A Seminar in HOPOS (History of Philosophy of Science)  
Led by Nancy CARTWRIGHT  
Winter 2018

In this seminar we shall look at central works that have shaped our contemporary thinking in philosophy of science, as well as some recent views growing out of them.

It should satisfy both philosophy of science and history requirements for Philosophy graduate students and be accessible, and hopefully of use, to Science Studies graduate students. Many of the readings are taken from Theodore Schick’s *From Positivism to Postmodernism* (TS) and Boyd, Gaspar, and Trout’s *The Philosophy of Science* (BGT).

Students will be expected to do one presentation, with PowerPoint (for practice at this) and submit one tightly crafted 3000-word paper, on the same or a different topic.

Week 1, Jan 12  
Science vs non-science: What – if anything – is the scientific method?  
Nancy Cartwright will present her Eastern APA Lebowitz Prize lecture. To be followed by a discussion of (short!) classic pieces on the topic from TS: Ayer, Popper, Kuhn, Lakatos. [Please read these in advance]

Week 2, Jan 19  
The theory/observation distinction, part 1  
Carnap, Hesse, Hanson, Kuhn from TS

Week 3, Jan 26  
The theory/observation distinction, part 2  
Bridgman from BGT and Herbert Feigl’s reply, ‘Operationism and Scientific Method’ [1945, *Psychological Review* (52(5)), 250], van Fraassen from TS [ch 34], Churchland pp 275&276 from TS, Hacking ‘Do we see through a microscope’ [1981, *Pacific Phil. Qtrly*, 62(4)]

Week 4, Feb 2  
Feminism in philosophy of science, part 1  

Week 5, Feb 9  
Feminism in philosophy of science, part 2  

Week 6, Feb 16  
Laws

Week 7, Feb 23 Scientific inference, part 1
Hempel, Popper, Duhem, Lipton from TS, Popper from Boyd

Week 8, 2 March Evidence in science

Week 9, March 8
Realism, part 1: instrumentalism and pragmatism
P Duhem, Aim & Structure of Physical Theory Part 1, Ch II and Part 2, CH V, H Chang, ‘???’

Week 10, Realism, part 2: constructive empiricism and structural realism