

ANTHRO 100 Archaeological Enquiry: Past and Present

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Office Hours MW 1-3
Rm 5402 Soc. Sci.

Major topics and themes

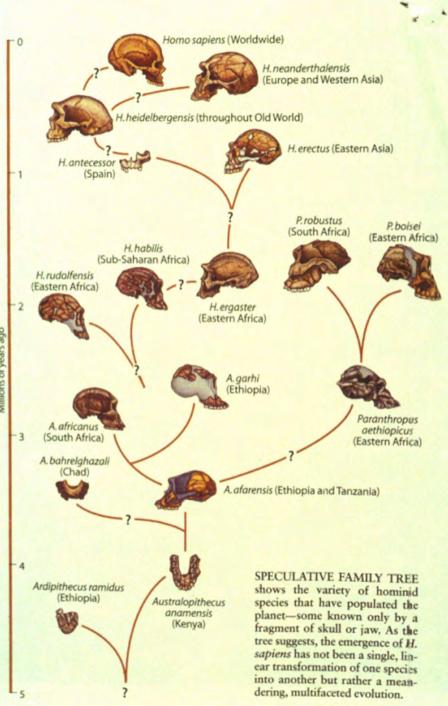


History of Archaeological Methods and Theory

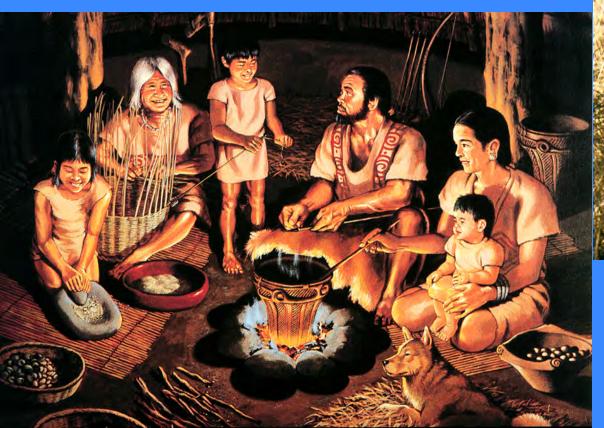
Origin and earliest development of human culture - beginning with early hominins and continuing through the emergence of the first state level societies in both the Old World and the New World

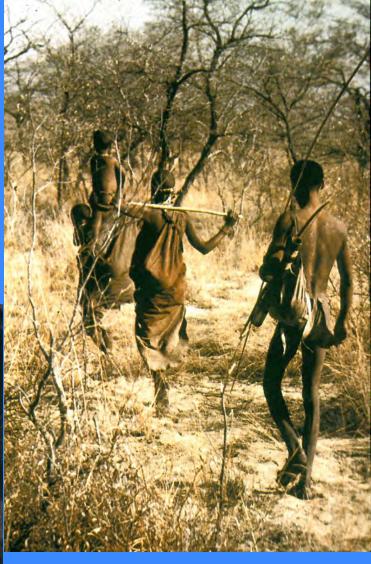


Earliest hominins and models of evolution
What makes us human?
How human communities have spread and diversified across the world

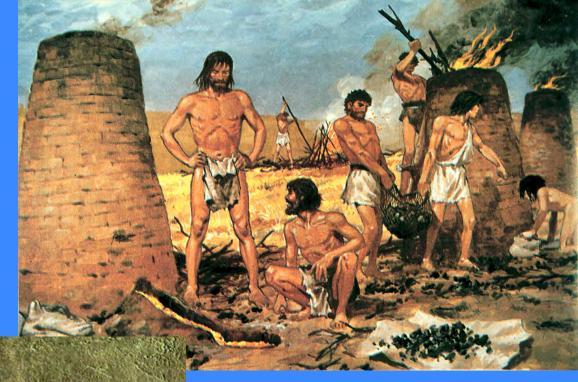


transition from huntinggathering to more permanent settlements and the domestication of animals and plants





emergence of craft specialization





models for stratified socioeconomic and political organization

major regions of the world where regional cultures emerged and were eventually integrated into highly stratified urban society and state level political organization





Egypt, Mesopotamia, Indus Valley, China, Mesoamerica and South America

Other Events of Interest During Fall Semester

Archaeology Brown Bag- Friday Noon 5230 Social Science Bldg

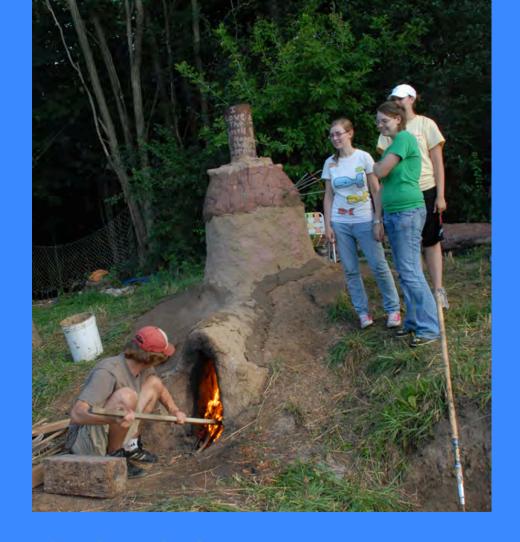
Charles E. Brown Archaeology Society State Historical Society

Anthro Circle events and talks Anthro Colloquia - each month

Archaeological Institute of America talks

Archaeology Certificate - designed for students with broad interests in archaeology

- do not have to be an Anthro Major
- take 21 credits in at least three different departments
- includes a field course and a capstone seminar



Anthro 352Ancient Technology
And Invention
(also a Com B course)

My background and interests

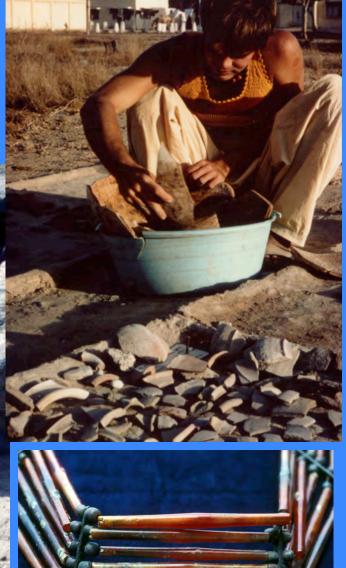
View from my home In Assam, India - Bhubon Hills



Naga tribal dancers

Early Archaeology Experiences
Balakot excavations 1974, Pakistan,
craft technologies and experimental
archaeology - pottery, shell bangles
and stone beads





Lifting large burial jar, 1987





J. M. Kenoyer and R. H. Meadow with Kot Diji pot, 2001

Excavation of Ravi level agate bead workshop with US and Pakistani students 2001

WWW.HARAPPA.COM





Buddhist stupa and rare Wooden Buddha

Mes Aynak, Afghanistan

– 3rd c. BC to historical period,
Ancient copper mining and
smelting area,, workshops
and other remains.

Copper ore

https://www.facebook.com/buddhasofaynak



Bhamala Stupa Excavations, Taxlia, Pakistan – 5th century CE



Birch bark Manuscript – Sangarwala Tibba – Punjab, Pakistan 5th Century CE



How is archaeology relevant today?
Why study archaeology?

To better understand our past

To help build a better future

Because that is what makes us human - different from animals who live to eat reproduce - die, and only leave a genetic legacy

Humans leave a cultural legacy



Stratfordshire Anglo-Saxon gold hoard



Homo naledi, South Africa – 335,000-236,000 YA



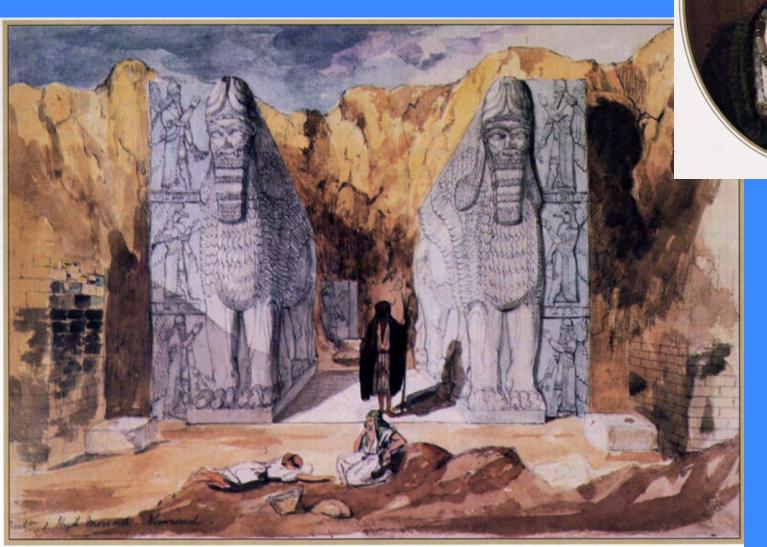
Humans have always been intrigued with their past.

Chinese medical text on the preparation of dragons teeth (fossil animal and hominids).

Royal library at Ebla, with ancient cuneiform texts.

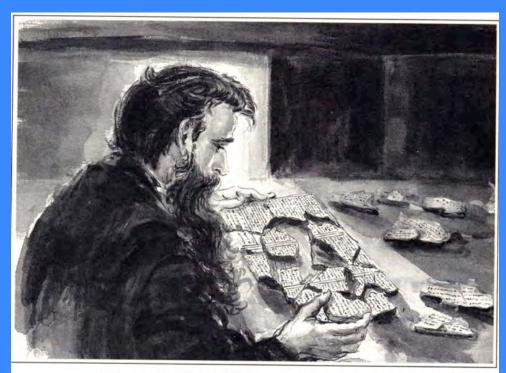


Austen Henry Layard's excavations at Biblical Ninevah, looking for museum treasures and Lady Layard with a necklace of cylinder seals.





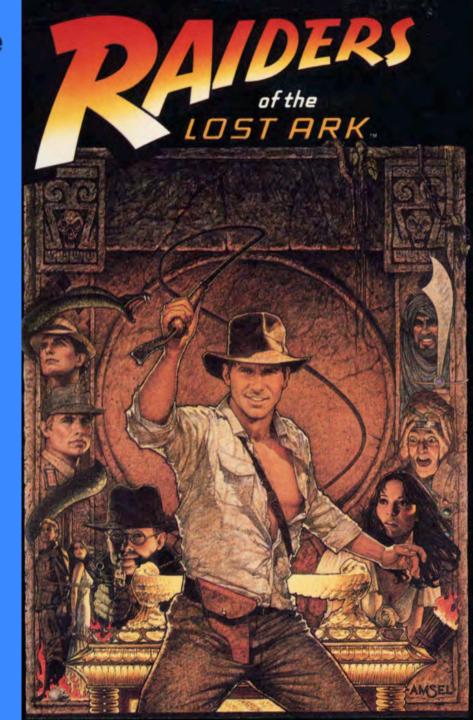
Ahmed Kamal with Egyptian mummy for sale to collectors.



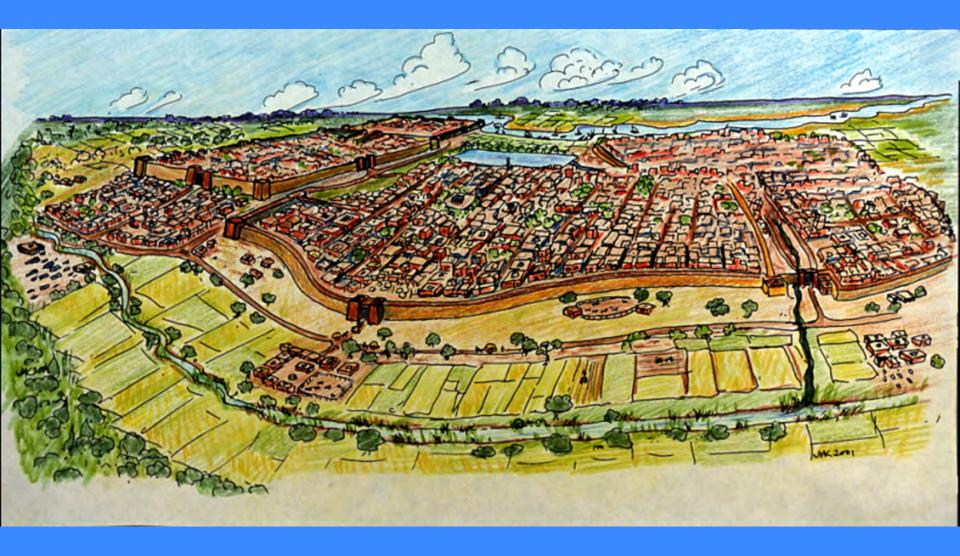
George Smith pieces together fragments of a tablet containing the story of the great flood

George Smith at the British Museum, searching for clues to Noah's Flood. Gertrude Bell, demands more professional and scientific archaeology in Iraq, 1909.





Goals of Archaeological Research



1) describe and reconstruct culture history

Types of Material Evidence Preserved Archaeologically

faunal and botanical remains, raw materials, finished objects, tools and weapons, utensils, ornaments, mortuary remains, architecture, settlement patterns, graphic symbols, ritual objects and symbols

Inform us about

subsistence systems, technology, population growth, centralization and control of social, ritual, economic and political aspects of a society, e.g. urbanism, social stratification, status, access to resources, etc.

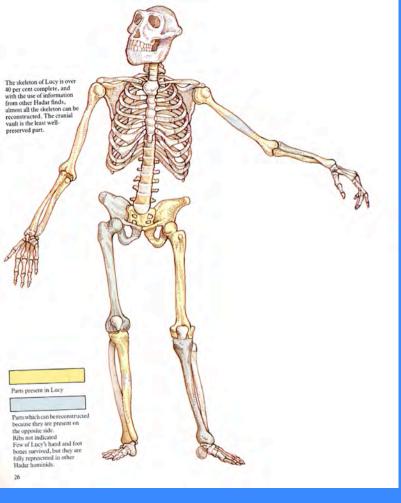


Tel – mounded ruins of Jericho, resulting from repeated occupation

Archaeological Sites- any physical location in which humans have interacted with the environment or lived. The longer humans are in the same locality the more evidence they leave for potential preservation in the archaeological record.



Downtown Chicago is creating a mound today





2) describe and reconstruct past life ways

 Culture traits - all aspects of human adaptation - tools, houses, subsistence activities, social organization, belief systems, etc.



3) identify and explain culture process – how and why people do what they do

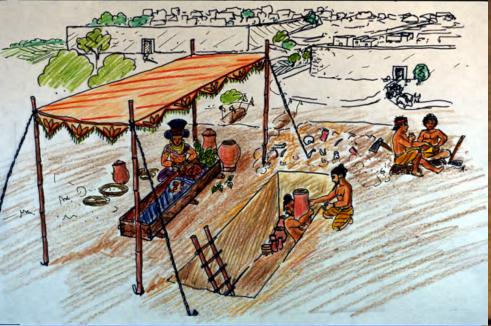
- to better understand the Archaeological Context- the context that artifacts enter after they leave the systemic context or are discarded or buried.

Systemic Context- the context in which artifacts are made and used by humans.



ARTIFACTS - any object or environment with evidence of human intervention

- artifacts generally refer to the range of movable objects
- ecofacts generally refer to seeds, pollen, bone, etc.
- structures generally refer to architectural features
- features generally refer to any discernable change in the soil or natural environment that results from human activity, e.g. a hearth, depression for sleeping, etc.



4) describe and understand the archaeological record

The Archaeological record is a finite (limited) and incomplete record of human activity.



- Diffusion the spread of organisms or ideas over space - more gradual process
- Migration the physical movement of organisms into new regions - generally more rapid process

It is difficult to differentiate the two processes in archaeology - need to have detailed chronological and materials analysis, DNA studies, bone chemistry, etc.



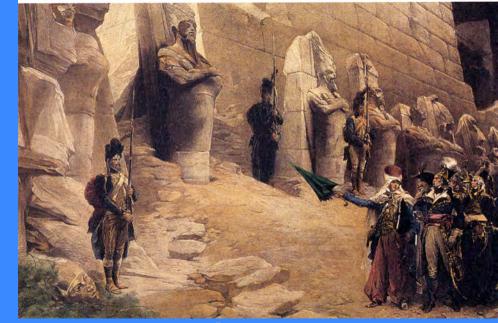
Archaeological Research on Early cities.

Originally the focus was on Temples, Palaces and Tombs.

- the main goal was to identify the names of the

ancient cities and correlate them to historical texts

Ziggurat and palaces at Ur, Iraq



Napoleon's officers visit an Egyptian temple



Early focus was on art objects and written record with specific biblical links

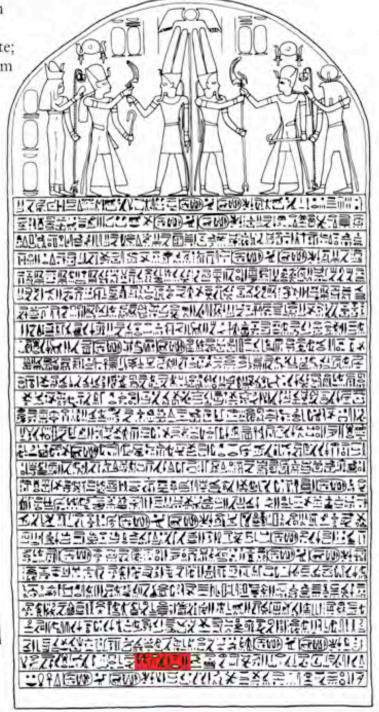
Merneptah stele
(1211-1202 BC
naming the people
of Israel who were
conquered but we
can't be sure it is
the same as the
Hebrew people

Israel stela of Merneptah (1211–1202 BC) from Thebes; 1208 BC. Granite; ht 318cm. Cairo Museum 34025

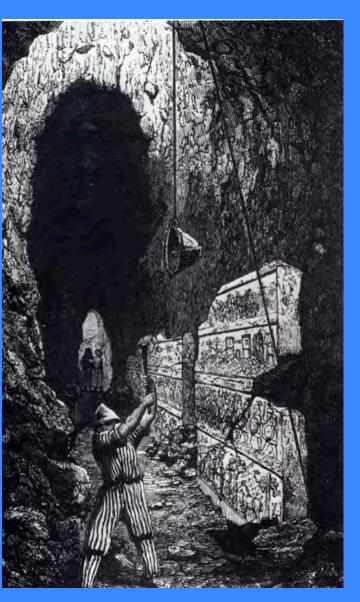
The name Israel: Line 27, reading from right to left



isrir = isril = Isra'el



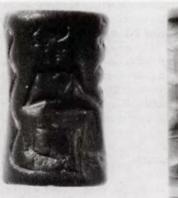
Another site was Ninevah – modern Mosul – recently liberated from ISIL – Daesh.



Layard in 1840s recovered the decorated panels of Assyrian King, Sennacharib's Palace at Kouyunjik, depicting a battle of circa 700 BC. He also attacked Jerusalem but was unsuccessful (2 Kings 19:25)



New inscription dating to 627 BC in a palace being looted by ISIL after they destroyed the tomb of Jonah





Sumerian seal interpreted as the temptation of Eve



Judeo-Christian models of the origin of civilization and of social complexity

Abraham's journey from Ur

Tower of Babel at Babylon

Garden of Eden? - models of diffusion from one point of origin

Since the development of archaeology as an academic discipline originated in Europe it has been heavily influenced by Western Colonial and Eurocentric models

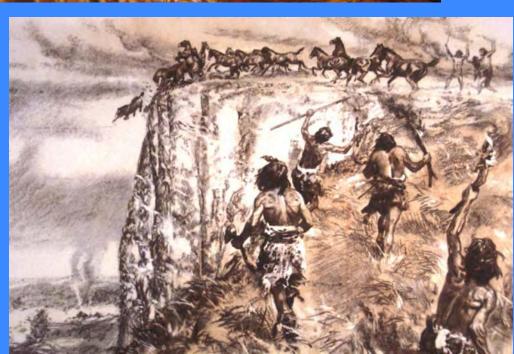
- including the idea that one civilization (i.e. Western Civilization) is better than others
- -European isolationism and misperceptions of <u>limited</u> <u>interaction</u> between different geographical regions in the ancient world led to the idea of <u>isolated early</u> <u>civilizations</u>
- much of which was a reaction to the plague which decimated Europe between 1340-1400, and previous invasions of the Mongols.

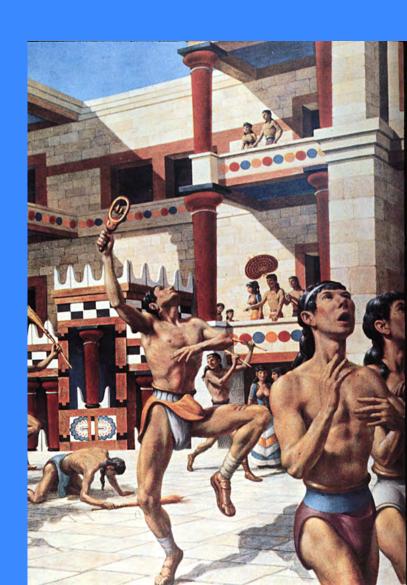
Old World urban civilizations and their relationships





What is Culture?





What is Culture - learned behavior

- our primary means of adaptation to the environment
- use of tools and technology
- social organization
- use of symbols
- versatility of the manipulation of symbols
- non-genetic transfer of meaning of symbols

Culture is shared, it is accumulative and it is constantly changing

Archaeological culture is generally correlated to a human society.

Ways to study the past – Scientific vs Imaginative approaches

Scientific Process of Hypothesis formulation and testing:

- 1) one or more hypotheses are formulated based on inductive research
- 2) then you deduce the logical consequences from the hypothesis
- 3) then you proceed to test the deduced observational predictions with the empirical data from the archaeological record to see if in fact they are true
- 4) if they are true, then the hypothesis is confirmed to some extent



Analogy - a form of inference in which it is reasoned that if two or more things agree with one another in one or more respects, they will probably agree in yet other respects.

Ethnographic Analogy uses such similarities to interpret the function or meaning of past artifacts on the basis of modern function or meaning.

There is no such thing as a "perfect analogy" since if all properties were the same then the objects would be identical



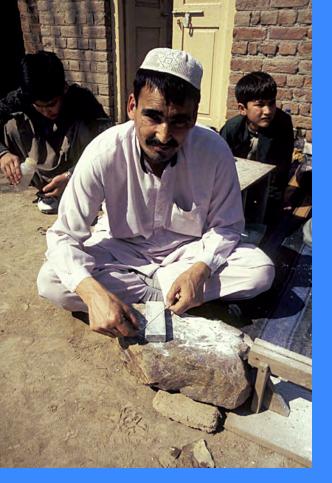


Experimental Archaeology - the replication of tools or adaptive processes to better understand the archaeological record and site formation processes





Hard hammer percussion and meat butchery using an obsidian flake.



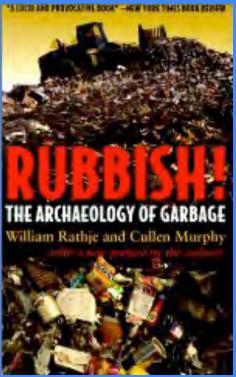
Ethnoarchaeology – studying modern cultures and patterns of archaeological accumulation to understand how to better interpret the past and archaeological sites



Living archaeology - the study of living cultures,

including our own urban and space garbage

Mir satellite



IMPORTANT GEOLOGICAL TERMS and DATES
PERIOD EPOCH Approximate Dates

Quaternary

Holocene Present to 10,000/12,000 BP

Pleistocene 10,000 to about 2 MYA

- Upper/Late 10,000 to 100,000 (127,000) BP

- Middle 100,000 to about 1 (.7) MYA

anatomically modern Homo sapiens sapiens fossils .19 MYA

archaic Homo sapiens fossils .3 to .16 MYA

- Lower/Early 1 MYA to about 2 (1.9, 1.7)

earliest Homo fossils 2 - 2.4 MYA

Pliocene 2 MYA to about 5 (5.26) MYA

earliest Hominin fossils 5.5 MYA

Tertiary Miocene 5 MYA to about 25 (23) MYA

Oligocene 25 MYA to about 36 MYA etc.

ARCHAEOLOGICAL PERIODS
Lower Palaeolithic (Hunting-Gathering)
+ 2 MYA to 100 or 70,000 BP
Middle Palaeolithic (Hunting-Gathering)
100 or 70,000 to about 30,000 BP
Upper Palaeolithic (Hunting-Gathering)
30,000 to about 10,000 BP

Mesolithic (Transitional period) 10,000 to 9000 B.P.

Neolithic (Food Production) 9000 to 8000 B.P. and later