

TE X N H .

THEORETICAL FOUNDATIONS OF ARTS, SCIENCES AND TECHNOLOGY IN THE GRECO-ROMAN WORLD

ORGANIZED BY
THE CENTRE FOR ANCIENT PHILOSOPHY AND THE CLASSICAL TRADITION
NOVOSIBIRSK STATE UNIVERSITY
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Spring Session
May 1–9, 2011

OUTLINE OF THE COURSES AND RECOMMENDED READINGS

Eugene Afonasin

May 1

ANCIENT SCIENTIFIC WORKS.

The Derveni Papyrus and Early Greek science

Bibliography

- Афонасин Е. В., пер. (2008) Папирус из Дервени, ΣΧΟΛΗ 2.2 (2008)
<http://www.nsu.ru/classics/schole/2/2-2-pderveni.pdf>
- Афонасин Е. В. (2009) «Диоген из Аполлонии», ΣΧΟΛΗ 3.2
<http://www.nsu.ru/classics/schole/3/3-2-diogen.pdf>
- Bernabé A., ed. (2007) *Poetarum Epicorum Graecorum Testimonia et Fragmenta*, pars II: Orphicorum et Orphicis similium testimonia et fragmenta, fasc. 1–2 (Stuttgart–Leipzig), fasc. 2: 183–269
- Betegh G. (2004) *The Derveni Papyrus: Cosmology, Theology, and Interpretation* (Cambridge) 4–55
- Janko R. (2001) “The Derveni Papyrus (Diagoras of Melos, *Apopyrgizontes logoi?*): a new translation”, *Classical Philology* 96, 1–32
- Graham D. (2006) *Explaining the Cosmos. The Ionian Tradition of Scientific Philosophy* (Princeton and Oxford)
- Gregory A. (2007) *Ancient Greek Cosmology* (London)
- Kirk G. S., Raven J. E., Schofield M. (1983) *The Presocratic Philosophers* (Cambridge)
- Kouremenos Th., Parássoglou G. M., Tsantsanoglou K., eds. (2006) *The Derveni Papyrus* (Florence)
- Laks A., Most G., eds. (1997) *Studies in the Derveni Papyrus* (Oxford) 9–22
- Laks A. (2007) *Histoire, doxographie, vérité. Etudes sur Aristote, Théophraste et la philosophie présocratique* (Louvain)
- Laks A. (2008) *Diogène d'Apollonie*. Edition, traduction et commentaire des fragments et témoignages (Sankt Augustin)
- Sider D. (2005) *The Fragments of Anaxagoras* (Sankt Augustin)

Andrei Shetnikov and Eugene Afonasin

**THEORETICAL FOUNDATIONS OF ANCIENT MATHEMATICS.
PART II: ARCHIMEDES ON THE METHOD**

May 2–4

Bibliography

Netz R., W. Noel (2007) *The Archimedes Codex*. De Capo Press

Netz R., ed. (2004) *The Works of Archimedes*: Vol. 1. Cambridge UP

Thomas I., ed. (1993) *Greek Mathematics*, vols. 1-2, Harvard UP, 1993, vol. 2, pp. 18ff

Heath T. (1897, and reprints). *The Works of Archimedes*

Веселовский И. Н., Б. А. Розенфельд, ред. (1952) *Сочинения Архимеда*. Москва

www.archimedespalimpsest.org

http://www.znanie-sila.ru/news/issue_120.html

Teun Tieleman (Utrecht)

May 2–3

Seminar I:

Stoicism: An Ancient Technique of Life and Its Present-Day Appeal

- 1: (a) The School: Origin, Development and Personalities; (b) doctrine: conception of philosophy as an ‘art with regard to life’. General world-view (natural philosophy including theology).
- 2: (a) Epistemology and logic; (b) moral philosophy: fundamentals.
- 3: (a) moral philosophy, continued: emotions and their cure; (b) examples of present-day influence: what does Stoicism have to teach us today?

May 4 and 6

Seminar II:

Galen of Pergamon on the Art of Medicine

- 1: Galen on Medicine as an Art (*technê*); His Theory of the Human Body.
- 2: Galen as a Medical Practitioner: Clinical Cases.

Recommended sources:

1. A selection from the Stoics and Galen
2. Plato. *Theaetetus* (knowledge); passages from Plato and Aristotle illustrating the confrontation between philosophy and rhetoric (and hence the process of self-definition of philosophy). Cf. also Galen, *Exhortation to the Study of Medicine*.

Literature

Basic

- Hankinson, R. J., (2008) *The Cambridge Companion to Galen*. Cambridge UP
Inwood, B. (2003) *The Cambridge Companion to the Stoics*. Cambridge UP
Nehamas, A. (2000) *The Art of Living. Socratic reflections from Plato to Foucault*. Berkeley
Tieleman, T. L. (1996) *Galen and Chrysippus On the Soul. Argument and Refutation in the De Placitis Books II-III*. Leiden
Tieleman, T. L. (2003) *Chrysippus On Affections. Reconstruction and Interpretation*. Leiden

Additional

- De Lacy, P. (1978–84) *Galen De placitis Hippocratis et Platonis (CMG v 4, 1, 2)*. Berlin
Edelstein, E. J. and Edelstein, L. (1945), *Asclepius*, 2 vols., Baltimore (reprinted with a new introduction by G. Ferngren, Baltimore, 1998)
Griffin, M. and Barnes, J. (1989). *Philosophia Togata*. Oxford
Hankinson, R. J., ed. (1988) *Method, Medicine and Metaphysics*. Edmonton (APEIRON 21.2)
Hankinson, R. J. (1987) 'Evidence, externality and antecedence', *Phronesis* 32, 80–100
Hankinson, R. J. (1991a), *Galen. On the Therapeutic Method*, Oxford
Hankinson, R. J. (1991b), 'Greek medical models of mind', in S. Everson (ed.), *Psychology*, Cambridge, 194–217
Hankinson, R. J. (1995), 'The growth of medical empiricism', in D. Bates (ed.), *Knowledge and the Scholarly Medical Tradition*, Cambridge, 59–83
Hankinson, R. J. (1998a), *Cause and Explanation in Ancient Greek Thought*, Oxford
Hankinson, R. J. (1998b), *Galen. On Antecedent Causes*, Cambridge
Longrigg, J. (1993) *Greek Rational Medicine: Philosophy and Medicine from Alcmaeon to the Alexandrians*. London
Nutton, V. (2004) *Ancient Medicine*. London
Phillips, E. D. (1973) *Greek Medicine*. London
Schiefsky, M., ed. (2005) *Hippocrates. On Ancient Medicine*. Leiden
Tieleman, T. L. (1991), 'Diogenes of Babylon and Stoic embryology: Ps.Plutarch, *Plac.* v 15.4 reconsidered', *Mnemosyne* 44, 106–25
Tieleman, T. L. (2001), 'Galen on the seat of the intellect: anatomical experiment and philosophical tradition', in C. J. Tuplin and T. E. Rihll (eds.), *Science and Mathematics in Ancient Greek Culture*, Oxford, 256–73
Van Der Eijk, P. (2005) *Medicine and Philosophy in Classical Antiquity*. Cambridge
Walzer, R., Frede, M., ed. (1985) *Galen, Three Treatises on the Nature of Science*, translated by R. Walzer and M. Frede, with an introduction by M. Frede, Indianapolis, 1985

Michael Chase (Paris)

May 4–8

THE CLASSICAL HERITAGE AND CONTEMPORARY SCIENCE :

Discussions on the Eternity of the world in Late Antiquity and contemporary cosmology

In this course, we will try to follow the development of a series of problems in classical Greek philosophy concerning time, motion, infinity, and change, as they are taken up and utilized, at the end of Late Antiquity, by the Neoplatonist philosophers Simplicius and Philoponus in their debate over whether the world is eternal or created. Two lectures shall be given, one, entitled “Pagans vs. Christians in Late Neoplatonism : Simplicius and Philoponus on the Eternity of the World”, will provide the historical and philosophical background to the debate, and another, entitled “Instantaneous change and *creatio ex nihilo* in the Greek, Arabic, and Latin traditions”, giving a more conceptual overview of the issues. These lectures will be interspersed with reading

courses in which we shall study texts, with translations, from Plato, Aristotle, Simplicus and Philoponus, with perhaps the occasional Medieval Latin and Arabic text as well.

Bibliography

- Davidson, Herbert A., (1987) *Proofs for Eternity, Creation and the Existence of God in Medieval Islamic and Jewish Philosophy*. Oxford
- Sorabji, Richard, ed. (1987) *Philoponus and the Rejection of Aristotelian Science*, London/Ithaca: Cornell University Press
- _____, (1988) *Matter, Space, & Motion. Theories in Antiquity and their Sequel*, London: Duckworth
- _____, ed. (1990) *Aristotle Transformed, the ancient commentators and their influence*, London: Duckworth, 1990.
- Wildberg, Christain (1987) *Philoponus, Against Aristotle on the Eternity of the World*. London

Alexander Podosinov (Moscow)

May 4 and 6

1. ANCIENT CARTOGRAPHY

2. WHERE ODYSSEUS TRAVELLED: THE WORLD PICTURE IN ARCHAIC GREECE

Bibliography (cf. [a detailed list](#))

- Ельницкий Л.А. Древнейшие океанические плавания. М., 1962
- Подосинов 1999 – Подосинов А.В. EX ORIENTE LUX! Ориентация по странам света в архаических культурах Евразии. М.
- Подосинов 2002 – Подосинов А.В. Восточная Европа в римской картографической традиции. Тексты, перевод, комментарий. М.
- Aujac G. (2001) *Ératosthène de Cyrène, Le pionnier de la géographie. Sa mesure de la circonférence terrestre*. Paris
- Berthon S., Robinson A. *The Shape of the World: The Mapping and Discovery of the Earth*. London, 1991.
- Black 2005 – Black J. *Geschichte der Landkarte: von der Antike bis zur Gegenwart*. München.
- Cusset C., Frangoulis H., eds. (2008) *Ératosthène: un athlète du savoir*. Saint-Étienne
- Dilke 1985 – Dilke O.A.W. *Greek and Roman Maps*. London.
- Duane W. Roller, ed. (2010) *Eratosthenes' Geography (fragments collected and translated, with commentary and additional material)*. Princeton/Oxford: Princeton University Press
- Frame D. *The Myth of Return in Early Greek Epic*. New Haven; London, 1978
- Geus K. (2002) *Eratosthenes von Kyrene. Studien zur hellenistischen Kultur- und Wissenschaftsgeschichte*. München
- Romm J. S. *The Edges of the Earth in Ancient Thought: Geography, Exploration, and Fiction*. Princeton (NJ), 1992
- Rousseau-Liessens A. *Géographie de l'Odyssée. I-III*. Bruxelles, 1962-1964
- The History of Cartography* 1987 – *The History of Cartography* / Ed. by J.B.Harley and David Woodward. Chicago and London. Vol. I. Cartography in Prehistoric, Ancient, and Medieval Europe and Mediterranean.
- Thomson 1948 – Thomson J.O. *A History of Ancient Geography*. Cambridge.