iuny 1794. Perhaps part of a series, numbered xvi on plate, lower right. Shows the battle of Fleurus from the Austrian perspective, with the balloon in background. (XL-25).

2192

Les accidents de l’aérost. Metz, [1875?]. Nineteenth-century cartoon-style summary of dreadful accidents, through the *Zénith* tragedy in 1875. (XP-XL-26). ©

2808

Parc de Bellevue, ascension equestre de Tetu-Brissy, le 10 Brumaire an 7. [Date supplied in ms.] (XB-7-11).

2870

Etienne et Joseph Montgolfier, freres, Nés a Annonay en Vivares. Includes vignettes: Projet d’un monument a elever a M. Charles, and: Carte des premiers Voyages aërostatiques. (XC-10-2M).

2882

Vuë de Versaille, prise du coté de la Chapelle. Paris, chez [Le] Vachet. (XC-10-2M). Shows the ascent of the sheep, cock, and duck on September 19, 1783. Possibly part of a series; see note on print 2878 in this program.

3152

[Montgohill airship *ca.* 1890.] (XL-38). ©

3216

Ascensions aérostatiques les plus remarquables. Text identifies 81 aircraft from Lana’s to Darville’s. Nine balloons appear to be in serious trouble. (XL-33).

3248

L'ascension de Vincent Lonardi venitien à Londres en 1784. Paris, 1790. Shows ascending balloon, with both oars on board. Engraved by Ch. Du Pont[?]; published by V. Levallois. It seems curious that this event would be commemorated six years after the event, when Lunardi was in Naples. Perhaps the print was prepared as propaganda for a failed attempt on March 14, 1790, in Palermo and a successful flight from the same town on July 31. (XL-41). ©

3261

Vincent Lunardi Esqr. Engraved by Francesco Bartolozzi. London, 1784. (XC-10-2A).

3370

Charles aux Thuilleries. Le 1<sup>er</sup> Decembre 1783. Faces left; this is a copy of a print issued by Simon Charles Miger (see print 1821 in this program). (XC-10-2C).

3371

The air balloon, as it ascended with Mr. Lunardi, from the artillery ground, 15th Sep. 1784. London, 1784. (XC-10-2A).

3382

Expérience du globe aërostatique de MM. Charles et Robert, devant le Château des Thuilleries, le 1. xbre 1783. (XC-10-2C). ©

3390

Vue de la prairie de Nesle, situé à 9 lieux de Paris. Paris, chez [Le] Vachez. Shows the landing of the balloon of Charles and Robert on December 1, 1783. Possibly part of a series; see note on print 2878 in this program. (XC-10-2C).

3394

Origineelle Afbeelding van de Lucht Bal, opgelaten in 's Gravenhage in de Tuin van't Oude Hof den 11 December 1783. At head: "In de Mercurius December 1783 p. 220." Depicts small balloon with six sides, shaped like a building. (XC-10-2C).

3433

L'homme aux ballons ou la folie du jour. À Orleans, chez Le Tourmi. Woodcut. Shows a gentleman in "balloon" costume, similar to print 4624 in this program. (XL-15).

3434

Avis très important. On avertit le Public que le Bureau des Diligences Aérienne à commencés ses opérations. Refers to the “Bureau général établi sur la Butte de Mont-martre.” Shows aristocrats being injected with syringes and taking flight. (XL-15).

3441

Principale[s] machine[s] aérostatique[s] construite[s] à Paris, et enlevé[es] dans le courant de 1783. Paris, [1784?]. Part of title shown in brackets is supplied in ms. (XL-2). ©

3446

Ascent of three Persons with a balloon from Vauxhall Gardens 1802. Watercolor. (XL-11).

3448

Graces à Dieu, voilà mon Oncle retrouvé. Les dangers de la Physique. Depicts the outcome of the accidental voyage of the “Uncle” whose beginnings are shown in prints 1581 and 1582. The uncle is returned to the family in a miller’s sack, having been removed from a windmill blade onto which he had fallen. (XL-15).

3482

The Grand Republican balloon, intended to convey the Army of England to the Gallic shore, for the purpose of exchanging French Liberty! for the English Happiness! London, 1798. Robertson-type balloon, with rooster at top facing right; flag has “Liberty.” (XL-15).

4604

La Rentrée du Char Triomphant. Paris, 1784. Charles’ balloon of December 1 is shown returning to Paris atop a cart, still partially inflated and surrounded by men on horseback illuminating the way with torches. The print includes a map of the aerial voyage, sometimes seen as a vignette on prints of the period. “A Paris chés Vachez . . . Quay de Gevres”; on this publisher’s other work see the description to print 2878: “Vuë d’Annonay en Vivarais,” in this program. (XL-4).

4606

Denckmünze aufsteugnung des Luftballons ausgetheilt wurde. [Design for a medal commemorating Baron von Lutgendorf’s ascent in Augsburg, August 24, 1786, which apparently never took place.] (XB-9-2B).

4612

Nouvelles Coëffures en 1785. Paris, 1785. (XL-8). ©

4622

Vue du Château de Douvres; Cinquième Voyage Aërien de M. Blanchard. Paris. Shows Blanchard and Jeffries just after leaving the ground at Dover, with a large crowd of people assembled. "Chez le Vachez, aux Colonnades du Palais Royal No. 206," an address sometimes used by [Le] Vachez in addition to the more regular "Quay de Gevres." This print is probably part of the series mentioned in the description of print 2878 with a title in roman capitals as in print 2893 (both prints in this program). (XL-6).

### **Other Holdings**

#### *Cartoons*

Der Dichter Sperling macht einen Ausflug in das Gebirg. Etching, 20.5 x 17.5 cm. Undated.

The Flight of Intellect. Caricature of a cylindrical flying machine. Portrait of Mr. Golightly experimenting on Mess. Quick & Speed's new patent, high pressure Steam Riding Rocket. London [ca. 1825]. Colored lithograph.

Het Jaar 1804. Satirical prints published in 1794 representing probable events in the aeronautic world ten years hence. Plate I. Depicting the booking office of the famous aeronauts Hopman and Loude. Copyright 1794. Aquatint, 16.5 x 21.6 cm.

Het Jaar 1804. Satirical prints published in 1794 representing probable events in the aeronautic world ten years hence. Plate II. Animated scene, men endeavouring to fill and raise their balloon, "Lust tot Anderzoek." Copyright 1794. Aquatint, 16.5 x 21.6 cm.

The Ascent of the Aerial Balloon. The balloon rising with the Sheep, Duck and Cock in the Basket. Caricature engraving by Lodge. 1783. Engraving, 19 x 10 cm.

The draft / All other methods of evading the draft having failed, the above disgraceful scheme is to be attempted on the 10th [1862]. Engraving, 19 x 12 cm.

#### *Dime Novels*

"Noname." *Frank Reade, Jr. and His Electric Air Yacht; Or, The Great Inventor Among the Aztecs.* The Five Cent Wide

Awake Library. January 3, 1891. Vol. II. No. 1020. New York: Frank Tousey, 1891. Dime novel, 32 p. illus.

“Noname.” *Frank Reade, Jr.’s Greatest Flying Machine; Or, Fighting the Terror of the Coast.* Frank Reade Library. Vol. v. No. 118. New York: Frank Tousey, [c. 1895]. Dime novel, 16 p. illus.

Draper, Allyn. *Lost in the Air; Or Over Land and Sea. Pluck and Luck: Complete Stories of Adventure.* July 13, 1898. No. 14. New York: Frank Tousey, 1898. Dime novel, 32 p. illus.

Arnold, Allan. *The Diamond Island or Astray in a Balloon.* Pluck and Luck: Complete Stories of Adventure. March 20, 1901. No. 146. New York: Frank Tousey, 1901. Dime novel, 32 p. illus.

“Noname.” “Frank Reade, Jr.’s Air Wonder The ‘Kite;’ Or, A Six Weeks’ Flight over the Andes.” *Frank Reade Weekly Magazine.* December 12, 1902. No. 7. New York: Frank Tousey, 1902. Dime novel, 32 p. illus.

“Noname.” “Lost in the Mountains of the Moon; Or, Frank Reade, Jr.’s Great Trip With the ‘Scud.’” *Frank*

*Reade Weekly Magazine.* July 10, 1903. No. 37. New York: Frank Tousey, 1903. Dime novel, 32 p. illus.

Reid, Robert. *Dick Hardy’s School Scrapes Or The Rivals of No. 21. Brave and Bold.* July 7, 1906. No. 185. New York: Street & Smith, 1906. Dime novel, 32 p. illus.

White, Lawrence, Jr. *Tracked Across Europe Or the Clue of the Moving Pictures.* Brave and Bold. July 28, 1906. No. 188. New York: Street & Smith, 1906. Dime novel, 32 p. illus.

Falconer, Kirk. *Cadet, Clyde Conner Or Life at the Military Academy.* Brave and Bold. May 11, 1907. No. 229. New York: Street & Smith, 1907. Dime novel, 32 p. illus.

### ***Excerpts from Newspapers and Periodicals***

“A large, elegant Air-Balloon.” *The Essex Journal and the Massachusetts and New-Hampshire General Advertiser,* July 9, 1784. Clipping, 43 cm.

“Respecting an Air Balloon.” *The Independent Ledger and the American Advertiser,* August 2, 1784. Clipping, 37.5 cm.

“Balloon.” *The Providence Gazette and the Country Journal*, February 19, 1785. Clipping, 37.5 cm.

“Mr. Printer.” *Columbian Centinel*, January 12, 1793. Clipping, 46.5 cm.

“Patent F[ederal] Balloons.” *The Connecticut Courant*, June 2, 1800. Clipping, 53 cm.

“Aerial Excursion.” *The [Boston] Independent Chronicle and the Universal Advertiser*, November 24, 1800. Clipping, 50.5 cm.

“Origin of Balloons.” *The Mercury and New-England Palladium*, September 24, 1802. Clipping, 55 cm.

“Ascent of Mr. Green’s Balloon on Wednesday Night.” *London Illustrated News*, August 25, 1849. Clipping, 40 cm.

Atmospherical phenomena in a balloon ascension. [1853]. Clipping, 15 cm.

“See! they are under the balloon. Good God! they are cutting the ropes!” [1857]. Engraving, 15 x 23.4 cm.

Drifting through the clouds. [1884]. Clipping (18 cm.) with engraving, 16.7 x 13.5 cm.

“Trial of Maxim’s steam flying machine.” *Scientific American*, September 15, 1894, p. 165. Clipping, 38.5 cm.

### *Handbills, Circulars, and Leaflets*

Mr. Blanchard and a lady. [1785]. Broadside, 20 x 17.4 cm.

Most grand and magnificent aerial experiment and diversion, with a parachute, or umbrella’s [*sic*] July 13, 1785. The advertiser (an Italian gentleman) will launch himself from a prodigious altitude, at Mr. Blanchard’s aerostatic academy. [London?]: G. Laidler, [1785?]. Handbill, 24 x 17.5 cm.

Grand fête champêtre by day. A race between two balloons conducted by Mr. [Charles] Green and Mrs. Green against Mr. W. Green, and Mrs. W. Green. [London?]: Balne, Printer, [18??]. Handbill, 18.5 x 15.5 cm.

Melancholy death of Madame Blanchard, at Paris, through her balloon taking fire. London: P. White for the Religious Tract Society, [1819]. Broadside, 45 x 27.5 cm.

Grand ascension. Fifth aerial voyage of Mr. Eugène Robertson, on Saturday, the 9th of July, at Castle Garden [1825?]. Clipping (or handbill), 40 cm.

Castle Garden. Grand night ascension! of Mr. E. Robertson. September 20 [1826] [n.p.]: Joseph C. Spear, Printer, [1826?]. Handbill, 54.5 x 15 cm.

Abbildung des neuen Gesellschafts Ballon genant der Adler von Wien. Wien: H. Zimer [1846?]. Handbill, 28 x 19.3 cm.

Grand, sublime & novel entertainment in a splendid mammoth pavilion. Balloon ascensions by John Wise, the world-renowned aeronaut. Exhibitions of fireworks. Columbus: Maj. J. Burnell, Advertiser, [1852?]. Poster, 62 x 24 cm.

This circular was dropped from the largest balloon that ever ascended from Boston Common, on the 103rd

anniversary of American Independence, July 4, 1879. Boston: Kiley, [1879?]. Handbill, 18 x 10.5 cm.

Grand mammoth balloon ascension. Holyoke, Mass., Monday, May 24, 1880. 16 mammoth balloons in the air at one time [n.p., 1880]. Handbill, 70 cm.

### *Postcards*

“Aviation Meet at Los Angeles, California.” Dominguez Field Air Meet, January 28, 1912. Postcard, 9 x 14 cm.

### *Sheet Music*

*Puss in a parachute, or A gape at the balloon.* Written by G. Colman, Esq. Pall Mall, M. Kelly [18??]. Sheet music (2–3 p.), 30.5 cm.

*Un flot de dentelles.* Valse brillante pour le piano par Antonio Vicini. Paris: A. Vicini, [18??]. Sheet music [cover page], 34 cm.



*Le voyage aérien.* By Gustave Nadaud, written for Mr. Jules Lefort. Paris: Menestrel, [ca. 1840]. Sheet music (2–3 p. ), 32 cm.

*Three Polkas.* Composed by A. Wallerstein. New York: Firth, Pond & Co., ca. 1850. Sheet music (3–5 p.), 32 cm.

*Up in a balloon.* By G. Operti. New York: Wm. A. Pond, [c. 1869]. Sheet music (2–7 p.), 33 cm.

*Sailing in my balloon.* Words by A. J. Mills. Music by Bennett Scott. New York: Francis, Day and Hunter, [c. 1907]. Sheet music (2–5 p.), 34.5 cm.

*The Aviator.* By James M. Fulton. Boston: Ernest S. Williams, [c. 1908]. Sheet music (3–5 p.), 35 cm.

### ***Tickets***

Ascension à ballon perdu, et descente en parachute, de l'aéronaute Garnerin . . . [18??] Ticket, 6 x 9 cm.

Eintritts-Karte. [18??]. Ticket, 9 x 6.5 cm.

Tivoli. Ascension aérostatique et promenade à ballon captif. Des osages. Une Personne. [n.p., 18??]. Ticket, 10.5 x 13 cm.

Ballon dirigeable. Billet de souscription. Bon pour une entrée. Strasbourg, Imp. Manuaire [?] [1834]. Ticket, 11 x 13.5 cm.

The Balloon Society of Great Britain invite[s] . . . to a lecture entitled The parachute & aerial engineering, by Thomas Moy, C.E., to be given January 4th, 1889. Ticket, 7.5 x 11.5 cm.

### **Numismatics**

The Gimbel collection currently holds over 300 items of prized numismatica. This supplementary listing highlights some issues of importance and interest in the Gimbel collection in addition to those described in the illustrated sections of this program.

### ***Balloons***

Count Francesco Zambeccari (1752–1812) — To recognize an early aeronaut. Zambeccari's first flights were from England where citizens considered ballooning to be a French fad and were primarily disinterested. When one of Zambeccari's launches in England failed and spectators rioted, the Count fled to Italy where he made several successful flights. He was killed in a ballooning mishap in September 1812. Obverse: bust of Zambeccari to left. Reverse: legends only. Legends: in Latin. Designer: P. Tadolini. Bronze, struck 53 mm. XM-1 3523.

Chevalier Paulo Andreani (1763–1823) — To commemorate the first balloon ascension made in Italy. From his estate near Milan, on February 25, 1784, Andreani became the first man outside of France to fly. Obverse: classical portrait facing to right. Reverse: balloon entering cloud above. Legends: in Latin. Designer: A. Guillemard. Bronze, struck, 43 mm. Restrikes made in 1934 by Stefano Johnson, medallist, Milan. XM-1 3520.

Gaspard-Félix Tournachon dit Nadar (1820–1910) — To recognize the man who took the world's first aerial photograph from a balloon, *ca.* 1868. He also patented a system of aerial cartography through photography and delivered the first mail via air. Obverse: portrait of

Tournachon. Reverse: view of balloon from below. Legends: in French. Designer: Madeleine-Pierre Querolle. Bronze, struck, 77 mm. Restrike still available from Paris mint. XM-1 3675.

Henri Giffard (1825–1882) — Souvenir of an ascension in Giffard's Captive Grand Balloon. Passengers were able to purchase souvenir medallions of different sizes and prices. Giffard was well known for his steam-powered balloon flight from Paris to Trappes in 1852. Obverse: picture of tethered balloon over Paris, date 1878. Reverse: legends, in French, attesting to ascension with space for individual name and date. Loop at top for mounting. Designer: C. Troitin. Gold finish, struck, 51 mm. XM-1 3502.

Esposizione Nazionale in Milano (1881) — Souvenir of ascension in a tethered balloon at the National Exposition of 1881. Obverse: tethered balloon over city of Milan with cathedral in background. Reverse: legend in Italian identifying event, place, and date. Designer: C. Alvi. Satin silver finish, struck, 46 mm. XM-1 3588.

### ***Dirigibles***

Royal Engineers Balloon School (date unknown) — Royal souvenir issue of the witnessing by the king and queen of England of the flight, in October 1907, of the *Nelli Secundis*, an airship constructed by the British War Department. Sailing from Farnborough to London, around St. Paul's Cathedral and then to the Crystal Palace, the airship maintained a speed of 24 miles per hour. Obverse: conjoined busts of Edward VII and Queen Alexandra. Reverse: airship over London. Legends: in English. Designer: unknown. Copper, struck, 32 mm. XM-1 3495.

Louis Malécot (1871–1943) — To commemorate dirigible flight over Paris by inventor Malécot in 1908. Obverse: portrait of Malécot. Reverse: Malécot airship over Paris. Legends: in French. Designer: Jean-Philippe Roch. Bronze, struck, 68 mm. Restrikes available from Paris Mint. XM-1 3661.

Major August Von Parseval (1861–1942) — To commemorate long-distance dirigible flights 12 to 19 October 1909 between Frankfurt, Nurnberg, Augsburg, Munich, Stuttgart, Mannheim, and Koln. Obverse: portrait of Von Parseval. Reverse: eagle atop dirigible. Legends: in German. Designer: Karl Goetz. Bronze, cast, 65 mm. XM-1 3568.

### ***Heavier-Than-Air Craft***

Aviation Day, New Britain, Conn. (date unknown) — Typical souvenir medalet of early air shows. Sold to raise funds for early fliers. The collection has a number of these early mementos, both in pinback and medallic format. Obverse: pusher in center. Souvenir of Aviation Day, New Britain, Connecticut, July 2, 1910. Reverse: name of manufacturer, T. & H. Mfg., Co., New Britain, Conn. Designer: unknown. Copper, cast, 30 mm. XM-1 3507.