A set of ideas and beliefs: generally refering to political or social theory

Science and Ideology

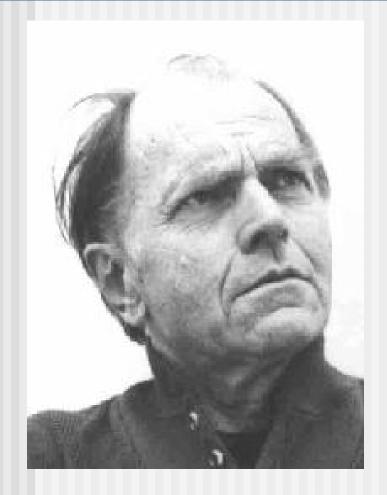
Feyerabend's anarchistic view of science

Creationism debate

Literature:

Feyerabend; "How to defend society against science" Kitchner, "Believing where we cannot prove" Chalmers

Paul Feyerabend



"Against Method:
Outline of an
Anarchistic Theory of
Knowledge" London
New Left Books,
1975

Against Method (1975)

- Wants to defend society against ideologies
- Suggests that 17th and 18th century science was an instrument of liberation (breaks hold the comprehensive system of thought) and enlightenment (made man question inherited beliefs)
- Claims that modern science has deteriorated into a «stupid religion»
- «Science, with all its reductionism and materialism, has deprived man of his special status—only an idea of culture that excludes science can restore man's dignity» (Nietsche)

Feyerabend on Science and Religion

Scientific «facts» are taught at a early age and in the same way re «facts» were taught a century ag

 Science doesn't receive the critic society gets even at elementary

The judgement of the scientists is RICHARD in much the same way as the bisi DAWKIN cardinal was accepted.

Science has become as oppressive to the ideologies it once had to fight. He delusion science are sanctioned

RICHARD DAWKINS
THE
GOD
ELUSION

deborah.oughton@umb.no

Feyerabend's Argument

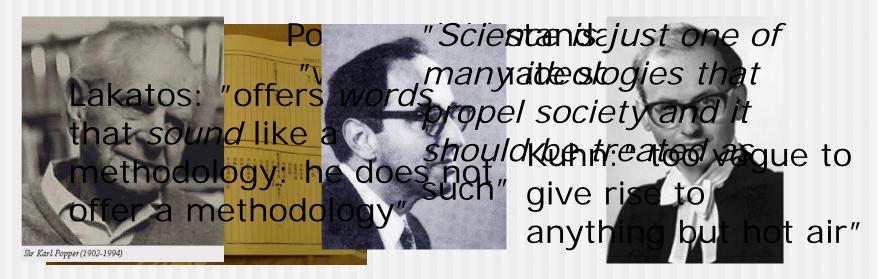
Two common arguments to defend the exceptionalist position that science has in society today:

- 1) That science has found the correct *method* for achieving results
- 2) That there are many *results* to prove the excellence of the method

Feyerabend's Argument

Feyerabend:

- 1) There is no such method
- 2) Only holds if it can be taken for granted that nothing else has produced results

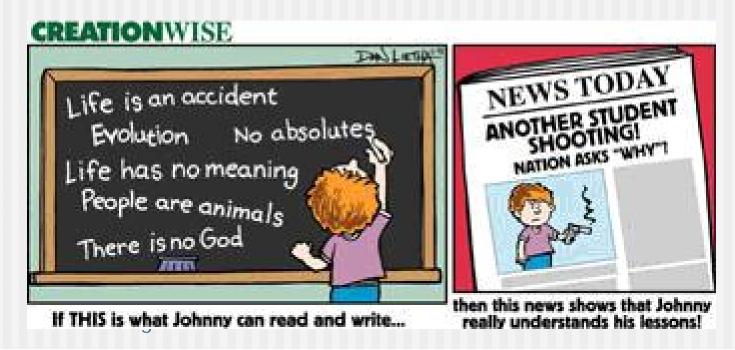


"Anything Goes"

- " A truth that reigns without checks and balances is a tyrant who must be overthrown, and any falsehood that can help us in the overthrow of this tyrant is to be welcomed"
- "Three cheers to the fundamentalists of California who succeeded in having a dogmatic formulation of evolution removed from the textbooks and an account of Genesis included"

Science and Religion: Creationists

- deny that evolutionary theory is a science
- state that evolution is just a statement of faith
- suggest that evolution theory is less well supported by evidence as compared to other scientific theories



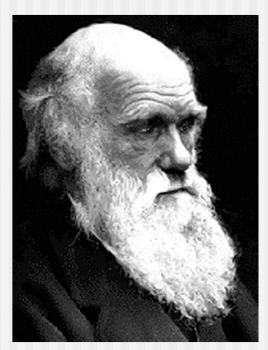
Darwin's theory of Evolution

Started his arguments from lawlike statements

- For any given species of organisms they will be found to have a tendency to increase their numbers at a geometrically high rate
- In each generation there is a differential reproduction of organisms
- The survival of the successful organisms is in part a function of the characteristics that they, unlike unsuccessful organisms, possess.

Then deduced that:

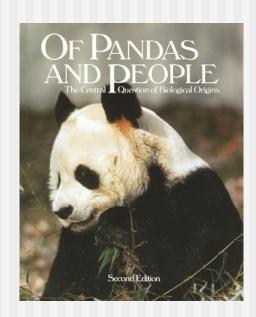
The different chances of survival of differently endowed offspring accounts for the natural evolution of species. Nature "selects" those members of a species best adapted to the environment in which they find themselves.



Other cases

Kitzmiller and Dover (2006). Judge Jones ruled that Dover school board's decisions to mention ID to ninth-grade biology evolution students as an alternative aterie Darwinian theory factorillation and factories to the most Dr Pandangson this pie as a referishee source vine and the construction of the property o

uncon avellonal origin of the land or textbooks that warned:



Intelligent Design

Proponents assert that the workings of this planet are too complex to be ascribed to evolution. There must have been a designer working to a plan – that is, a creator



Touched by His Noodly Appendage Niklas Jansson (2005) Church of the Flying Spaghetti Monster

Creationist Museums

CREATION MUSEUM

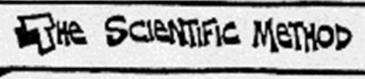
Prepare to believe.



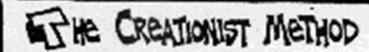
http://creationmuseum.org

deborah.oughton@umb.no

MNSES9100



Here are the facts. What conclusions can we draw from them?



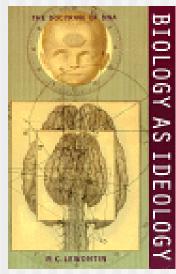
HERE'S THE CONCLUSION.
WHAT FACTS CAN WE FIND
TO SUPPORT IT?

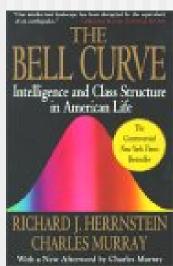




Other examples of ideologies?

- Genetics and eugenics
- Genetic determinism: "nature vs nurture"
- Alternative medicine





Potential threats to scientific objectivity?

Objectivity

- Complicated by many definitions/antonyms
 - Ontological: Objective v. Subjective (existing independently of the scientist)
 - Epistemological: Objective v. False (truth, universality)
 - Methodological: Objective v.
 Biased/Value-laden (unbiased, without presupposition, non-ideological)

Descriptive and Normative Statements

- Descriptive ("is" statements): Describe states of affairs (As, Bs, Cs), explain how they are linked.
- Normative ("ought" statements): Some form of claim as to which state of affairs is "best" A, B or C; what the "goal" is. Advice on how one ought to go about getting to A, B or C. Most commonly, and controversially, taken to relate to morality or ideology.

Descriptive and Normative Sciences

- Physiology and medicine
- Ecology and conservation biology
- Anthropology and sociology
- Nuclear physics and nuclear power development



