archaeology = explanation of past human behavior using physical remains
antiquarianism = exploitation of human past for personal gain

foundations I:
- John Ray
- “fixity of life”
- Carl Linnaeus
- intermediate forms
- Boucher de Perthes
- controversy over the “pre-Adamites”
- Thomsen & Worsaae
- regular stages

foundations II:
- cultural uniformitarianism?

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Enduring Record

Simple Oldowan Chopper from Olduvai Gorge, Tanzania, ca. 2.0 ma

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TIME DEPTH
- From archaeology we learn about human life in the past
- see the sequence of changes and ask HOW and WHY those changes occurred.
- life-ways have changed dramatically

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Charles Knight’s 1914 reconstruction of Neanderthal life at Le Moustier rock shelter
antiquarianism =

- exploitation of physical remains of past human behavior for personal gain

archaeology =

- explanation of past human behavior using physical remains

archaeology arose from antiquarianism

- have to be interested in the past—even if for $$—before you can have a desire to explain it

two historical barriers to development of modern archaeology

1. recognize that humans have an ancient past
2. recognize that natural processes lead to change in natural systems (including life)

View that the Earth (and humanity) has an ancient history is a very recent idea

No need to explain change!
Archbishop James Usher’s (1580-1656) “Young Earth”

Genesis Chapter 11.

11:10 These are the generations of Shem: Shem was an hundred years old [when he] begat Arphaxad, two years after the flood: 11:11 And Shem lived [another] five hundred years. 11:12 And Arphaxad lived thirty five years [when he] begat Salah and [lived another] four hundred and three years…

1038 years total for two people!

Catastrophism & the Great Flood

Charles Lyell’s “Old Earth”

- Principles of Geology: An Attempt to Explain the Former Changes of the Earth's Surface by Reference to Causes now in Operation (1830)
- Uniformitarianism = processes observed in the present also operated in the past
Uniformitarian calculations for the “Old Earth”
- minor process x long time = big result
- big result ÷ minor process = long time

100m thick ÷ .001 m/year = 100,000 years!!

Abiotic face of the Earth may have changed, but certainly life was created and has remained fixed?
ok, not by design…
too perfect to not be by design…

Fixity of Life
- “fit” between organisms and environment evidence of God’s wisdom
- Natural Theology
  - wisdom of God understood by studying the features of his Creation
  - classification of organisms = Divine Order of Creation

John Ray (1628-1705)

Carl Linnaeus (1707-78)
- Systema Natura 1748
- Linnaean taxonomy still used today
- a systematic attempt to catalog all of God’s creatures
- Transitional Forms
  - how is this evidence of God’s wisdom?
  - life is changeable!
animals...OK...

but humans too perfect, must have been created

Jacques Boucher de Perthes (1788-1868)
- stone implements with the bones of extinct ice age animals
- proof that humans were part of the “Old Earth”
- implied that life-ways very different on the “Old Earth”

Jacques Boucher de Perthes’ drawings of the Somme River gravels, France

human life-ways have changed since ancient times

Christian Jurgensen Thomsen (1786 – 1865) & Jens J. A. Worsaae (1821-1885)
- The “Three Age System”
- successive periods characterized by small, regular changes in technology (TRANSITIONAL FORMS)
- CHANGE HAPPENED, BUT HOW????
  Stone → Bronze → Iron

cultural uniformitarianism?
- behavioral and cultural processes observed today also operated in the past

cultural uniformitarian calculations?
- minor cultural process x long time = BIG RESULT

What cultural processes? How and Why does they work?

…”Tune in next class — same Bat-time, same Bat-channel!”…
class website

- http://www.sscnet.ucla.edu/07F/anthro8-1/

- pick up syllabus, reading schedule and assignments here

- use the bulletin board to communicate amongst yourselves

- discussion sections this week, starting today (Monday) at 2pm Fowler A312