

HPSC1001: History of Science: Dr Simon Werrett

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1.

Fara, P.: Babylon. In: Science: a four thousand year history. pp. 8–15. Oxford University Press, Oxford (2009).

2.

Reiner, Erica: Chapter 1: Babylonian celestial divination. In: Ancient astronomy and celestial divination. pp. 21–37. MIT Press, Cambridge, Mass (1999).

3.

Oppenheim, A.L.: Man and Nature in Mesopotamian Civilization. In: Complete Dictionary of Scientific Biography. pp. 634–666. Charles Scribner's Sons, Detroit, Mich (2008).

4.

Lindberg, D.: Chapter 1 - Science Before the Greeks. In: The beginnings of western science: the European scientific tradition in philosophical, religious, and institutional context, prehistory to A.D. 1450. pp. 1–20. University of Chicago Press, Chicago (2007).

5.

Toulmin, S., Goodfield, J.: Celestial forecasting. In: The fabric of the heavens. pp. 23–65. Hutchinson (1961).

6.

Gregory, A.: The first scientific theories. In: Eureka!: the birth of science. pp. 23–46. Icon, Cambridge (2001).

7.

Lindberg, D.: Chapter 2 - The Greeks and the Cosmos. In: The beginnings of western science: the European scientific tradition in philosophical, religious, and institutional context, prehistory to A.D. 1450. pp. 21–44. University of Chicago Press, Chicago (2007).

8.

Osborne, Catherine: Presocratic philosophy: a very short introduction. Oxford University Press, Oxford (2004).

9.

Lloyd, G. E. R.: Early Greek science: Thales to Aristotle. Norton, New York (1970).

10.

Lloyd, G.E.R.: The physics of the heavenly region. In: Aristotle: the growth and structure of his thought. pp. 133–157. Cambridge University Press, Cambridge (1968).

11.

Barnes, Jonathan: Early Greek philosophy. Penguin Books, London (2001).

12.

Sambursky, S.: The cosmos of Aristotle. In: The physical world of the Greeks. pp. 80–104. Routledge and K. Paul, London (1956).

13.

Plato: Timaeus by Plato (The Internet Classics Archive).

14.

Sloan, P.R.: Natural History 1670-1802. In: Companion to the history of modern science. Routledge, London (1990).

15.

Lindberg, D.: Chapter 8 - Islamic science. In: The beginnings of western science: the European scientific tradition in philosophical, religious, and institutional context, prehistory to A.D. 1450. pp. 163–192. University of Chicago Press, Chicago (2007).

16.

Sivin, N.: Why a Scientific Revolution did not take place in China, or didn't it?

17.

Nathan Sivin: State, Cosmos, and Body in The Last Three Centuries B. C. Harvard Journal of Asiatic Studies. 55, 5–37 (1995). <https://doi.org/10.2307/2719419>.

18.

Fara, P.: Interactions: China, Islam. In: Science: a four thousand year history. pp. 43–67. Oxford University Press, Oxford (2009).

19.

Nomanul Haq, S.: That Medieval Islamic Culture Was Inhospitable to Science. In: Galileo goes to jail, and other myths about science and religion. Harvard University Press, Cambridge, Mass (2009).

20.

Shank, M.H.: That the Medieval Christian church suppressed the growth of science. In: Galileo goes to jail, and other myths about science and religion. pp. 19–27. Harvard University Press, Cambridge, Mass (2009).

21.

Kibre, P., Siraisi, N.G.: The institutional setting: the universities. In: Science in the Middle Ages. pp. 120–144. University of Chicago Press, Chicago (1978).

22.

Brooke, J.H.: Chapter 1- Interaction between science and religion: some preliminary considerations. In: Science and religion: some historical perspectives. pp. 16–51. Cambridge University Press, Cambridge (1991).

23.

Lindberg, D.: Chapters 9 and 10 - The Revival of Learning in the West. In: The beginnings of western science: the European scientific tradition in philosophical, religious, and institutional context, prehistory to A.D. 1450. pp. 193–253. University of Chicago Press, Chicago (2007).

24.

Bartlett, R.: Chapter 2 -The Machine of this World: Ideas of the Physical Universe. In: The Natural and the Supernatural in the Middle Ages: the Wiles lecture given at the Queen's University of Belfast, 2006. pp. 35–70. Cambridge University Press, Cambridge (2008).

25.

Dear, P.: Chapter 2 - Humanism and ancient wisdom: How to learn things in the sixteenth century. In: Revolutionizing the sciences: European knowledge and its ambitions, 1500-1700. pp. 30–48. Palgrave, Basingstoke (2001).

26.

Henry, J.: Why did Copernicus say the earth moves? In: Moving heaven and earth: Copernicus and the solar system. pp. 12–55. Icon, Cambridge (2001).

27.

Daston, Lorraine et. al.: The Cambridge History of Science, Volume 3: Early Modern Science.

28.

Sloan, P.R.: Natural History 1670-1802. In: Companion to the history of modern science. Routledge, London (1990).

29.

Cohen, I. Bernard: The birth of a new physics. Penguin, Harmondsworth (1987).

30.

Daston, Lorraine et. al.: The Cambridge History of Science, Volume 3: Early Modern Science.

31.

Paula Findlen: Jokes of Nature and Jokes of Knowledge: The Playfulness of Scientific Discourse in Early Modern Europe. Renaissance Quarterly. 43, 292–331 (1990).
<https://doi.org/10.2307/2862366>.

32.

Daston, L.: Curiosity in early modern science. Word & Image. 11, 391–404 (1995).
<https://doi.org/10.1080/02666286.1995.10435928>.

33.

Pamela H. Smith: Alchemy as a Language of Mediation at the Habsburg Court. Isis. 85, 1–25 (1994).

34.

Biagioli, M.: Galileo's System of Patronage. History of Science. 28, 1–62 (1990).

35.

Swerdlow, N.: Galileo's discoveries with the telescope and their evidence for the copernican theory. In: *The Cambridge companion to Galileo*. pp. 244–270. Cambridge University Press, Cambridge (1998).

36.

Peter Barker and Bernard R. Goldstein: *Theological Foundations of Kepler's Astronomy*. Osiris. 16, 88–113 (2001).

37.

Finocchiaro, M.A.: That Galileo was imprisoned and tortured for advocating Copernicanism. In: *Galileo goes to jail, and other myths about science and religion*. pp. 68–78. Harvard University Press, Cambridge, Mass (2009).

38.

Brooke, John Hedley: *Science and Religion: Some Historical Perspectives*. Cambridge University Press, Cambridge (1991).

39.

Drake, S.: Chapter 4 - Conflicts with astronomers and theologians. In: *Galileo*. pp. 53–72. Oxford University Press, Oxford (1980).

40.

Werrett, Simon: Chapter 2: Philosophies of fire: pyrotechny as alchemy, magic and mechanics. In: *Fireworks: pyrotechnic arts and sciences in European history*. pp. 47–72. University of Chicago Press, Chicago (2010).

41.

The New Atlantis by Francis Bacon.

42.

Dear, Peter Robert: Revolutionizing the sciences: European knowledge and its ambitions, 1500-1700. Palgrave, Basingstoke (2001).

43.

Dear, Peter Robert: Revolutionizing the sciences: European knowledge and its ambitions, 1500-1700. Palgrave, Basingstoke (2001).

44.

Steven Shapin: The House of Experiment in Seventeenth-Century England. *Isis*. 79, 373-404 (1988).

45.

Werrett, Simon: Wonders Never Cease: Descartes's 'Météores' and the Rainbow Fountain. *The British Journal for the History of Science*. Vol. 34, 129-147.

46.

Wilson, Catherine: Visual Surface and Visual Symbol: The Microscope and the Occult in Early Modern Science. *Journal of the History of Ideas*. 49, 85-108.

47.

Review by: Deborah Jean Warner: What Is a Scientific Instrument, When Did It Become One, and Why? *The British Journal for the History of Science*. 23, 83-93.

48.

Bennett, Jim: Presidential Address: Knowing and Doing in the Sixteenth Century: What Were Instruments For? *The British Journal for the History of Science*. 36, 129-150.

49.

Hankins, Thomas L., Silverman, Robert J.: Instruments and the imagination. Princeton University Press, Princeton, N.J (1995).

50.

Van Helden, Albert: The Telescope in the Seventeenth Century. Isis. 65, 38–58.

51.

Daston, Lorraine et. al.: The Cambridge History of Science, Volume 3: Early Modern Science.

52.

David Kubrin: Newton and the Cyclical Cosmos: Providence and the Mechanical Philosophy. Journal of the History of Ideas. 28, 325–346.

53.

Dobbs, B. J. T.: Newton's Alchemy and His Theory of Matter. Isis. 73, 511–528.

54.

Sloan, P.R.: Natural History 1670-1802. In: Companion to the history of modern science. Routledge, London (1990).

55.

Sloan, P.R.: Natural History 1670-1802. In: Companion to the history of modern science. Routledge, London (1990).

56.

Koyré, Alexandre: Newtonian studies. Chapman & Hall, London (1965).

57.

Koerner, Lisbet: Linnaeus' Floral Transplants. *Representations*. 144–169.

58.

Sloan, P.R.: *Natural History 1670-1802*. In: *Companion to the history of modern science*. Routledge, London (1990).

59.

Bowler, P.: *Nature and the Enlightenment*. In: *The Fontana history of the environmental sciences*. pp. 139–192. Fontana, London (1992).

60.

Hankins, T. L.: *Natural history and physiology*. In: *Science and the Enlightenment*. Cambridge University Press, Cambridge (1985).
<https://doi.org/10.1017/CBO9781316036402.006>.

61.

Schaffer, Simon: *Herschel in Bedlam: Natural History and Stellar Astronomy*. *The British Journal for the History of Science*. 13, 211–239.

62.

Schaffer, S.: *Natural Philosophy and Public Spectacle in the Eighteenth Century*. *History of Science*. 21, 1–43 (1983). <https://doi.org/10.1177/007327538302100101>.

63.

Heilbron, J. L.: *The case of electricity*. In: *Elements of early modern physics*. pp. 159–240. University of California Press, Berkeley (1982).

64.

Stewart, Larry: Public Lectures and Private Patronage in Newtonian England. *Isis*. 77, 47-58.

65.

Porter, Roy et. al.: *The Cambridge History of Science, Volume 4: Eighteenth-Century Science*.

66.

Outram, Dorinda: *The Enlightenment*. Cambridge University Press, Cambridge (2013).

67.

Porter, Roy et. al.: *The Cambridge History of Science, Volume 4: Eighteenth-Century Science*.

68.

Sloan, P.R.: *Natural History 1670-1802*. In: *Companion to the history of modern science*. Routledge, London (1990).

69.

Daston, Lorraine et. al.: *The Cambridge History of Science, Volume 3: Early Modern Science*.

70.

Findlen, Paula: *Science as a Career in Enlightenment Italy: The Strategies of Laura Bassi*. *Isis*. 84, 441-469.

71.

Schiebinger, Londa: *The Anatomy of Difference: Race and Sex in Eighteenth-Century*

Science. *Eighteenth-Century Studies*. 23, 387–405.

72.

Porter, Roy et. al.: *The Cambridge History of Science, Volume 4: Eighteenth-Century Science*.

73.

Sivasundaram, S.: Sciences and the Global: On Methods, Questions, and Theory. *Isis*. 101, 146–158 (2010). <https://doi.org/10.1086/652694>.

74.

Porter, Roy et. al.: *The Cambridge History of Science, Volume 4: Eighteenth-Century Science*.

75.

Delbourgo, J.: *Sir Hans Sloane's Milk Chocolate and the Whole History of Cacao*.

76.

Fara, Patricia: *Sex, botany & empire: the story of Carl Linnaeus and Joseph Banks*. Columbia University Press, New York (2003).

77.

Roberts, L.: The death of the sensuous chemist: The 'new' chemistry and the transformation of sensuous technology. *Studies In History and Philosophy of Science Part A*. 26, 503–529 (1995). [https://doi.org/10.1016/0039-3681\(95\)00013-5](https://doi.org/10.1016/0039-3681(95)00013-5).

78.

Porter, Roy et. al.: *The Cambridge History of Science, Volume 4: Eighteenth-Century Science*.

79.

Mokyr, Joel: The Intellectual Origins of Modern Economic Growth. *The Journal of Economic History*. 65, 285–351.

80.

Crosland, M.: Chemistry and the chemical revolution. In: *The Ferment of knowledge: studies in the historiography of eighteenth-century science*. pp. 389–416. Cambridge University Press, Cambridge (1980). <https://doi.org/10.1017/CBO9780511572982.011>.

81.

Crosland, M.: Antoine-Laurent Lavoisier: the chemical revolution. In: *Man masters nature: 25 centuries of science*. pp. 101–113. BBC Books, London (1987).

82.

Knight, D.: Romanticism and the sciences. In: *Romanticism and the sciences*. pp. 13–24. Cambridge University Press, Cambridge (1990).

83.

Knight, D. M.: German science in the romantic period. In: *The emergence of science in Western Europe*. pp. 161–178. Macmillan, London (1975).

84.

Holmes, R.: Chapter 8: Davy and the lamp. In: *The age of wonder: how the Romantic generation discovered the beauty and terror of science*. pp. 337–380. HarperPress, London (2008).

85.

Dettelbach, Michael: Alexander von Humboldt between Enlightenment and Romanticism. *Northeastern Naturalist*. 8, 9–20 (2001).

86.

Nicholson, Malcolm: Alexander von Humboldt and the Geography of Vegetation. In: Romanticism and the sciences. pp. 169–188. Cambridge University Press, Cambridge (1990).

87.

Outram, Dorinda: The Enlightenment. Cambridge University Press, Cambridge (2013).

88.

Osborne, Catherine: Presocratic philosophy: a very short introduction. Oxford University Press, Oxford (2004).