EVOLUTION LECTURE

I. DARWIN AND NATURAL SELECTION

- A. The Controversy
 - 1. Gradualism
 - 2. Punctualism
 - "Creationism"

B. Historical Background

- 1. Discovery of new life forms
- 2. Discovery of fossils
- 3. Need to explain the discoveries

C. The Role of Darwin

- 1. Beagle voyage from age 22-27
- 2. The diversity and distribution of life forms
- 3. Evidence of variation from a common ancestor

D. Natural Selection

- 1. Mechanism for variation
- 2. Malthus and "Survival of the Fittest"
- 3. Artificial selection

E. Acceptance of Evolution by Natural Selection

- 1. Victorian Society
- 2. Explanatory power

II. THREE CENTRAL QUESTIONS

- A. The Fossil Record and Transitional Types
- B. Mechanism for Speciation (Beyond Variation)
- C. The Origin and Development of Adaptations, Integration and Complexity

III. GRADUALISM VS PUNCTUALISM

A) The Fossil Record

- 1) The nature of the fossil record
 - a) The only objective source of evidence
 - b) Quick burial in water-borne sediments.
 - c) Catastrophic events and extinctions.

B) Speciation by Mutation

- 1) Gradualism and micro-mutations
- 2) Punctualism and macro-mutations
 - a) Severe environmental crisis
 - b) Chance macro-mutations.
 - c) Isolated sub-groups
 - d) Rapid rise of new kinds
 - e) Suspension of natural selection

C) The Origin and Development of Adaptations, Integration and Complexity

- 1) Gradualism rejects macro-mutations
- 2) Gradualism accepts the slow accumulation of random micro-mutations
- 3) Requirements of Gradualism
 - a) Neutral mutations in redundant D.N.A.
 - b) Unlimited time
 - c) Multiple adaptations for successive functions.

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d) Mutations of Regulatory D.N.A.

IV. HEREDITY AND GENETICS

A) Laws of Heredity

- 1) Discovered by Mendel
- 2) The role of Genes

B) The Structure and Function of D.N.A.

- 1) Chromosomes, genes and nucleic acids
- 2) Built-in limited variation due to various combinations of genes
- 3) Source of Stability
 - Perfect reproduction is controlled by the Genetic System
 - 1) Structural D.N.A.
 - 2) Regulatory D.N.A.
 - b) Harmful mutations prevented by natural selection

V. VARIATION; NOT SPECIATION

- A) The Fossil Record Disproves Gradualism
 - 1) There are no transitional forms
 - 2) Only the sudden appearance and disappearance of unchanging kinds

B) Limited Variation

- 1) The Genetic System disproves Punctualism
- 2) Macro-mutations prevented by Natural Selection

C) Examples

- 1) The eye
 - a) Complexity
 - b) Improbability
- 2) Whales
 - a) Rapid change?
 - b) Radical change?

VI. THE NATURE OF EVIDENCE

- A) Evolutionary Theory is Primarily Subjective
- B) Little Objective Evidence Exists
- C) Theory of the Origin of Life
 - No objective evidence at all for the presumed conditions nor the presumed processes
 - 2) Infinitely improbable
 - Accepted completely on faith

VII. THE FAILURE OF SC CALLED SCIENTIFIC CREATIONISM

- A. The So Called Scientific Creationists Argument
 - 1. Literal biblical interpretation?
 - 2. Subjective evidence
 - 3. Scientific evidence
 - 4. Creationism based on faith and dogma

B. Problems of So Called Scientific Creationism

- 1. Dogmatic and dishonest
- 2. Unscientific and illogical

VIII. THE MISSING DIMENSION

- A. The Truth About Origins Cannot be Discovered Scientifically
- B. The Truth About Origins Can Only be Known by Revelation
- C. Man is Physical but the Spirit in Man Imparts Mind
- D. Modern Education Accepts Scientific Knowledge as the Only Serious Source of Truth
- E. The Role of Science
 - 1. Investigate the physical universe
- F. The Limits of Science and Reason
 - 1. Is there a purpose?
 - 2. What is the origin of life? Of man?
 - 3. Evolution and "Creationism" are both beyond the limits of human reason.