# Scientific Problems for Scientism

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\*\* Power Point version of a paper by the same title published in *Presbyterion* in the Fall issue 1995.

See the paper for references and further details.

## Various Terms for Scientism

#### **\*** Scientism

• Science is the only valid way of knowing.

### **\*** Materialism

• All is matter, or matter-energy.

### 🗱 Naturalism

• All is nature; there is no supernatural.

#### Evolutionism

All things have developed by unguided natural processes.

 No God has intervened miraculously to make things the way they are. Influence of Scientism **\*** Liberal Biblical Criticism • Explain the Bible without miracles. **\*** Darwinian Evolution • Explain nature without divine intervention. **\*** Marxism • Explain history and society by economics. **\*** Freudianism • Explain mankind without soul or spirit.

# The Problems Scientism Faces

\*\* Prediction
\*\* Continuity
\*\* Mindlessness
\*\* Eternality
\*\* Locality

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## Prediction

### "I have no need of that [the God] hypothesis" Laplace

**The Laplacean Program:** Calculate the entire future of the universe by knowing the position and velocity of all its particles at one time.

## How Much Computing Power?

- **\*** There are  $10^{80}$  particles in the universe.
- Each particle exerts one or more forces on (nearly) all other particles.
- It is more economical to build a parallel universe as a model!
- Must give each particle its proper position and velocity.
- \* Problem of quantum uncertainty.
- \* Problem of the "butterfly effect."

## Conclusion re/ Prediction

\* The Laplacean Program is dead!
\* Contrast the Christian worldview:
• God alone knows the future.
• He can intervene, and He surely has.
• He can answer prayer.
• He can fulfill prophecy.

## Continuity

- Scientism has an antagonism for, and fear of, gaps or singularities in nature.
- Darwin no discontinuites in biology if the history of life is taken into account.
- Reaction of biologists to Goldschmidt in the 1940s for his "hopeful monster" model.
- \* Proposal of punctuated equilibria model of Gould & Eldridge.

Problems with Continuity
\* The "trade secret of paleontology" – gaps in the fossil record
\* Over 200 million fossils catalogued in museums
\* A "random walk" between major kinds?

\* The "shape" of the fossil record

### Conclusions on Continuity

- \* A "god of the gaps" or a "natural law of the gaps"?
- \* Lack of evidence or evidence of lack?
  \* Discontinuities point beyond mere natural law.

### Mindlessness

- Minds only arise by evolution in a mindless universe (according to scientism).
- \* Darwin's work is hailed as destroying Paley's arguments from design to a Designer.
- Design is only apparent, being produced by natural selection.

But design appears in inanimate nature also!

Fine-Tuning in the Basic Forces **\*** Strong Interaction • Tuned to 🕅 5% **\*** Weak Interaction ◆ Tuned to ☑ few % **#** Gravity & Cosmic Expansion • Tuned to 1 part in  $10^{60}$ **#** Electromagnetism • Charges balance to better than 1 part in 10<sup>40</sup>

**Designed Earth? \*** Rotation period **\*** Distance from sun **\*** Thickness of crust **\*** Atmosphere **Size** of moon **\*** Size of Jupiter **\*** About 60 more such items

## Conclusions on Mindlessness

Design in inanimate nature
Design in animate nature
Insufficient probability in 1000s of universes

Minds can construct order that would never happen by chance

## Eternality

- \* According to scientism, the universe must somehow be eternal.
- Sagan "The cosmos is all that ... ever was..."
- \*\* But the history of cosmology in the past century has been that of increasingly frantic attempts to avoid a beginning in the face of mounting evidence for one.

Cosmology \* Eternal static universe **\*** Expanding universe **\*** Steady-state universe **\*** One-bounce big-bang **\*** Oscillating big-bang **\*** No-bounce big-bang \* Pop-into-existence-w/o-a-cause big-bang

## Conclusions on Eternality

- \* What is eternal is not confined to this universe.
- \* What is eternal has the characteristics of mind.
- \* What is eternal is an adequate cause for the universe.
- \* This sounds like the God of the Bible!

# Locality

- Materialism naturally favors local interaction of particles (bumping).
- Even Newton's gravitational field was initially viewed with great suspicion, but came to be seen as local interaction of the particle with the field.
- \* Quantum phenomena have put pressure on this, suggesting instantaneous interaction at great distances.

## Quantum Phenomena & Locality **\*** The Two-Slit Experiment • Which slit does the particle pass through? **#** Bell's Theorem • If quantum phenomena are real, then the universe is not local. **\*** Aspect's Experiment • Particle spin shows instantaneous knowledge at large distances.

## Conclusions

#### **\*** Prediction

- Laplace's program has collapsed.
- **\*** Continuity
  - Darwinism is inadequate.
- Mindlessness
  - Does not explain known design.
- ✷ Eternality
  - Universe looks like it had a beginning.
- \* Locality
  - Quantum phenomena are non-local.

# A Designed Universe \* Looks structured to point beyond itself. **\*** Unpredictable to show human limitation? **\*** Discontinuous to show divine intervention? \* Planned to show a mind behind it? \* Finite to point to the infinite beyond it? \* Non-local to point to the omnipresent God?

### The End of Scientism?

### Universe Looks Theistic

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