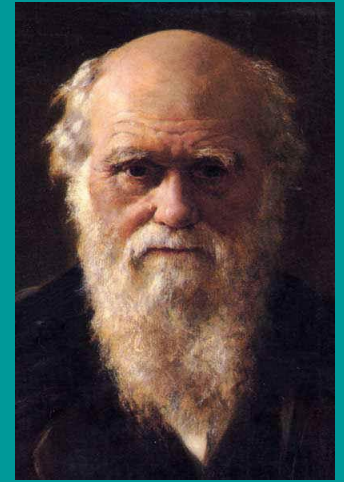
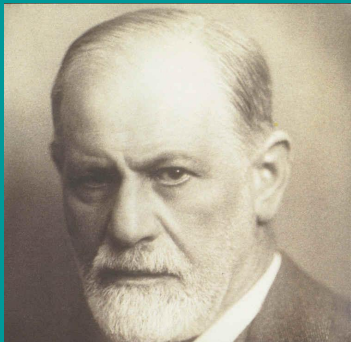




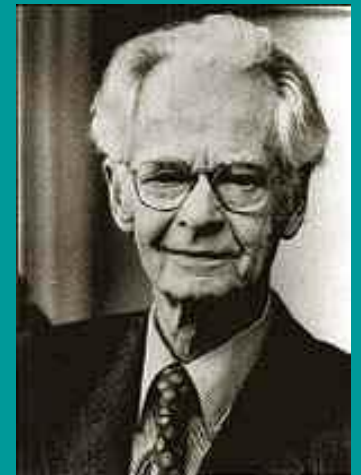
**PHIL 301**  
**History of Philosophy**  
**Spring Quarter 2007**



*PHIL 301*  
*History of Philosophy*  
*Spring Quarter 2007*  
**Dr. Jeff Johnson**



**Week Two**  
**Natural Selection**



# My Cause

- **A conflict for my students**
- **What their culture teaches them**
- **What their professors teach them**
- **What is intellectual freedom?**
- **Lack of understanding about evolution**
- **Need to sympathetically understand those positions you most disagree with**
- **The conflict may be unreal**

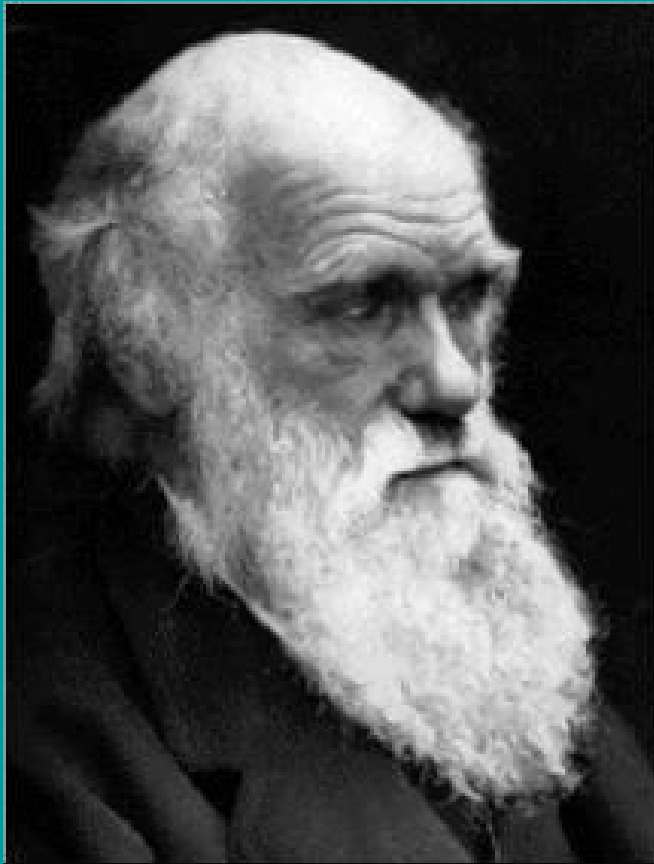
# What Darwin's Theory Isn't

- It isn't a theory about the origin of the universe
- It isn't a theory about the origin of life
- It isn't a theory that says that God does not exist
- It isn't "just a theory"
- The secular world view
- Understanding and misunderstanding science

# God and Evolution

- Are religion and science compatible?
- Are theism and evolution compatible?
- The culture, again
- Fundamentalism
- Evolution in mainstream Christianity
- Science and academic theology
- Science as positive evidence for the existence of God
- Why couldn't evolution be God's chosen mechanism for creating life?

# Charles Darwin



- 1809-82
- Family
- College
- *The Beagle*
- Return to England
- Early research
- The idea
- 1844 paper
- Alfred Wallace's 1858 letter
- *Origin of Species* (1859)

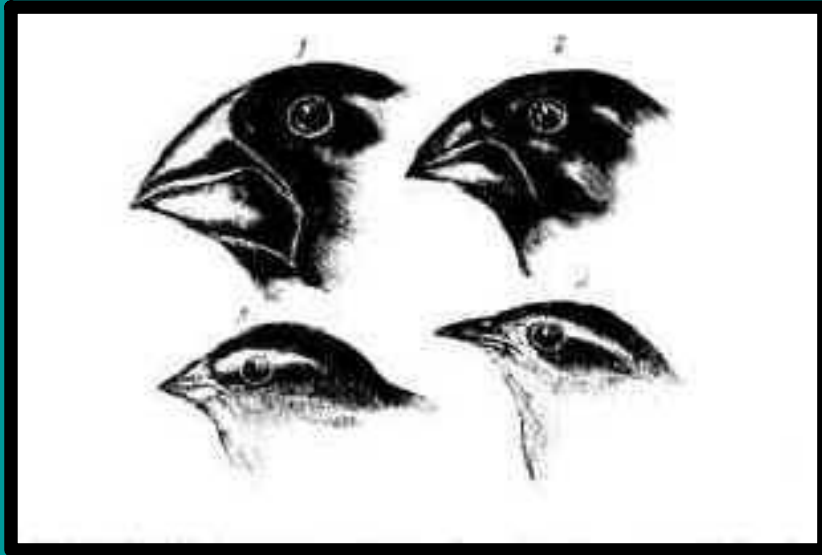
# The *Beagle* Trip

- Darwin the passenger
- Darwin the observer
- Darwin the cataloguer
- Darwin the student
- Darwin the theorist
- Darwin's questions
  - Why so much life?
  - Why so different?
  - Why the surprising similarities?

# Biogeography

- **Darwin invented the science**
- **Relationship between geographical considerations and flora and fauna**
  - **Similar geography – different life**
  - **Similar species – different environments**
  - **Subtle differences**
  - **What explains all this data?**
- **The Galapagos Islands**

# Darwin's Finches



- **Same species?**
- **Closely related species**
- **Markedly different beak structure**
- **Found on different islands**
- **Proximity of the islands**
- **What's going on?**
- **Horizontal evolution**

# Galapagos Tortoises

- San Diego Zoo
- Darwin's fascination
- Differences he noticed
- Account from the Governor
- What's going on here?



# Iguanas



- **PBS documentary**
- **Iguanas on the mainland**
- **Marine iguanas on the Galapagos**
- **What's going on here?**

# Species Question

- **What is a species?**
  - Different breeds of dogs – same species
  - Very similar plants or animals – different species
  - Morphological differences
  - Interbreeding
  - Genetic analysis
- **How do species arise? – *Origin of Species***
- **The accepted pre –Darwin answer in biology**

