

## *Chapter 12*

# *Contextualizing Preanalyses of the Ohio Hopewell Mortuary Data, I: Age, Sex, Burial-Deposit, and Intraburial Artifact Count Distributions*

**CHRISTOPHER CARR, BEAU J. GOLDSTEIN, AND D. TROY CASE**

Reconstructing the social organization and broader culture and lifeways of a past people through the study of their mortuary remains is by nature an exercise in contextual analysis. The distributions of artifact classes, tomb forms, mortuary treatments, and skeletal traits of various kinds among different sets of individuals can give insight into socially defined categories of persons, their roles, modes of recruitment into social categories, divisions of labor, the degree of social hierarchy, and so on.

This chapter and the next present some very basic contextual analyses that a researcher would need to make in order to reconstruct any of a wide range of aspects of Ohio Hopewell culture and lifeways. This chapter and its associated tables summarize the distributions of various mortuary traits along four most essential dimensions of mortuary variability of the Ohio Hopewell individuals and ceremonial deposits recorded in the HOPEBIOARCH data base. The mortuary traits that are explored include artifact classes, tomb attributes, and various kinds of body treatments. The four essential dimensions

are: (1) the age class(es) of the individuals having a given mortuary trait; (2) the sex(es) of individuals having a given mortuary trait; (3) whether a given artifact class tends to occur in burials or in ceremonial deposits lacking human remains; and (4) the number of artifacts of a given class that tend to be found per burial.

The four dimensions of mortuary variability documented here have been found useful in previous studies of Ohio Hopewellian and other societies for reconstructing many kinds of social and cultural characteristics. The age and sex distributions of mortuary traits that involve much expenditure of energy have long been recognized to bear on the issue of whether a society was organized by principles of rank (Binford 1971; Brown 1981; Braun 1977, 1979; Buikstra 1976; Carr 1995; Peebles 1971; Peebles 1974; Peebles and Kus 1977; Tainter 1975, 1978). Consideration of the age and sex distributions of a broader suite of mortuary traits allows additional applications. The age and sex distributions of mortuary traits that indicate vertical social

differentiation – including those implying much energy expenditure, those that are also rare and imply high cultural value, and those set off by spatial location – can be used with other criteria to distinguish the separate social dimensions of achieved prestige, ranking, achieved leadership, leadership ascribed by rank or class, and wealth (Carr 2005d:242–243, Table 6.1). Age and sex distributions of yet other mortuary traits have also been used to archaeologically identify communities (Carr 2005a), ethnic groups (Beck 1995), sodalities (Chapter 4; Carr 2005a), kinship structure (Field et al. 2005), shaman-like practitioners in distinction from classic shaman (Carr and Case 2005b), third genders (Field et al. 2005), division of utilitarian labor (Hawkey 1988; Hawkey and Merbs 1995; Rodrigues 2005; Rothschild 1979), differential work and disease load (Cook 1981; Larsen 1997:81–82, 91–92, 99, 103, 106; Rodrigues 2005), differential access to meat and nutritious foods or other dietary variation (Ambrose et al. 2003; Barrett and Richards 2004; Larsen 1997:278; White 2005; White et al. 2001), the cultural value placed on children (Senior 1994) and the elderly (Buikstra 1981:129–130; Turff and Carr 2005), the timing of transition to adulthood and other age-related rites of passage (Braun 1979; Carr 2005d; Senior 1994; Turff and Carr 2005), and patterns of warfare and violence (Larsen 1997:118–119, 122–125, 128–130, 139, 141, 144; Milner 1995; Owsley et al. 1977; Seaman 1988).

Beyond age and sex, a third dimension documented here distinguishes artifact classes by whether they are found more often in graves or in ceremonial deposits without human remains. This dimension is not crossculturally important to sociocultural analysis like the age and sex distributions of mortuary traits, but is critical to the study of Ohio Hopewell societies. In the Ohio Hopewell case, people decommissioned certain classes of artifacts and materials in large quantities in ceremonial deposits. For a full inventory of such items and deposits, see Carr et al. (2005:486–488, Table 13.2).

The distinction between the two pathways of deposition of artifact classes in Ohio

Hopewell ceremonial centers gives insight into an array of social and cultural matters largely different from those indicated by age and sex associations of mortuary traits. First, an artifact class that was decommissioned in quantity in ceremonial deposits predominated by that one kind of artifact can potentially indicate the collective rites of a sodality or a clan-based ceremonial society, or the collective professional rites of a group of role-specialized shaman-like practitioners of a kind (Chapter 4, Sodalities and Ceremonial Societies; Chapter 4, Leadership; Carr, et al. 2005:496–499, 529–530). Additional archaeological criteria are necessary to secure such identifications (Chapter 4, Sodalities and Ceremonial Societies). Analyses to date suggest that copper breastplates, metallic earspools, smoking pipes, and bear canine pendants and necklaces each have the strong, multiple-characteristic signatures of sodalities or clan-based ceremonial societies, including their occurrence in large, homogeneous ceremonial deposits. Mica mirrors, galena cubes, and the teeth of fox, elk, raccoon, and canine, each placed ceremonially in large homogeneous deposits, may also represent sodalities or clan-based ceremonial societies (Chapter 4, Sodalities and Ceremonial Societies). Large, homogeneous deposits of shaman-like paraphernalia of a kind may indicate the professional societies of shaman-like specialists (Chapter 4, Leadership).

The distinction between artifact classes typically placed in burials and those commonly decommissioned in ceremonial deposits that lack human remains can be insightful in a second way: it can help to distinguish individually owned and used items from collectively owned and used items. An artifact of a class that always or almost always was placed in graves, and in a number that would have been used by a single individual (one, or one functional set such as a pair of earspools), can be assumed with good likelihood to have been the property of an individual – either the deceased or someone who placed the item with the deceased at burial. On the other hand, an artifact of a class that seldom was buried with people and instead was placed

in ceremonial deposits – either homogeneous or heterogeneous – is a candidate for communal property. The many geometric copper cutouts placed in the Copper Deposit underlying Mound 25 at the Hopewell site (Greber and Ruhl 1989:90–123; Moorehead 1922:109–110; Shetrone 1926a:74–75) are good examples of possible communal property. Items of these designs were never placed in burials, they were placed together in a single deposit suggesting their coordinated and possibly corporate use ceremonially, and most of them are unique in their forms in the Hopewell world rather than common designs that might mark the established social roles of individuals.

A third way in which the distinction between artifact classes placed in ceremonial deposits and those put in graves can be important is in shedding light on notions of power and personhood that vary among artifact classes. Historically, Woodland Native Americans commonly attributed personhood to ceremonial items and other things that we consider “inanimate” (e.g., Hallowell 1960). Ceremonial paraphernalia were thought to have the potential for gaining power over time through their use, i.e., having relationships with other persons, like humans could gain power through their social relations. Long-lived items that had gained much power, like all beings of power, could be equally as dangerous as helpful, and sometimes were taken out of service through destruction or burial in the earth as a precautionary or necessary measure. Ohio Hopewell artifacts of a kind that typically were placed in ceremonial deposits away from the bodies and souls of the deceased may have been considered sentient and capable of social relations, able to accumulate power, and potentially dangerous. Those artifact classes placed with people in their graves may not have been attributed personhood, or may have been thought to embody power that was manageable. For example, worked quartz and obsidian items such as bifaces, cones, and disks were usually decommissioned in ceremonial deposits and seldom placed with the deceased.<sup>1</sup> Even scraps of quartz and obsidian from knapping bifaces were at times carefully collected and

deposited away from humans (e.g., Cowan 2005; Genheimer 2005); and in one case, a huge assemblage of obsidian scrap from biface manufacture was buried surrounded by an insulating, symbolic water barrier of stones (Shetrone 1926a:40–43, figure 10). A great concern for sheltering both the deceased within the burial mound and the living from the power of these artifacts is implied. In contrast, other gem and translucent bifaces were more commonly put in graves with the deceased and only in one instance segregated in a ceremonial deposit that lacked human remains. This suggests that any power that they were thought to have accumulated over their use-life was considered manageable. At a broader scale, within Ohio and across the Eastern Woodlands at large, metal-jacketed panpipes normally were buried with the deceased, usually one per person, suggesting that they were personal items with power that could be controlled throughout the lifetime of the owner and thereafter (Turff and Carr 2005:679–680).

Knowing whether an artifact of a given kind was normally owned by an individual or collectively, and whether it was thought to normally have manageable power or not – points two and three above – are important as foundations for the analysis of social roles, social positions, and social organization. To determine the social roles that an individual played, and to then assess aspects of role organization such as the centralization or segregation of roles among individuals, the strength of institutionalizing of roles, which roles were consistently combined so as to define a social position, and such, it is necessary that the artifacts used by a person in his or her social roles in life be buried with him or her – at least in a good proportion of cases, so that social patterns can be recognized archaeologically. This socially faithful and insightful distribution of grave goods can potentially occur when most kinds of artifacts are owned by individuals, and when there is no cultural deterrence from burying the deceased with most kinds of artifacts. Classes of artifacts that are owned collectively, or that are thought too powerful to bury safely with the deceased, do not afford the opportunity to

accurately identify the roles of individuals and the organization of roles.

The fourth dimension of mortuary variability that this chapter documents – the number of artifacts of a given class that tend to be found per burial – is also essential to determining whether or not the artifacts buried with a person tend to be those that she or he owned and used during life and that identify the person's social roles during life. When artifacts of a class typically are buried one per person when present in a grave, or one functional set per person (e.g., one pair of earspools, one pair of hair skewers, four bear canines), then it is likely that artifacts of that class were owned by individuals rather than corporately. An occurrence of such an artifact or set of artifacts within the grave of a person probably indicates that he or she owned it, and had the role in life in which the artifact was used. Uncommon occurrences of multiple such artifacts or sets of artifacts within a grave likely reflect the ownership of one of the artifacts or sets of artifacts by the deceased, and the gifting of the additional, redundant artifacts or sets by mourners who had in common with the deceased the role marked by the artifact (Chapter 4, Ritual Gatherings and Alliances). In contrast, when many deceased persons in a cemetery are buried with multiple artifacts or functional sets of artifacts of a kind, then it becomes difficult to say whether the deceased persons with such artifacts had the role marked by them or whether the distribution represents simply a cultural norm for mourners to give that kind of artifact to the deceased, regardless of the deceased person's social roles in life.

Documenting mortuary variability along each of the four dimensions just discussed is vital to developing a solid contextual foundation for interpreting mortuary patterning in culture-specific terms. Consequently, in this chapter, we present these four kinds of contextualizing preanalyses of the HOPEBIOARCH data set, in order to help researchers move their studies forward onto more central questions about Ohio Hopewell social organization and lifeways.

## DOCUMENTATION METHODS

A total of 115 variables are described here for their distributions along the four dimensions discussed above, drawing upon information from 854 burials and 76 ceremonial deposits found in 33 mound and earthen enclosure ceremonial centers. The assessments were undertaken on an abbreviated, previous version of the HOPEBIOARCH data base several years ago as a part of the analyses made for *Gathering Hopewell* (Carr and Case 2005c). The selection of sites in the abbreviated data base is weighted heavily toward ceremonial centers in the Scioto drainage and secondarily toward those in the Muskingum drainage, Little Miami drainage, and northeastern Ohio. Many Hopewell ceremonial centers in southwestern Ohio, now a part of the HOPEBIOARCH data base, are not included in the study. Variables that describe the positions of grave goods relative to the body are also not considered. Some additional ways in which the sample of burials, deposits, and ceremonial centers and the range of variables analyzed here differ from the wider data in the HOPEBIOARCH data base presented in this book are noted below.<sup>2</sup>

All statistics and qualitative summaries reported here are given by individual site, rather than globally across all sites. This site-specific approach to pattern definition is necessary because different Hopewellian peoples in different regions of Ohio, and peoples of the same region at different times, varied in their social and ritual organization. Global mortuary patterns, not assessed here, would have the strong potential to be artificial mixes or averages of differing regional or temporal-specific patterns, and to not really represent any one time or place. Site specific patterns, or patterns across a limited number of sites close to each other in time and space, are more likely to express cultural and behavioral reality.

Specifically, kinship structure appears to have varied between northeastern Ohio (strongly patrilineal), south-central Ohio (moderately patrilineal), and southwestern Ohio (matrilineal). Patterns of recruitment of genders into social

roles varied among these three regions, apparently in relation to these differences in kinship structure (Chapter 4, Gender, Gender Relations, and Kinship Structure). Sex distributions of mortuary traits vary among sites accordingly. Also, over time in the Scioto-Paint Creek area, sodalities of various kinds arose and waned, leading to different patterns among sites and among artifact classes in the placing of artifacts in burials versus ceremonial deposits lacking human remains. Changes in sodality popularity over time also affected the number of artifacts of given classes that tend to be found per burial (Chapter 4, Sodalities and Ceremonial Societies). Both of these changes in mortuary trait patterning relate in part to shifting notions of whether artifacts were owned individually or corporately, for some artifact classes (Chapter 4, Earspools and Breastplates as Sodality Markers). In addition, shifts over time in the strategies by which alliances were created among local symbolic communities – from dyadic relationships among individuals to relationships among whole communities through their leaders to spiritual alliances among whole communities – altered whether given artifact classes were placed in burials or in other ceremonial deposits, and the number of artifacts of given classes that tend to be found per burial (Chapter 4, Ritual Gatherings and Alliances). Finally, patterns of mortuary trait distribution vary by site according to whether a cemetery was small and used by only a few residential communities or large and used by many residential units within a local symbolic community, and whether the site functioned as a burial place for mainly leaders and other socially important people or for a broader spectrum of persons from a local symbolic community (Chapter 3, Local Symbolic Communities, Sustainable Communities; Chapter 4, Local Symbolic Community Representation at Ceremonial Centers). For all of these reasons, exploring site-specific mortuary patterning and comparing differing patterns among sites is more appropriate than searching for homogenized, global patterns.

Information on the distributions of mortuary traits along the four dimensions of mortuary variability is provided here in two

ways. Detailed information reported as the exact numerical distributions of mortuary traits along the dimensions are given in Appendices 12.1–12.4. Qualitative, summary information derived from these tables, having the aim of allowing a researcher to quickly search for patterns relevant to his or her research goal, is reported in a concise way in the text below and in tabular form in the Appendices. The qualitative summary in the text also allows quick comparisons among sites for similarities and differences in their distributions of mortuary traits. Thus, for example, in Appendix 12.3, we discover that at the Mound City earthwork, of the 9 total burials and ceremonial deposits in which mica mirrors were found, 89 % ( $n = 8$ ) of the proveniences were burials and 11 % ( $n = 1$ ) were ceremonial deposits. In the text, this information has been summarized and can be easily compared to patterning at other sites: we find that mica sheets were excavated from largely or exclusively burial proveniences at the Mound City, Esch, Hopeton, Hopewell, Rockhold, Seip, and Turner sites.

Three of the four dimensions of mortuary variability are binary or are summarized in a binary manner. Provenience type is either “burial” or “ceremonial deposit”. Sex is either “male” or “female”. Age is summarized as either “adult” or “child”, with the break between these two age classes placed at around 12 years of age. For each of these three dimensions, the relative proportion of cases falling into one of the binary states or the other is summarized along an ordinal scale with five categories: “exclusively state A”, “largely state A”, “equally states A and B”, “largely state B”, and “exclusively state B. These categories are defined as follows:

- exclusively state A: 100 % of the observations at a particular site exhibit state A
- largely state A: greater than 55 % but less than 100 % of the observations exhibit state A
- equally states A and B: 45 %–55 % of the observations exhibit state A.



- largely state B: greater than zero, but less than 45 % of the observations exhibit state A
- exclusively state B: 0 % of the observed proveniences exhibit state A.

Thus, for example, mica mirrors, having been found in burials 89 % of the time and in ceremonial deposits 11 % of the time at Mound City, are characterized for their distribution along the burial-ceremonial deposit dimension as “largely burial” for that site. Also, mica mirrors, having been found 100 % of the time with adults and never with children at Seip, are characterized for their distribution along the age dimension as “exclusively adult” there.

When a given site has less than five observations of a given mortuary trait on a given dimension, the categories along that dimension are defined as follows. For a site with only one observation of a mortuary trait along a particular dimension, the only possible characterizations are “exclusively state A” or “exclusively state B”. For a site with only two observations of a mortuary trait, the only possible characterizations are “exclusively state A”, “equal” or “exclusively state B”. For a site with three observations of a mortuary trait, a 1:2 or 2:1 ratio of the states is considered “equal”. All five characterizations are possible for a site with four observations of a mortuary trait. For a site with five observations, a 2:3 or 3:2 ratio of the states is considered “equal”.

For the age dimension, information about age categories more specific than “child” or “adult” is reported for a mortuary variable when age-specific patterns occur. For example, if the age distribution for a particular artifact class was not just exclusively adult, but also exclusively older adult, this more detailed information is provided in Appendix 12.1 and in the textual summary. The more specific age categories used in these cases are: (1) young adult, 13–20 years, (2) middle adult, 21–35 years, and (3) older adult, 36+ years. This extra information is recorded only when a mortuary variable has information from two or more proveniences.

The fourth dimension of mortuary variability, which measures the number of artifacts of a given class that tend to be found per burial and which concerns whether artifacts in a grave were owned by the deceased or gifted to the deceased, is summarized in a different fashion. For a given artifact class at a given site, seven categories are defined:

- exclusively one item of the class per individual
- commonly one item of the class per individual
- exclusively X number of items of the class per individual
- commonly X number of items of the class per individual
- exclusively X to Y range of items of the class per individual
- commonly X to Y range of items of the class per individual
- in addition and secondarily, commonly or exclusively Z number of items of the class per individual

Because the patterning of counts of an artifact class among burials of a site can be more complex and diverse than patterning along the binary dimensions of age, sex, and burial or ceremonial deposit, some of the count patterns categorized here have a subjective component to them.

Detailed and summary information on the distributions of a mortuary trait are provided in appendices and the text for the trait as a whole, or for each individual alternative state that the trait can take in the case of multi-state traits. For example, the trait, conch shell, is described as a whole for each of its age, sex, provenience type, and artifact count distributions. In contrast, for the trait, mica sheet, which takes the two states of thin mica sheet and mica book, the two states are each described separately for their age, sex, provenience type, and count distributions.

## QUALITATIVE SUMMARIES OF PATTERNS OF DISTRIBUTIONS OF MORTUARY TRAITS

### Treatment

#### *Sex Distribution*

Liberty: Exclusively female (low N) for partial cremation and cremation.  
Equal (low N) for inhumation

### Floor Prep

#### *Sex Distribution*

Hopewell, Rutledge, Seip: Exclusively female (low N) for stone (ST)  
Hopewell: Equal (low N) for gravel (GR)  
Seip: Exclusively male (low N) for gravel (GR)  
Ater, Seip: Equal (low N) for charcoal (CH)  
Martin: Exclusively female (low N) for clay (CL)  
North Benton: Exclusively male (low N) for sand (SD)  
Esch, Martin, Turner: Equal (low N) for hole in floor (HL)  
Hopewell, Liberty: Exclusively male (low N) for hole in floor (HL)  
Esch, Turner: Exclusively male (low N) for no preparation (NP)  
Rutledge: Equal (low N) for no preparation (NP)  
Turner: Exclusively male (low N) for sand and stone (B)  
Martin: Exclusively male (low N) for hole in floor with stone (D)

#### *Age Distribution*

Boyle's Farm, Hazlett,  
Hopeton, Kohl, Marietta,  
Rockhold, Rutledge,  
Shilder, Turner-Marriot,  
West, Wright: Exclusively adult (low N) for floor prep  
Ater, Esch, Hopewell,  
McKenzie, N Benton, Pence,  
Seip, Snake Den,  
Liberty, Martin, Turner: Largely adult for floor prep  
Finney: Mixed (low N) for floor prep  
Levina Russel: Exclusively child (low N) for floor prep  
Liberty: Largely adult for floor prep  
Hopewell, Rutledge, Seip,  
Turner, Wright: Exclusively adult for stone (ST)  
Hopewell: Exclusively adult for gravel (GR)  
Seip, Turner: Mixed (low N) for gravel (GR)  
Boyle's Farm, Hopewell,  
Seip, West: Exclusively adult for charcoal (CH)  
Ater: Largely adult for charcoal (CH)  
Martin, Seip, Turner,  
West: Exclusively adult (low N) for clay (CL)  
Seip: Exclusively adult (low N) for mica (MI)  
N Benton, Pence: Exclusively adult (low N) for sand (SD)  
Hopewell: Exclusively adult (low N) for crematory basin (CB)  
Esch, Finney, Pence,  
Seip: Mixed (low N) for hole (HL)  
Hopewell: Exclusively old adult (low N) for hole (HL)  
Liberty, Turner, Martin: Largely adult for hole (HL)  
Turner-Marriot: Exclusively adult for hold (HL)  
Hopewell: Exclusively adult for gravel and charcoal (GC)  
Esch: Largely adult (low N) for no preparation (NP)  
Hazlett, Marietta, McKenzie,  
Rutledge, Turner, Seip: Exclusively adult (low N) for no preparation (NP)  
N Benton: Mixed (low N) for no preparation (NP)  
Turner: Exclusively adult (low N) for sand and stone (B)

Turner:	Exclusively adult (low N) for gravel and stone (C)
Martin:	Exclusively adult (low N) for hole in floor with stone (D)

**Wall Prep***Sex Distribution*

N. Benton, Seip, Turner, Turner-Marriot:	Largely or exclusively male for stone (ST)
Hopewell:	Exclusively female (low N) for stone (ST)
Hopewell:	Largely male (low N) for no logs (NL)
Hopewell, Seip:	Largely male or exclusively male for logs (LG, 2L)
Seip:	Exclusively female (low N) for three logs (3L)
Ater:	Equal (low N) for logs (LG)
Finney, Turner:	Exclusively male (low N) for some stone (SS)
Hopewell, Rutledge:	Equal (low N) for some stone (SS)
Turner:	Exclusively male (low N) for in-wall (IW)
Esch:	Exclusively male (low N) for no prep (NP)
Hopewell:	Equal (low N) for no prep (NP)
Hopewell, Seip:	Equal (low N) for charnel house (MLV)
Seip:	Exclusively female (low N) for B

*Age Determination*

Ater, Esch, Finney, Hopewell, Liberty, Martin, McKenzie, N Benton, Pence, Seip, Snake Den, Turner:	Largely adult for wall prep
Boyle's Farm, Hazlett, Hopeton, Kohl, Marietta, Rockhold, Rutledge, Shilder, Turner-Marriot	
West, Wright:	Exclusively adult (low N) for wall prep
Levina Russel:	Exclusively child (low N) for wall prep
Hopewell, Marietta, Turner- Marriot, N Benton:	Exclusively adult (low N) for stone (ST)
Seip, Turner:	Largely adult for stone (ST)
Boyle's Farm, Turner:	Exclusively adult (low N) for clay (CL)
Ater, Hopewell:	Exclusively adult for logs and stone (LS)
Hopewell:	Exclusively adult for no logs (NL); adults largely older
Ater, Hopewell, Seip:	Largely adult for logs (LG)
Liberty, Pence:	Exclusively child (low N) for logs (LG)
N Benton, West:	Exclusively adult (low N) for logs (LG)
Ater, Hopewell:	Exclusively adult (low N) for two logs (2L)
Seip:	Mixed for two logs (2L)
Hopewell:	Exclusively adult (low N) for three logs (3L)
Seip:	Largely adult for three logs (3L)
Ater, Finney, Hopewell, Kohl, Rutledge, Seip:	Exclusively adult (low N) for some stone (SS)
Turner:	Largely adult (low N) for some stone (SS)
Hopewell, Kohl:	Exclusively adult (low N) for stone ring (SR)
Turner:	Exclusively adult (low N) for in-wall (IW)
Esch:	Largely adult for no preparation (NP)
Hopewell, Turner, N Benton:	Mixed (low N) for no preparation (NP)
McKenzie, Seip, West:	Exclusively adult (low N) for no preparation (NP)
Hopewell:	Largely adult (low N) for log vault (MLV)
Seip:	Mixed for log vault (MLV)
Hazlett:	Exclusively adult (low N) for flint enclosure (FL)
Seip:	Exclusively adult (low N) for three logs and stone (A)
Kohl, Seip:	Exclusively adult (low N) for logs and stone (B)
Seip:	Exclusively adult (low N) for two logs and stone (C)



**Cover Prep**

*Sex Distribution*

Martin, Rutledge, Turner:	Largely or exclusively male (low N) for stone (ST)
Rutledge:	Equal (low N) for clay (CL)
Turner-Marriot:	Exclusively female (low N) for gravel (GR)
North Benton:	Exclusively male (low N) for sand (SD)
Seip:	Equal (low N) for fabric (FB)
Seip:	Equal for excavated cave (EC)
Seip:	Equal (low N) for primary mound (PM)
Hopewell:	Exclusively female (low N) for primary mound 1 (PM1)
Hopewell:	Exclusively male (low N) for primary mounds 4 and 6 (PM4, PM6)
Hopewell:	Equal for primary mound 5 (PM5)
Ater:	Exclusively male (low N) for gravel and clay (GC)
Seip:	Exclusively male (low N) for stone, fabric, and primary mound (B)
Hopewell:	Equal (low N) for excavated cave and primary mound 5 (C)
Hopewell:	Largely male for excavated cave and primary mound 4 (E)
Seip:	Exclusively male (low N) for stone and primary mound (F)
Turner:	Exclusively male (low N) for stone and sand (I)

*Age Distribution*

Ater, Esch, Hopewell, Martin, McKenzie, N Benton, Pence, Seip, Snake Den, Turner, Liberty:	Largely adult for cover prep
Bourneville, Boyle's Farm, Hazlett, Hopeton, Marietta, Rockhold, Rutledge, Shilder, Turner-Marriot, West, Wright:	Exclusively adult for cover prep
Kohl:	Exclusively middle adult (low N) for cover prep
Finney:	Mixed (low N) for cover prep
Levina Russel:	Exclusively child (low N) for cover prep
Bourneville, Esch, Hopewell, Marietta, Martin, Seip:	Exclusively adult for stone (ST)
Finney:	Exclusively child (low N) for stone (ST)
Turner:	Largely adult (low N) for stone (ST)
Martin, N Benton, Rutledge Shilder, Turner, West:	Exclusively adult (low N) for clay (CL)
Seip:	Mixed (low N) for clay (CL)
Ater, Turner:	Largely adult for gravel (GR)
McKenzie, N Benton:	Exclusively adult (low N) for sand (SD)
Seip:	Largely adult for fabric (FB)
Hopewell:	Exclusively adult (low N) for mica (MI)
Hopewell:	Exclusively adult (low N) for excavated cave (EC)
Seip:	Largely adult for excavated cave (EC)
Martin, Turner:	Exclusively adult (low N) for some stone (SS)
Seip:	Mixed (low N) for primary mound (PM)
Hopewell:	Exclusively adult (low N) for PM1, PM2, PM4, PM5, and PM6
Esch:	Mixed (low N) for no preparation (NP)
Seip, Turner:	Exclusively adult (low N) for no preparation (NP)
Ater, Hopewell:	Exclusively adult (low N) for gravel and clay (GC)
Seip:	Mixed (low N) for stone, fabric, and primary mound (B)
Hopewell:	Exclusively middle adult (low N) for excavated cave and primary mound 5 (C)
Hopewell:	Exclusively adult (low N) for excavated cave and primary mound 6 (D)
Hopewell:	Largely older adult for excavated cave and primary mound 4 (E)

Seip:	Exclusively adult (low N) for stone and primary mound (F)
Turner:	Mixed (low N) for stone and gravel (H)
Ater:	Exclusively adult (low N) for sand and gravel (J)
Ater:	Exclusively adult (low N) for primary mound and gravel (K)

**Body Wrap***Sex Distribution*

Ater:	Equal (low N) for bark (BK)
Hopewell:	Exclusively male (low N) for bark (BK)
Hopewell:	Equal (low N) for bark below body (BB)
North Benton:	Exclusively male (low N) for bark cover on body (BC)
Rutledge:	Equal (low N) for bark cover on body (BC)
Hopewell, Esch:	Largely or exclusively male for no wrap (NW)
Seip:	Exclusively female (low N) for no wrap (NW)

*Age Distribution*

Ater, Esch, Hopewell, Martin, McKenzie, N Benton, Pence, Seip, Snake Den:	Largely adult for body wrap
Boyle's Farm, Hazlett, Hopeton, Kohl, Marietta, Rockhold, Rutledge, Shilder, Turner-Marriot, West, Wright:	Exclusively adult (low N) for body wrap
Finney, Turner:	Mixed adult (low N) for body wrap
Levina Russel:	Exclusively child (low N) for body wrap
Seip:	Exclusively adult (low N) for fabric (FB)
Ater:	Largely adult (low N) for bark (BK)
Hopewell:	Exclusively adult (low N) for bark (BK)
Seip:	Mixed (low N) for bark (BK)
N Benton:	Exclusively child (low N) for skin (SK)
Ater, Hopewell, Pence, Seip:	Exclusively adult for bark below (BB)
Ater, Hopewell, Rutledge:	Exclusively adult (low N) for bark cover (BC)
Seip:	Exclusively adult (low N) for skins below body (SB)
Esch, Hopewell, Seip:	Largely adult (low N) for no wrap (NW)
N Benton:	Exclusively adult (low N) for no wrap (NW)

**Platform***Sex Distribution*

Hopewell, N Benton:	Largely or exclusively male for present (P)
Rutledge, Seip:	Equal for present (P)

*Age Distribution*

Ater, Esch, Hopewell, Liberty, Martin, McKenzie, N Benton, Pence, Seip, Snake Den, Turner:	Largely adult for platform
Bourneville, Boyle's Farm, Hazlett, Hopeton, Kohl, Marietta, Rockhold, Rutledge, Shilder, Turner- Marriot, West, Wright:	Exclusively adult for platform
Finney:	Mixed (low N) for platform
Ater, McKenzie, N Benton, Pence, Rutledge, Turner:	Exclusively adult (low N) for present (P)
Hopewell, Seip:	Largely adult (low N) for present (P)

**Water<sup>3</sup>***Sex Distribution*

Hopewell:	Exclusively female (low N) for pearls (PE)
Seip:	Equal (low N) for pearls (PE)
N Benton, Seip, Turner:	Largely or exclusively male (low N) for light-colored stone (LT)
Hopewell:	Exclusively female (low N) for light-colored stone (LT)

*Age Distribution*

Ater, Hazlett, Kohl,	
N Benton:	Exclusively adult (low N) for water barrier
Hopewell, Seip, Turner:	Largely adult for water barrier
Hopewell, Seip:	Exclusively adult (low N) for pearls (PE)
Hopewell, Seip:	Exclusively adult (low N) for mica (MI)
Seip:	Mixed for shell (SH)
Ater, Hazlett, Hopewell,	
Kohl, N Benton:	Exclusively adult (low N) for light stone (LT)
Martin:	Exclusively child (low N) for light stone (LT)
Seip, Turner:	Largely adult for light stone (LT)
Hopewell, Kohl, Martin,	
Turner:	Exclusively adult for possible water barrier (P)
Hopewell:	Mixed for light stone and shells (A)

**Water Position***Sex Distribution*

N Benton:	Exclusively male (low N) for surrounding corpse (A)
Hopewell, Seip:	Equal (low N) for surrounding corpse (A)
Martin, Turner:	Exclusively male (low N) for above corpse (C)
Hopewell:	Exclusively female (low N) for surrounding corpse and below (D)
Seip:	Exclusively male (low N) for surrounding corpse and above (E)
Turner:	Equal (low N) for surrounding corpse and above (E)
Hopewell:	Exclusively male (low N) for near head (H)

*Age Distribution*

Ater, Hopewell, Kohl,	
N Benton:	Exclusively adult (low N) for surrounding corpse (A)
Seip:	Largely adult (low N) for surrounding corpse (A)
Turner:	Mixed (low N) for surrounding corpse (A)
Seip, Turner:	Exclusively adult (low N) for below corpse (B)
Hopewell:	Exclusively adult (low N) for above corpse (C)
Martin, Turner:	Mixed (low N) for above corpse (C)
Hopewell:	Exclusively adult (low N) for surrounding corpse and below (D)
Hazlett, Seip:	Exclusively adult (low N) for surrounding corpse and above (E)
Turner:	Mixed (low N) for surrounding corpse and above (E)
Seip:	Exclusively adult (low N) for surrounding, above, and below corpse (F)
Kohl:	Exclusively adult (low N) for beside body (G)
Seip:	Mixed (low N) for beside body (G)
Hopewell:	Exclusively adult (low N) for near head (H)
Hopewell:	Mixed (low N) for platform edge (S)

**Water Shape***Sex Distribution*

Martin:	Exclusively male (low N) for round or oval (R)
Hopewell:	Equal (low N) for round or oval (R)
Hopewell:	Exclusively female (low N) for square (S)
N Benton, Seip:	Exclusively male (low N) for square (S)
Turner:	Equal (low N) for square (S)
Seip:	Equal (low N) for outlining body (O)

*Age Distribution*

Ater, Hopewell, Kohl:	Exclusively adult for round or oval (R)
Martin, Turner:	Mixed (low N) for round or oval (R)

Ater, Hazlett, Kohl, N Benton:	Exclusively adult (low N) for square (S)
Hopewell, Seip, Turner:	Largely adult (low N) for square (S)
Seip:	Exclusively adult (low N) for outlining body (O)
Kohl:	Exclusively adult (low N) for line of objects beside body (L)
Seip:	Mixed (low N) for line of objects beside body (L)

**Grave Orientation***Sex Distribution*

Ater, Hopewell:	Largely or exclusively male for north (N)
Esch, Hopewell, Turner:	Exclusively male (low N) for south (S)
Esch, Hopewell: Martin, Seip:	Largely or exclusively female (low N) for east (E) Equal (low N) for east (E)
N Benton, Turner, Ater, Esch, Hopewell, N Benton, Seip:	Largely or exclusively male (low N) for west (W) Equal (low N) for west (W)
Turner: Hopewell:	Equal (low N) for west (W) Largely male for northeast (NE)
Ater: Hopewell:	Exclusively female for northwest (NW) Equal (low N) for northwest (NW)
Turner: Hopewell:	Exclusively male (low N) for northwest (NW) Largely male for southeast (SE)
Turner: Ater:	Equal (low N) for southeast (SE) Exclusively female (low N) for southwest (SW)
Hopewell: Turner:	Largely male (low N) for southwest (SW) Equal (low N) for southwest (SW)
Seip: Seip:	Largely male for north-south (NS) Largely female for east-west (EW)
Seip:	Exclusively male for northeast-southwest (NESW)

*Age Distribution*

Ater:	Mixed (low N) for north (N)
Hopewell, Turner: Kohl, McKenzie, Snake Den:	Largely adult (low N) for north (N) Exclusively adult for north (N)
Esch: Hopewell, McKenzie, Turner:	Mixed (low N) for south (S) Largely adult for south (S)
Esch, Martin: Hopewell, Seip, Turner: N Benton, Pence: Snake Den:	Mixed for east (E) Largely adult for east (E) Exclusively adult (low N) for east (E) Exclusively child (low N) for east (E)
Ater, Esch, Hopeton, Hopewell, Kohl, N Benton, Snake Den:	Exclusively adult for west (W) Exclusively child (low N) for west (W)
Seip: Turner: Esch, Turner:	Largely adult for west (W) Exclusively adult (low N) for northeast (NE)
Hopewell: Ater, Hopewell, McKenzie: Turner:	Largely adult (low N) for (NE) Exclusively adult for northwest (NW) Largely adult for northwest (NW)
Hopewell, Snake Den: Turner: Ater, Marietta, Turner:	Exclusively adult for southeast (SE) Largely adult for southeast (SE) Exclusively adult for southwest (SW)
Hopewell: Ater: Seip:	Largely adult for southwest (SW) Exclusively adult for north-south (NS) Largely adult for north-south (NS)
Ater, West:	Exclusively adult (low N) for east-west (EW)

Seip:	Largely adult for east-west (EW)
Ater:	Exclusively adult (low N) for northeast-southwest (NESW)
Seip:	Mixed (low N) for northeast-southwest (NESW)
Ater:	Mixed for northwest-southeast (NWSE)
Seip:	Largely adult for northwest-southeast (NWSE)
<b>Mica Sheets</b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Esch, Hopeton, Hopewell, Mound City, Rockhold, Seip, Turner:	Largely or exclusively burial for mica sheets
Liberty, N Benton, Tremper:	Exclusively deposit (low N) for mica sheets
Hopewell:	Equal (low N) for mica books (MB)
Turner:	Exclusively burial (low N) for mica books (MB)
Esch, Hopeton, Hopewell, Mound City, Rockhold, Seip, Turner:	Largely or exclusively burial for cut mica sheets (MC)
Esch, Hopewell, Mound City, Seip:	Largely or exclusively burial for sheets of mica (MS)
N Benton, Tremper:	Exclusively deposit (low N) for sheets of mica (MS)
Turner:	Equal (low N) for sheets of mica (MS)
<i>Sex Distribution</i>	
Hopeton, Rockhold, Turner:	Exclusively female (low N) for mica sheet
Hopewell:	Exclusively male (low N) for mica sheet
Hopeton, Rockhold:	Exclusively female (low N) for cut mica sheets (MC)
Turner:	Exclusively female (low N) for mica sheets (MS)
Hopewell:	Exclusively male (low N) for mica sheets (MS)
<i>Age Distribution</i>	
Esch, Hopeton, Hopewell, Rockhold, Seip, Schilder, Turner:	Exclusively adult for mica sheet
Schilder:	Exclusively adult (low N) for mica books (MB)
Esch, Hopeton, Hopewell, Rockhold, Seip, Turner:	Exclusively adult (low N) for cut mica sheets (MC)
Esch, Hopewell, Seip, Turner:	Exclusively adult (low N) for mica sheets (MS)
<b>Quartz Discoids</b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Hopewell:	Exclusively deposit (low N) for quartz discoids
<b>Quartz Cones</b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Hopewell:	Exclusively deposit (low N) for quartz cones
<b>Cones, Hemispheres</b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Hopewell:	Equal for cones, hemispheres
Kohl, Seip:	Exclusively burial (low N) for cones, hemispheres
Tremper, Turner:	Exclusively deposit (low N) for cones, hemispheres
<i>Sex Distribution</i>	
Hopewell:	Exclusively male (low N) for cones, hemispheres
Seip:	Exclusively female (low N) for cones, hemispheres
<i>Age Distribution</i>	
Hopewell, Kohl, Seip:	Exclusively adult (low N) for cones, hemispheres
<i>Ownership/Gifting Association</i>	
Hopewell, Kohl, Seip:	Exclusively one or three (low N) for cones, hemispheres



**Quartz Boatstones***Burial/Ceremonial Deposit Distribution*

Hopewell, Seip: Exclusively deposit (low N) for quartz boatstones

**Boatstones***Burial/Ceremonial Deposit Distribution*

Hopewell, Tremper, Turner: Largely or exclusively deposit (low N) for boatstones  
 Seip: Equal (low N) for boatstones  
 Seip: Exclusively burial (low N) for plain (PL)  
 Hopewell: Exclusively burial (low N) for effigy beaver (EB)  
 Seip: Exclusively burial (low N) for effigy duck (ED)  
 Hopewell: Exclusively deposit (low N) for effigy crow and effigy eagle (A)  
 Seip: Exclusively deposit (low N) for effigy owl and effigy vulture (B)  
 Turner: Exclusively deposit (low N) for horned serpent (C)  
 Hopewell: Exclusively deposit (low N) for effigy salamander, plain, and effigy owl (D)  
 Tremper: Exclusively deposit (low N) for plain and effigy beaver, and effigy beetle (E)

*Sex Distribution*

Seip: Exclusively female (low N) for plain (PL)

*Age Distribution*

Hopewell, Seip: Exclusively adult (low N) for boatstones  
 Seip: Exclusively adult (low N) for plain (PL)  
 Hopewell: Exclusively adult (low N) for effigy beaver (EB)  
 Seip: Exclusively adult (low N) for effigy duck (ED)

**Quartz Cups***Burial/Ceremonial Deposit Distribution*

Hopewell: Exclusively deposit (low N) for quartz cups

**Quartz, Other Colored Pebbles***Burial/Ceremonial Deposit Distribution*

Ater, Hopewell: Exclusively burial (low N) for quartz, other colored pebbles  
 Ater, Hopewell: Exclusively burial (low N) for quartz pebbles (Q)

*Age Distribution*

Hopewell: Exclusively adult (low N) for quartz, other colored pebbles  
 Hopewell: Exclusively adult (low N) for quartz pebbles (Q)

*Ownership/Gifting Association*

Ater: Exclusively several (low N) for quartz, other colored pebbles  
 Hopewell: Exclusively 25 (low N) for quartz, other colored pebbles  
 Seip: Exclusively many (low N) for quartz, other colored pebbles  
 Seip: Exclusively many (low N) for colored pebbles (C)  
 Ater: Exclusively several (low N) for quartz pebbles (Q)  
 Hopewell: Exclusively 25 (low N) for quartz pebbles (Q)

**Marbles***Burial/Ceremonial Deposit Distribution*

Seip: Exclusively deposit (low N) for marbles

**Copper Balls***Burial/Ceremonial Deposit Distribution*

Hopewell: Equal (low N) for copper balls  
 N Benton: Exclusively burial (low N) for copper balls

*Age Distribution*

Hopewell, N Benton: Exclusively adult (low N) for copper balls

<i>Ownership/Gifting Association</i>	
Hopewell, N Benton:	Exclusively one (low N) for copper balls
<b>Plummets</b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Hopewell, Seip:	Exclusively deposit (low N) for plummets
<i>Age Distribution</i>	
Marietta:	Exclusively adult for plummets
<i>Ownership/Gifting Association</i>	
Marietta:	Exclusively one (low N) for plummets
<b>Fossils, Concretions</b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Hopewell:	Exclusively deposit (low N) for fossils, concretions
Mound City, Turner:	Equal (low N) for fossils, concretions
Turner:	Exclusively burial (low N) for concretions (CN)
Hopewell, Turner:	Exclusively deposit (low N) for fossils (FS)
Mound City:	Equal (low N) for fossils (FS)
Turner:	Exclusively deposit (low N) for fossils and concretions (FC)
<i>Age Distribution</i>	
Turner:	Exclusively child for concretions (CN)
<b>Tube, Function Unknown</b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Mound City:	Equal (low N) for tube of unknown function
N Benton, Seip:	Exclusively burial (low N) for tube of unknown function
Seip:	Exclusively burial (low N) for wood (WD)
Mound City:	Equal (low N) for copper (CP)
N Benton:	Exclusively burial (low N) for wood with silver cover (WS)
<i>Sex Distribution</i>	
N Benton:	Exclusively male (low N) for tube of unknown function
N Benton:	Exclusively male (low N) for wood with silver cover (WS)
<i>Age Distribution</i>	
Hazlett, Marietta, N Benton,	
Seip:	Exclusively adult (low N) for tube of unknown function
Seip:	Exclusively adult (low N) for tube wood (WD)
Marietta:	Exclusively adult (low N) for copper (CP)
Hazlett:	Exclusively adult (low N) for wood with copper cover (WC)
N Benton:	Exclusively adult (low N) for wood with silver cover (WS)
<b>Barracuda Jaws</b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Hopewell:	Exclusively burial (low N) for barracuda jaws
<i>Sex Distribution</i>	
Hopewell:	Exclusively male (low N) for barracuda jaws
<i>Age Distribution</i>	
Hopewell:	Exclusively adult (low N) for barracuda jaws
<i>Ownership/Gifting Association</i>	
Hopewell:	Exclusively one (low N) for barracuda jaws
<b>Shark Teeth</b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Hopewell, Liberty,	
Mound City, Seip:	Equal (low N) for shark teeth
Turner:	Exclusively deposit (low N) for shark teeth
<i>Age Distribution</i>	
Hopewell, Seip:	Exclusively adult (low N) for shark teeth

*Ownership/Gifting Association*

Hopewell: Exclusively one (low N) for shark teeth

**Alligator Power Parts***Burial/Ceremonial Deposit Distribution*

Mound City: Exclusively burial (low N) for alligator power parts  
 Seip: Equal (low N) for alligator power parts  
 Turner: Exclusively deposit (low N) for alligator power parts  
 Turner: Exclusively deposit (low N) for teeth (TE)  
 Seip: Exclusively deposit (low N) for drilled teeth (TD)  
 Mound City, Seip: Exclusively burial (low N) for effigy teeth of copper (ETC)

*Age Distribution*

Seip: Exclusively adult (low N) for alligator power parts  
 Seip: Exclusively adult (low N) for effigy teeth of copper (ETC)

**Rattles***Burial/Ceremonial Deposit Distribution*

Mound City: Exclusively burial (low N) for rattles  
 Turner: Exclusively deposit (low N) for rattles  
 Mound City: Exclusively burial (low N) for turtle effigy belt (TU)  
 Turner: Exclusively deposit (low N) for all types of tinklers (A)

**Fans***Burial/Ceremonial Deposit Distribution*

Hopewell: Exclusively deposit (low N) for fans  
 Hopewell: Exclusively deposit (low N) for copper (CP)  
 Hopewell: Exclusively deposit (low N) for stone (ST)

**Copper Nose Inserts***Burial/Ceremonial Deposit Distribution*

Hopewell, Seip: Exclusively burial (low N) for copper nose inserts

*Sex Distribution*

Seip: Exclusively female (low N) for copper nose inserts  
 Hopewell: Equal (low N) for copper nose inserts

*Age Distribution*

Hopewell: Exclusively older adult (low N) for copper nose inserts  
 Seip: Exclusively adult (low N) for copper nose inserts

*Ownership/Gifting Association*

Hopewell, Seip: Exclusively one (low N) for copper nose inserts

**Mushrooms***Burial/Ceremonial Deposit Distribution*

Hopewell: Exclusively deposit (low N) for mushrooms  
 Mound City: Exclusively burial (low N) for mushrooms  
 Hopewell: Exclusively deposit (low N) for stone (MP)  
 Mound City: Exclusively burial (low N) for copper effigy (C)

**Flying Humans***Burial/Ceremonial Deposit Distribution*

Hopewell: Exclusively deposit (low N) for flying humans  
 Hopewell: Exclusively deposit (low N) for copper

**Owls***Burial/Ceremonial Deposit Distribution*

Hopewell, Seip: Exclusively deposit (low N) for owls  
 Seip: Exclusively deposit (low N) for owl pipe (PIP)  
 Seip: Exclusively deposit (low N) for owl effigy, non-pipe (EFF)  
 Hopewell: Exclusively deposit (low N) for effigy owl eyes of mica and boatstone (EEM)  
 Hopewell: Exclusively deposit (low N) for effigy owl eyes of copper (EEC)

**Supernaturals**

*Burial/Ceremonial Deposit Distribution*

Turner: Equal (low N) for supernaturals  
 Turner: Exclusively deposit (low N) for horned serpents (H)  
 Turner: Exclusively burial (low N) for fish with rattle tails (A)

**Awls**

*Burial/Ceremonial Deposit Distribution*

Ater, Esch, Hopewell,  
 Liberty, Martin,  
 Mound City, N Benton,  
 Seip, Turner: Largely or exclusively burial for awls

*Sex Distribution*

Hopewell, Seip: Exclusively male (low N) for awls  
 Turner: Equal (low N) for awls

*Age Distribution*

Ater, Bourneville, Hopewell,  
 N Benton, Seip: Exclusively adult for awls  
 Esch, Martin, Snake Den: Exclusively child (low N) for awls  
 Turner: Largely adult (low N) for awls

*Ownership/Gifting Association*

Ater, Esch, Mound City,  
 Snake Den: Exclusively one (low N) for awls  
 Bourneville, N Benton,  
 Turner: Exclusively or largely several (low N) for awls  
 Liberty, Martin, Seip: Exclusively or largely many for awls  
 Hopewell: Equally one or several for Hopewell

**Quartz Bifaces**

*Burial/Ceremonial Deposit Distribution*

Hopewell: Exclusively deposit (low N) for quartz bifaces  
 Mound City, N Benton: Largely or exclusively burial for quartz bifaces  
 N Benton: Exclusively burial (low N) for points/knives(PK)  
 Hopewell: Exclusively deposit (low N) for points/knives (PK)  
 Mound City: Exclusively burial (low N) for unknown bifaces (UB)  
 Hopewell: Exclusively deposit (low N) for unknown bifaces (UB)  
 Mound City: Equal (low N) for unknown bifaces (UB)  
 Mound City: Exclusively deposit (low N) for symmetrical bifaces,  
 unknown bifaces, and points/knives (A)

*Sex Distribution*

N Benton: Exclusively male (low N) for quartz bifaces  
 N Benton: Exclusively male (low N) for points/knives (PK)

*Age Distribution*

N Benton: Exclusively adult (low N) for quartz bifaces  
 N Benton: Exclusively adult (low N) for points/knives (PK)

*Ownership/Gifting Association*

Mound City, N Benton: Exclusively one or several (low N) for quartz bifaces  
 N Benton: Exclusively one (low N) for points/knives (PK)  
 Mound City: Exclusively one or several (low N) for unknown bifaces (UB)

**Gem Bifaces**

*Burial/Ceremonial Deposit Distribution*

Hopewell: Exclusively burial for gem bifaces  
 Mound City: Exclusively deposit (low N) for gem bifaces  
 Hopewell: Exclusively burial (low N) for points/knives (PK)  
 Hopewell: Exclusively burial (low N) for symmetrical bifaces (SB)  
 Hopewell: Exclusively burial (low N) for Ross-barbed (RB)

Hopewell:	Exclusively burial (low N) for unknown bifaces (UB)
Mound City:	Exclusively deposit (low N) for unknown bifaces (UB)
<i>Sex Distribution</i>	
Hopewell:	Exclusively male (low N) for gem bifaces
Hopewell:	Exclusively male (low N) for points/knives (PK)
Hopewell:	Exclusively male (low N) for Ross-barbed (RB)
Hopewell:	Exclusively male (low N) for unknown bifaces (UB)
<i>Age Distribution</i>	
Hopewell:	Exclusively older adult (low N) for gem bifaces
Hopewell:	Exclusively adult (low N) for symmetrical bifaces (SB)
Hopewell:	Exclusively adult (low N) for Ross-barbed (RB)
Hopewell:	Exclusively adult (low N) for unknown bifaces (UB)
<i>Ownership/Gifting Association</i>	
Hopewell:	Exclusively one for gem bifaces
Hopewell:	Exclusively one (low N) for points/knives (PK)
Hopewell:	Exclusively one for symmetrical bifaces (SB)
Hopewell:	Exclusively one (low N) for Ross-barbed (RB)
Hopewell:	Exclusively one for unknown bifaces (UB)
<b>Other Translucent Bifaces</b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Ater, Hopewell:	Exclusively burial (low N) for other translucent bifaces
Ater:	Exclusively burial (low N) for points/knives (PK)
Hopewell:	Exclusively burial (low N) for symmetrical bifaces (SB)
<i>Sex Distribution</i>	
Ater:	Exclusively female (low N) for other translucent bifaces
Ater:	Exclusively female (low N) for points/knives (PK)
<i>Age Distribution</i>	
Ater, Hopewell:	Exclusively adult (low N) for other translucent bifaces
Ater, Hopewell:	Exclusively adult (low N) for points/knives (PK)
<i>Ownership/Gifting Association</i>	
Ater, Hopewell:	Exclusively one (low N) for other translucent bifaces
Ater:	Exclusively one (low N) for points/knives (PK)
Hopewell:	Exclusively one for symmetrical bifaces (SB)
<b>Obsidian Bifaces</b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Hopewell, Turner:	Largely or exclusively deposit for obsidian bifaces
Mound City:	Largely burial for obsidian bifaces
Seip:	Equal (low N) for obsidian bifaces
Mound City, Turner:	Exclusively deposit (low N) for points/knives (PK)
Hopewell:	Exclusively burial (low N) for points/knives (PK)
Hopewell:	Exclusively deposit (low N) for Ross-barbed (RB)
Mound City:	Exclusively burial (low N) for Ross-barbed (RB)
Seip:	Exclusively deposit (low N) for symmetrical bifaces (SB)
Seip:	Exclusively burial (low N) for odd bifaces (OB)
Mound City:	Exclusively burial (low N) for unknown bifaces (UB)
Mound City:	Exclusively burial (low N) for unknown bifaces (UB)
Hopewell:	Exclusively deposit (low N) for Ross-barbed, symmetrical bifaces, and odd bifaces (A)
Hopewell:	Exclusively deposit (low N) for symmetrical bifaces and points/knives (B)
Mound City:	Exclusively burial (low N) for symmetrical bifaces and Ross-barbed (C)
Mound City:	Exclusively deposit (low N) for odd bifaces and unknown bifaces (E)



<i>Age Distribution</i>	
Hopewell:	Exclusively adult (low N) for obsidian bifaces
Hopewell:	Exclusively adult (low N) for points/knives (PK)
Hopewell:	Exclusively adult (low N) for Ross-barbed (RB)
<i>Ownership/Gifting Association</i>	
Hopewell:	Exclusively many (low N) for obsidian bifaces
Mound City:	Largely one for obsidian bifaces
Seip:	Exclusively four (low N) for obsidian bifaces
Hopewell:	Exclusively many (low N) for points/knives (PK)
Mound City:	Exclusively one or two (low N) for Ross-barbed (RB)
Mound City:	Exclusively one (low N) for symmetrical bifaces (SB)
Seip:	Exclusively four (low N) for odd bifaces (OB)
Mound City:	Exclusively one (low N) for unknown bifaces (UB)
<b>Fancy Points</b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Ater, Liberty:	Exclusively burial (low N) for fancy points
Hopewell:	Equal (low N) for fancy points
Turner:	Exclusively deposit (low N) for fancy points
Ater, Hopewell, Liberty:	Exclusively burial (low N) for mica (MI)
Hopewell:	Exclusively deposit (low N) for copper (CP)
Turner:	Exclusively deposit (low N) for mica schist (MS)
<i>Sex Distribution</i>	
Ater, Hopewell:	Exclusively male (low N) for fancy points
Ater, Hopewell:	Exclusively female (low N) for mica (MI)
<i>Age Distribution</i>	
Ater, Hopewell:	Exclusively adult (low N) for fancy points
Ater, Hopewell:	Exclusively adult (low N) for mica (MI)
<i>Ownership/Gifting Association</i>	
Ater, Liberty, Hopewell:	Exclusively one or three (low N) for fancy points
Ater, Liberty, Hopewell:	Exclusively one or three (low N) for mica (MI)
<b>Weapons</b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Hopewell:	Equal (low N) for weapons
Hopewell:	Exclusively deposit (low N) for mica (MC)
Hopewell:	Exclusively burial (low N) for atl-atl shaped tortoise shell comb (TC)
<i>Age Distribution</i>	
Hopewell:	Exclusively adult (low N) for weapons
Hopewell:	Exclusively adult (low N) for atl-atl shaped tortoise shell comb (TC)
<b>Fancy Prismatic Blades</b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Ginther:	Exclusively deposit (low N) for fancy prismatic blades
Hopewell:	Equal (low N) for fancy prismatic blades
Liberty, N Benton, Turner:	Exclusively burial (low N) for fancy prismatic blades
Ginther:	Exclusively deposit (low N) for gem (GM)
Hopewell, Turner:	Exclusively burial (low N) for gem (GM)
Hopewell:	Exclusively deposit (low N) for gem (GM)
Hopewell:	Exclusively deposit (low N) for other translucent (OT)
Hopewell, Liberty:	Exclusively burial (low N) for odd bifaces (OB)
N Benton:	Exclusively burial (low N) for gem and other translucent (OT)
<i>Sex Distribution</i>	
Hopewell, N Benton:	Exclusively male (low N) for fancy prismatic blades
Turner:	Exclusively female (low N) for fancy prismatic blades

Hopewell:	Exclusively male (low N) for gem (GM)
Turner:	Exclusively female (low N) for gem (GM)
N Benton:	Exclusively male (low N) for gem and other translucent (OT)

*Age Distribution*

Hopewell, Levina Russell, N Benton, Turner:	Exclusively adult (low N) for fancy prismatic blades
Hopewell, Turner:	Exclusively adult (low N) for gem (GM)
Hopewell:	Exclusively adult (low N) for odd bifaces (OB)
Liberty:	Exclusively adult (low N) for odd bifaces (OB)
N Benton:	Exclusively adult (low N) for gem and other translucent (OT)

*Ownership/Gifting Association*

Hopewell:	Exclusively seven or many (low N) for fancy prismatic blades
Liberty, N Benton, Turner:	Exclusively one or three (low N) for fancy prismatic blades
Hopewell:	Exclusively seven (low N) for gem (GM)
N Benton, Turner:	Exclusively one (low N) for gem (GM)
N Benton:	Exclusively three (low N) for other translucent (OT)
Hopewell:	Exclusively many (low N) for odd bifaces (OB)
Liberty:	Exclusively one (low N) for odd bifaces (OB)

**Big Pipes***Burial/Ceremonial Deposit Distribution*

Esch, Seip:	Exclusively deposit (low N) for big pipes
Seip:	Exclusively deposit (low N) for owls, miscellaneous birds, dogs/wolves, and bears (A)
Esch:	Exclusively deposit (low N) for alligators (AL)

**Small Pipes***Burial/Ceremonial Deposit Distribution*

Ater, Esch, Hopeton, Hopewell, Liberty, Martin, N Benton, Seip, Turner:	Largely or exclusively burial for small pipes
Mound City:	Equal for small pipes
Tremper:	Exclusively deposit (low N) for small pipes
Seip:	Exclusively burial (low N) for short-beaked raptor (SB)
Turner:	Exclusively burial (low N) for non-platform pipe (NP)
Ater, Esch, Hopewell, Liberty, Martin, Mound City, N Benton, Seip, Turner:	Exclusively burial for plain (PL)
Mound City:	Exclusively deposit (low N) for various unspecified types (VU)
Mound City:	Exclusively deposit (low N) for various animal and human types (VT)
Hopewell:	Exclusively deposit (low N) for plain and duck and serpent (A)
Hopewell:	Exclusively deposit (low N) for plain and bird on fish's back and roseate spoonbill (B)
Mound City:	Exclusively deposit (low N) for miscellaneous bird and unknown (C)
Mound City:	Exclusively burial (low N) for plain, otter, rabbit, frog, misc. bird, and pheasant (D)
Tremper:	Exclusively deposit (low N) for multiple forms (E)
Tremper:	Exclusively deposit (low N) for plain and unknown (F)
Mound City:	Exclusively burial (low N) for plain, frog, crow, and misc. bird (G)

*Sex Distribution*

Esch, Hopewell, N Benton:	Exclusively male (low N) for small pipes
Hopeton:	Exclusively female (low N) for small pipes
Esch, Hopewell, N Benton:	Exclusively male (low N) for plain (PL)

*Age Distribution*

Ater, Esch, Hopeton, Hopewell, N Benton, Seip, Turner, Wright:	Exclusively adult for small pipes
Martin:	Exclusively child (low N) for small pipes
Seip:	Exclusively adult (low N) for stone (ST)
Turner:	Exclusively adult (low N) for no prep (NP)
Ater, Esch, Hopewell, N Benton, Seip, Turner, Wright:	Exclusively adult (low N) for plain (PL)
Martin:	Exclusively child (low N) for plain (PL)

*Ownership/Gifting Association*

Ater, Esch, Hopeton, Hopewell, Liberty, Martin, Mound City, N Benton, Seip, Turner, Wright:	Largely or exclusively one for small pipes (28/31 have one only)
--	--

**Panpipe**

*Burial/Ceremonial Deposit Distribution*

Ater, Circleville, Kohl, N Benton, Turner:	Exclusively burial (low N) for panpipes
Hopewell:	Equal for panpipes
Ater, Hopewell, Kohl, N Benton:	Exclusively burial (low N) for tubular, long copper, 3 tubes (1A)
Hopewell:	Exclusively burial (low N) for tubular, probably long, copper, 3 tubes (1B)
Hopewell:	Exclusively deposit (low N) for tubular, long, copper-iron, 4 tubes (1C)
Esch:	Exclusively burial (low N) for tubular, long, copper-silver, 3 tubes (1D)
Turner:	Exclusively deposit (low N) for tubular, long, iron, 3 tubes (1G)
Turner:	Exclusively burial (low N) for copper band (2)

*Sex Distribution*

Ater, N Benton:	Exclusively male (low N) for panpipe
Hopewell:	Exclusively female (low N) for panpipe
Turner:	Equal (low N) for panpipe
Ater, N Benton:	Exclusively male (low N) for tubular, long, copper, 3 tubes (1A)
Hopewell:	Exclusively female (low N) for tubular, probably long, copper, 3 tubes (1B)
Turner:	Equal (low N) for copper band (2)

*Age Distribution*

Ater, Hopewell, Kohl, Marietta, N Benton, Turner:	Exclusively adult (low N) for panpipes
Esch:	Exclusively child (low N) for panpipes
Ater, Kohl, N Benton:	Exclusively adult (low N) for tubular, long, copper, 3 tubes (1A)
Hopewell:	Exclusively adult (low N) for tubular, probably long, copper, 3 tubes (1B)
Esch:	Exclusively child (low N) for tubular, long, copper-silver, 3 tubes (1D)
Turner:	Exclusively adult (low N) for copper band (2)
Marietta:	Exclusively adult (low N) for silver band (3)

**Flute***Burial/Ceremonial Deposit Distribution*

Hopewell, Rockhold: Exclusively burial (low N) for flute

*Sex Distribution*

Hopewell: Exclusively female (low N) for flute

*Age Distribution*

Hopewell: Exclusively adult (low N) for flute

*Ownership/Gifting Association*

Hopewell, Rockhold: Exclusively one (low N) for flute

**Painting Equipment***Burial/Ceremonial Deposit Distribution*

Seip, Turner: Exclusively burial (low N) for painting equipment

Tremper: Exclusively deposit (low N) for painting equipment

Seip: Exclusively burial (low N) for cup (CU)

Turner: Exclusively burial (low N) for cup with ochre (CO)

*Age Distribution*

Seip: Exclusively adult (low N) for painting equipment

Turner: Exclusively child (low N) for painting equipment

Seip: Exclusively adult (low N) for cup (CU)

Turner: Exclusively child (low N) for cup with ochre (CO)

**Stone Tablets***Burial/Ceremonial Deposit Distribution*

Hopewell, Liberty, Tremper: Largely or exclusively deposit for stone tablets

Kohl, Seip: Exclusively burial (low N) for stone tablets

*Age Distribution*

Kohl, Seip: Exclusively adult (low N) for stone tablets

*Ownership/Gifting Association*

Hopewell, Kohl, Seip: Exclusively one or two for stone tablets

**Fancy Pottery***Burial/Ceremonial Deposit Distribution*

Esch, Martin: Exclusively burial (low N) for fancy pottery

Hopewell, Liberty, Seip: Equal (low N) for fancy pottery

Mound City, Turner,

Turner-Marriot: Largely or exclusively deposit (low N) for fancy pottery

*Age Distribution*

Esch, Martin: Exclusively child (low N) for fancy pottery

Seip: Exclusively adult (low N) for fancy pottery

*Ownership/Gifting Association*

Esch, Liberty, Martin: Exclusively one or three for fancy pottery

**Tortoise Shell Ornaments***Burial/Ceremonial Deposit Distribution*

Hopewell, Martin, Seip: Largely or exclusively burial for tortoise shell ornaments

Turner: Exclusively deposit (low N) for tortoise shell ornaments

Seip: Exclusively burial (low N) for comb (CB)

Hopewell: Exclusively burial (low N) for scroll shape (SC)

Hopewell: Exclusively burial (low N) for spatula shape (SP)

Turner: Exclusively deposit (low N) for spatula shape (SP)

Hopewell: Exclusively burial (low N) for tablet (TB)

Hopewell: Exclusively deposit (low N) for pendant like (PD)

Martin: Exclusively burial (low N) for pendant like (PD)

Seip: Exclusively burial (low N) for bird carving (BC)

*Sex Distribution*

Hopewell:	Exclusively male (low N) for tortoise shell ornaments
Seip:	Exclusively female (low N) for tortoise shell ornaments
Hopewell:	Exclusively male (low N) for scroll shaped (SC)
Hopewell:	Exclusively male (low N) for tablet (TB)
Seip:	Exclusively female (low N) for bird carving (BC)

*Age Distribution*

Hopewell:	Exclusively adult (low N) for tortoise shell ornaments
Martin:	Exclusively child (low N) for tortoise shell ornaments
Hopewell:	Exclusively adult (low N) for scroll shaped (SC)
Hopewell:	Exclusively adult (low N) for tablet (TB)
Martin:	Exclusively child (low N) for pendant-like (PD)

**Trophy Skulls, Jaws***Burial/Ceremonial Deposit Distribution*

Ater, Hopewell, Kohl, Liberty, N Benton, Turner:	Largely or exclusively burial for trophy skulls, jaws
Tremper, Turner-Marriot:	Exclusively deposit (low N) for trophy skulls, jaws
Ater, Hopewell, Liberty:	Exclusively burial (low N) for jaws (JW)
Tremper:	Exclusively deposit (low N) for jaws (JW)
Hopewell:	Exclusively burial (low N) for maxilla (MX)
Ater, Hopewell, Kohl, Liberty, N Benton, Turner:	Exclusively burial for skulls (SK)
Turner-Marriot:	Exclusively deposit (low N) for skulls (SK)
Hopewell:	Equal (low N) for jaws and maxillae (A)

*Sex Distribution*

Ater, Hopewell, Liberty, N Benton:	Largely or exclusively male for trophy skulls, jaws
Hopewell:	Exclusively female (low N) for jaws (JW)
Ater, Hopewell, Liberty, N Benton:	Exclusively male (low N) for skulls
Hopewell:	Exclusively male (low N) for skulls and maxillae (B)

*Age Distribution*

Ater, Hopewell, Kohl, N Benton, Turner:	Exclusively adult for trophy skulls, jaws
Liberty:	Mixed (low N) for trophy skulls, jaws
Ater, Hopewell:	Exclusively adult (low N) for jaws (JW)
Liberty:	Exclusively child (low N) for jaws (JW)
Hopewell:	Exclusively adult (low N) for maxillae (MX)
Ater, Hopewell, Kohl, Liberty, N Benton, Turner:	Exclusively adult for skulls (SK)
Hopewell:	Exclusively adult (low N) for jaws and maxillae (A)
Hopewell:	Exclusively adult (low N) for skulls and maxillae (B)

*Ownership/Gifting Association*

Hopewell, Kohl, Liberty:	Largely or exclusively one for trophy skulls and jaws (14/17 are one only)
N Benton:	Exclusively one or two (low N) for trophy skulls and jaws.

**Trophy Fingers***Burial/Ceremonial Deposit Distribution*

Hopewell:	Equal for trophy fingers
-----------	--------------------------

*Age Distribution*

Hopewell:	Exclusively adult (low N) for trophy fingers
-----------	--

*Ownership/Gifting Association*

Hopewell:	Exclusively one (low N) for trophy fingers
-----------	--



**Trophy Hands***Sex Distribution*

Hopewell: Exclusively male (low N) for trophy hands

*Age Distribution*

Hopewell: Exclusively adult (low N) for trophy hands

*Ownership/Gifting Association*

Hopewell, Mound City: Exclusively one or two (low N) for trophy hands

**Female Human Effigy***Burial/Ceremonial Deposit Distribution*

Hopewell: Exclusively burial (low N) for female human effigy

Turner: Exclusively deposit (low N) for female human effigy

*Sex Distribution*

Hopewell: Exclusively male (low N) for female human effigy

*Age Distribution*

Hopewell: Exclusively adult (low N) for female human effigy

*Ownership/Gifting Association*

Hopewell: Exclusively one (low N) for female human effigy

**Male Human Effigy***Burial/Ceremonial Deposit Distribution*

Turner: Exclusively deposit (low N) for male human effigy

**Human Effigy, Sex Unknown***Burial/Ceremonial Deposit Distribution:*

Hopewell, Turner: Exclusively deposit (low N) for human effigy of unknown sex

Mound City: Equal (low N) for human effigy of unknown sex

Seip: Exclusively burial (low N) for human effigy of unknown sex

*Age Distribution*

Seip: Exclusively adult (low N) for human effigy of unknown sex

*Ownership/Gifting Association*

Mound City, Seip, Snake

Den: Exclusively one (low N) for human effigy of unknown sex

**Animal Carvings<sup>4</sup>***Burial/Ceremonial Deposit Distribution:*

Hopewell: Equal for animal carvings

Liberty, N Benton,

Seip, Turner: Exclusively deposit (low N) for animal carvings

Mound City, Tremper: Largely or exclusively burial (low N) for animal carvings

Hopewell, Mound City: Exclusively burial (low N) for eagles (EG)

Tremper: Exclusively burial (low N) for bear (BR)

Hopewell: Exclusively deposit (low N) for snake (SN)

Seip: Exclusively deposit (low N) for insects (IN)

Hopewell: Exclusively deposit (low N) for fish (FI)

Hopewell: Exclusively burial (low N) for misc. birds (MB)

Liberty, North Benton: Exclusively deposit (low N) for misc. birds (MB)

Mound City: Exclusively deposit (low N) for turtle (TU)

Hopewell: Exclusively burial (low N) for misc. birds and bears (A)

Turner: Exclusively deposit (low N) for misc. birds and bears (A)

Hopewell: Exclusively deposit (low N) for spoonbills and misc. birds (B)

*Age Distribution*

Hopewell: Exclusively adult (low N) for animal carvings

Hopewell: Exclusively adult (low N) for eagles (EG)

Hopewell: Exclusively adult (low N) for miscellaneous birds (MB)

Hopewell: Exclusively adult (low N) for misc. birds and bears (A)

**Carved Bones***Burial/Ceremonial Deposit Distribution*

Hopewell, Turner:	Largely or exclusively deposit (low N) for carved bones
Turner:	Exclusively deposit (low N) for human parietals (PH)
Turner:	Exclusively deposit (low N) for human ulna and ribs (A)

*Age Distribution*

Hopewell:	Exclusively adult (low N) for carved bones
-----------	--

**Headplates***Burial/Ceremonial Deposit Distribution*

Ater, Marietta Area, Mound City, Seip: Turner:	Exclusively burial for headplates Equal (low N) for headplates
Hopewell, Mound City: Hopewell:	Exclusively burial (low N) for plain (PL) Exclusively burial (low N) for antler stubs (AS)
Hopewell, Mound City: Hopewell:	Exclusively burial (low N) for antler rack (RA) Exclusively burial (low N) for cat paw (CP)
Mound City: Hopewell:	Exclusively burial (low N) for dog (DG) Exclusively burial (low N) for winged bird (WB)
Hopewell:	Exclusively burial (low N) for shell and/or pearl attachments (SP)
Mound City: Hopewell:	Exclusively burial (low N) for headless human (HH) Exclusively burial (low N) for feather-like (FL)
Turner: Hopewell:	Exclusively deposit (low N) for Iron (IR) Exclusively burial (low N) for antler stubs and iron (A)

*Sex Distribution*

Hopewell:	Exclusively male for headplates
Hopewell:	Exclusively male (low N) for plain (PL)
Hopewell:	Exclusively male (low N) for antler rack (RA)
Hopewell:	Exclusively male (low N) for cat paw (CP)
Hopewell:	Exclusively male (low N) for winged bird (WB)
Hopewell:	Exclusively male (low N) for shell and/or pearl attachments (SP)

*Age Distribution*

Ater, Boyle's Farm, Hopewell, Turner:	Exclusively adult for headplates
Hopewell:	Exclusively adult (low N) for plain (PL)
Hopewell:	Exclusively adult (low N) for antler stubs (AS)
Hopewell:	Exclusively adult (low N) for antler rack (RA)
Hopewell:	Exclusively adult (low N) for cat paw (CP)
Hopewell:	Exclusively adult (low N) for winged bird (WB)
Hopewell:	Exclusively adult (low N) for shell and/or pearl attachments (SP)
Hopewell:	Exclusively adult (low N) for feather-like (FL)
Hopewell:	Exclusively adult (low N) for antler stubs and iron (A)

*Ownership/Gifting Association*

Ater, Boyle's Farm, Hopewell, Marietta area, Mound City, Turner:	Largely or exclusively one for headplates (19/20 cases)
--	---

**Copper Celts***Burial/Ceremonial Deposit Distribution*

Ater, Esch, Hopewell, Levina Russel, Liberty, Mound City, N Benton, Rockhold, Seip, Turner:	Largely or exclusively burial for copper celts
--	--

*Sex Distribution*

Ater:	Exclusively male (low N) for copper celts
Hopewell, Liberty, Seip:	Exclusively female (low N) for copper celts

*Age Distribution*

Ater:	Exclusively adult (low N) for copper celts
Esch, Levina Russel, N Benton:	Exclusively child (low N) for copper celts
Hopewell, Seip, Turner:	Largely adult for copper celts
Liberty:	Mixed (low N) for copper celts

*Ownership/Gifting Association*

Esch, Hopewell, Levina Russel, Liberty, N Benton, Rockhold, Seip, Turner:	Largely or exclusively one for copper celts
---	---

**Iron Celts***Burial/Ceremonial Deposit Distribution*

Hopewell:	Equal (low N) for iron celts
-----------	------------------------------

*Age Distribution*

Hopewell:	Exclusively adult (low N) for iron celts
-----------	--

*Ownership/Gifting Association*

Ater:	Exclusively one (low N) for iron celts
-------	--

**Stone Celts***Burial/Ceremonial Deposit Distribution*

Esch, Mound City, N Benton, Seip, Turner:	Exclusively burial for stone celts
Hopewell:	Equal for stone celts
Martin:	Exclusively deposit for stone celts

*Sex Distribution*

Esch:	Equal (low N) for stone celts
Hopewell, N Benton:	Exclusively male (low N) for stone celts

*Age Distribution*

Esch, Hopewell, N Benton:	Exclusively adult (low N) for stone celts
Turner:	Exclusively child (low N) for stone celts

*Ownership/Gifting Association*

Esch, Hopewell, McKenzie, Snake Den, Turner:	Largely or exclusively one for stone celts
N Benton:	Exclusively four (low N) for stone celts

**Conch Shells***Burial/Ceremonial Deposit Distribution*

Ater, Esch, Hopeton, Hopewell, Liberty, Mound City, Rockhold, Seip, Turner:	Largely or exclusively burial for conch shells
--	--

*Sex Distribution*

Ater, Hopewell:	Largely or exclusively male (low N) for conch shells
Hopeton, Seip, Turner:	Exclusively female (low N) for conch shells

*Age Distribution*

Ater, Bourneville, Hopeton:	Exclusively adult (low N) for conch shells
Esch, Liberty:	Exclusively child (low N) for conch shells
Hopewell, Seip, Turner:	Largely adult for conch shells

*Ownership/Gifting Association*

Ater, Bourneville, Esch, Hopeton, Hopewell, Liberty, Turner, Wright:	Largely or exclusively one for conchs
Mound City:	Exclusively seven (low N) for conchs

**Shell Spoons**

*Burial/Ceremonial Deposit Distribution*

Ater, Hopewell, Turner: Exclusively burial for shell spoons

*Sex Distribution*

Hopewell: Exclusively male (low N) for shell spoons  
 Turner: Exclusively female (low N) for shell spoons

*Age Distribution*

Ater, Hopewell: Exclusively adult (low N) for shell spoons  
 Turner: Largely adult (low N) for shell spoons

*Ownership/Gifting Association*

Ater, Hopewell, Rockhold, Seip, Turner: Largely or exclusively one for shell spoons

**Wands, Batons**

*Burial/Ceremonial Deposit Distribution*

Hopewell: Equal for wands, batons  
 Liberty, Seip: Exclusively burial (low N) for wands, batons  
 Turner: Exclusively deposit (low N) for wands, batons  
 Hopewell: Exclusively deposit (low N) for triangular, dark (TD)  
 Hopewell, Liberty: Exclusively burial (low N) for carved femur (FM)  
 Turner: Exclusively deposit (low N) for carved femur (FM)  
 Seip: Exclusively burial (low N) for horned mammal of copper (HM)  
 Hopewell: Exclusively deposit (low N) for human effigy in antler (ANH)  
 Hopewell: Exclusively deposit (low N) for triangular dark and human effigy in antler (A)

*Age Distribution*

Hopewell, Seip: Exclusively adult (low N) for wands, batons  
 Hopewell: Exclusively adult (low N) for femur (FM)  
 Seip: Exclusively adult (low N) for horned mammal (HM)

**Breastplates**

*Burial/Ceremonial Deposit Distribution*

Ater, Hopewell, Liberty, Mound City, N Benton, Rockhold, Seip, Stone, Turner-Marriot: Largely or exclusively burial for breastplates  
 Turner: Equal (low N) for breastplates

*Sex Distribution*

Ater, Hopewell, Turner-Marriot: Largely or exclusively male for breastplates  
 Liberty, Seip, Turner: Equal for breastplates

*Age Distribution*

Ater, Seip: Largely adult for breastplates  
 Bourneville, Hopewell, Liberty, Turner, Turner-Marriot: Exclusively adult for breastplates  
 N Benton: Exclusively child (low N) for breastplates

*Ownership/Gifting Association*

Ater, Bourneville, Hopewell, Liberty, Mound City, N Benton, Rockhold, Seip, Stone, Turner, Turner-Marriot: Largely or exclusively one for breastplates

**Earspools***Burial/Ceremonial Deposit Distribution*

Ater, Esch, Hopewell, Liberty, Martin, Mound City, Seip, Turner, Turner-Marriot: N Benton, Rockhold, Tremper:	Largely or exclusively burial for earspools Equal (low N) for earspools
Ater, Hopewell, Liberty, Martin, Mound City, Rockhold, Seip, Tremper: N Benton: Hopewell, Mound City:	Largely or exclusively burial for copper (CP) Equal (low N) for copper (CP) Exclusively burial (low N) for copper overlaid with silver (CS)
Ater: Esch: Hopewell, Seip: Tremper: Hopewell:	Exclusively burial (low N) for copper overlaid with iron (CI) Exclusively burial (low N) for copper with some silver (SD) Exclusively burial (low N) for stone (N) Exclusively deposit (low N) for stone (N) Exclusively burial (low N) for earspools of copper, silver, and iron (A)
Turner:	Exclusively deposit (low N) for copper and pottery and copper overlaid with silver, and copper overlaid with iron (B)
Ater, Turner, Turner-Marriot:	Exclusively burial (low N) for copper and copper overlaid with iron (C)
Hopewell:	Exclusively deposit (low N) for copper and copper overlaid with iron (C)
Hopewell:	Exclusively deposit (low N) for copper, pottery, copper overlaid with silver, copper overlaid with iron, and stone pulley type (D)
Hopewell:	Exclusively deposit (low N) for copper and stone pulley type (E)

*Sex Distribution*

Ater, Hopewell, Liberty, N Benton:	Largely or exclusively male for earspools
Rockhold: Seip, Turner:	Exclusively female (low N) for earspools Equal for earspools
Ater, Hopewell, Liberty, N Benton: Rockhold: Seip, Turner: Hopewell: Hopewell: Hopewell:	Largely or exclusively male for copper (CP) Exclusively female (low N) for copper (CP) Equal for copper (CP) Exclusively male (low N) for copper overlaid with silver (CS) Exclusively female (low N) for stone (N) Exclusively female (low N) for earspools composed of copper, silver, and iron (A)
Ater:	Exclusively male (low N) for copper and copper overlaid with iron (C)

*Age Distribution*

Ater, Bourneville, Hazlett, Liberty, Marietta, N Benton, Rockhold, Seip, Turner-Marriot, Wright: Esch, Martin: Hopewell, Turner:	Exclusively adult for earspools Exclusively child (low N) for earspools Largely adult for earspools
Ater, Bourneville, Hazlett, Liberty, N Benton, Seip, Rockhold, Wright, Turner: Hopewell: Martin: Hopewell, Marietta: Ater:	Exclusively adult for copper (CP) Largely adult for copper (CP) Exclusively child (low N) for copper (CP) Exclusively adult (low N) for copper overlaid with silver (CS) Exclusively adult (low N) for copper overlaid with iron (CI)



Esch:	Exclusively child (low N) for copper with some silver (SD)
Hopewell, Seip:	Exclusively adult (low N) for stone pulley type (N)
Hopewell:	Exclusively adult (low N) for earspools of copper, silver, and iron (A)
Ater, Turner-Marriot:	Exclusively adult (low N) for copper and copper overlaid with iron (C)

*Ownership/Gifting Association*

Bourneville:	Largely one (low N) for earspools
Ater, Esch, Hazlett, Hopewell, Liberty, Mound City, N Benton, Rockhold, Seip, Turner, Wright:	Largely or exclusively two for earspools
Marietta, Tremper, Turner-Marriot, West:	Exclusively several (low N) for earspools

**Copper Cutouts***Burial/Ceremonial Deposit Distribution*

Hopewell, Mound City, Seip, Turner:	Equal for copper cutouts
Rockhold, Rutledge:	Exclusively burial (low N) for copper cutouts
Hopewell:	Exclusively burial (low N) for ring (RG)
Hopewell:	Exclusively burial (low N) for grid of bosses (GB)
Hopewell:	Exclusively burial (low N) for G-clef form (G)
Hopewell:	Exclusively burial (low N) for disk (DK)
Mound City:	Exclusively deposit (low N) for disk (DK)
Seip:	Equal (low N) for disk (DK)
Rockhold:	Exclusively burial (low N) for crescent shape with arms and hands (HA)
Hopewell:	Exclusively burial (low N) for flying human (FH)
Rutledge:	Exclusively burial (low N) for frog or salamander effigy (FE)
Hopewell:	Exclusively burial (low N) for shield shape (SH)
Hopewell:	Exclusively deposit (low N) for various forms (V)
Mound City:	Exclusively burial (low N) for strips (STR)
Mound City:	Exclusively burial (low N) for star-shaped (ST)
Mound City:	Exclusively deposit (low N) for four armed shapes (AR)
Hopewell:	Exclusively deposit (low N) for multiple forms (A)
Turner:	Exclusively deposit (low N) for rings, flower forms, G-clefs, pear shaped eyes, and grids of holes (B)

*Sex Distribution*

Hopewell, Seip:	Exclusively male (low N) for copper cutouts
Hopewell:	Exclusively male (low N) for G-clef form (G)
Hopewell:	Exclusively male (low N) for flying human (FH)
Hopewell:	Exclusively male (low N) for shield shape (SH)
Seip:	Exclusively male (low N) for disk (DK)

*Age Distribution*

Hopewell:	Exclusively older adult (low N) for copper cutouts
Seip:	Exclusively adult (low N) for copper cutouts
Hopewell:	Exclusively adult (low N) for rings (RG)
Hopewell:	Exclusively adult (low N) for G-clef form (G)
Hopewell, Seip:	Exclusively adult (low N) for disk (DK)
Hopewell:	Exclusively adult (low N) for flying human (FH)
Hopewell:	Exclusively adult (low N) for shield shape (SH)

**Mica Cutouts***Burial/Ceremonial Deposit Distribution*

Ater, Hopewell, Liberty:	Largely or exclusively burial for mica cutouts
Seip:	Equal (low N) for mica cutouts
Turner:	Exclusively deposit (low N) for mica cutouts
Seip:	Exclusively burial (low N) for links (L)

Hopewell:	Exclusively burial (low N) for pear-shaped eyes (P)
Hopewell:	Exclusively burial (low N) for shield shape (SH)
Hopewell:	Exclusively burial (low N) for circles (CR)
Ater, Hopewell:	Exclusively burial (low N) for strips (ST)
Hopewell:	Exclusively deposit (low N) for G-clefs (G)
Hopewell:	Exclusively deposit (low N) for various forms (V)
Liberty:	Exclusively burial (low N) for various forms (V)
Turner:	Exclusively deposit (low N) for rings, circles, ovals, and unknown (A)
Hopewell:	Exclusively deposit (low N) for strips and various forms (B)
Hopewell:	Exclusively burial (low N) for beak-like form and circle (C)

*Sex Distribution*

Ater, Hopewell:	Exclusively male (low N) for mica cutouts
Hopewell:	Exclusively male (low N) for pear-shaped eyes (P)
Hopewell:	Exclusively male (low N) for shield shape (SH)
Hopewell:	Exclusively male (low N) for beak-like form and circle (C)

*Age Distribution*

Ater, Hopewell:	Exclusively adult (low N) for mica cutouts
Seip:	Mixed (low N) for mica cutouts
Seip:	Exclusively adult (low N) for links (L)
Hopewell:	Exclusively adult (low N) for pear shaped eyes (P)
Hopewell:	Exclusively adult (low N) for shield shape (SH)
Hopewell:	Exclusively adult (low N) for circles (CR)
Ater:	Exclusively adult (low N) for strips (ST)
Hopewell:	Exclusively adult (low N) for beak-like forms and circles (C)

**Shell Cutouts***Burial/Ceremonial Deposit Distribution*

Hopewell, Mound City,	
Seip:	Exclusively burial (low N) for shell cutouts
Hopewell, Mound City:	Exclusively burial (low N) for disks (DK)
Seip:	Exclusively deposit (low N) for disks and rectangular (A)

*Sex Distribution*

Hopewell:	Exclusively male (low N) for shell cutouts
Hopewell:	Exclusively male (low N) for disks (DK)

*Age Distribution*

Hopewell, Seip:	Exclusively adult (low N) for shell cutouts
Hopewell:	Exclusively adult (low N) for disks (DK)
Seip:	Exclusively adult (low N) for disks and rectangular (A)

**Crescents***Burial/Ceremonial Deposit Distribution*

Ater, Hopewell, Liberty,	
Seip, Tremper:	Exclusively burial (low N) for crescents
Turner:	Exclusively deposit (low N) for crescents
Hopewell, Seip:	Exclusively burial (low N) for copper (CP)
Turner:	Exclusively deposit (low N) for copper (CP)
Tremper:	Exclusively burial (low N) for mica (MI)

*Sex Distribution*

Ater, Hopewell, Seip:	Exclusively male (low N) for crescents
Ater, Hopewell, Seip:	Exclusively male (low N) for copper (CP)

*Age Distribution*

Ater, Seip:	Exclusively adult (low N) for crescents
Hopewell:	Mixed (low N) for crescents
Ater, Seip:	Exclusively adult (low N) for copper (CP)
Hopewell:	Mixed (low N) for copper (CP)

*Ownership/Gifting Association*

Liberty: Exclusively one for crescents

**Pendants, Gorgets<sup>5</sup>**

*Burial/Ceremonial Deposit Distribution*

Esch, Hopewell, Levina  
 Russel, Martin, Mound  
 City, Seip: Largely or exclusively burial for pendants, gorgets  
 N Benton, Tremper: Exclusively deposit (low N) for pendants, gorgets  
 Hopewell, Mound City: Exclusively burial for pipestone gorgets and reel-shaped gorgets of slate (C)  
  
 Seip: Exclusively burial (low N) for claw shaped gorgets (CL)  
 Hopewell, Mound City,  
 Seip: Largely or exclusively burial (low N) for spoon-shaped of copper (TS)  
  
 Esch: Exclusively burial (low N) for rectangular gorgets of unknown material (RU)  
  
 N Benton: Exclusively deposit (low N) for rectangular gorgets of unknown material (RU)  
  
 Hopewell, Mound City,  
 Hopewell: Exclusively deposit (low N) for bar-shape, stone (B)  
 Seip: Exclusively burial (low N) for bar-shape, stone (B)  
 Hopewell: Exclusively deposit (low N) for bar-shape of unknown material (BU)  
  
 Martin, Mound City: Exclusively burial (low N) for pendant of slate, pendant of stone (A)

*Sex Distribution*

Esch, Seip: Exclusively male (low N) for pendants, gorgets  
 Esch: Exclusively male (low N) for reel-shape of unknown material (RU)

*Age Distribution*

Esch: Largely adult for pendants, gorgets  
 Hopewell, Wright: Exclusively adult (low N) for pendants, gorgets  
 Levina Russel, Martin: Exclusively child (low N) for pendants, gorgets  
 Hopewell: Exclusively adult (low N) for pipestone gorgets and reel-shaped gorgets of slate (C)  
  
 Hopewell: Exclusively adult (low N) for spoon-shaped of copper (TS)  
 Esch: Exclusively adult (low N) for reel-shape of unknown material (RU)  
  
 Hopewell: Exclusively adult (low N) for ovate-shape (O)  
 Martin: Exclusively child (low N) for pendant of slate, pendant of stone (A)

*Ownership/Gifting Association*

Esch, Hopewell, Levina  
 Russel, Martin, Seip,  
 Wright: Largely or exclusively 1–2 pendants, gorgets  
 Mound City: Largely several to many for pendants, gorgets

**Buttons**

*Burial/Ceremonial Deposit Distribution*

Hopewell, Liberty, Mound  
 City, Seip: Largely or exclusively burial for buttons  
 Turner: Exclusively deposit (low N) for buttons  
 Hopewell, Liberty, Mound  
 City, Seip: Largely or exclusively burial for copper (CP)  
 Turner: Exclusively deposit (low N) for copper (CP)  
 Seip: Exclusively burial (low N) for iron (IR)  
 Seip: Exclusively burial (low N) for silver (SI)  
 Hopewell: Exclusively burial (low N) for silver and unknown (A)

*Sex Distribution*

Hopewell, Seip:	Equal (low N) for buttons
Hopewell:	Equal (low N) for copper (CP)
Seip:	Exclusively male (low N) for copper (CP)
Seip:	Exclusively female (low N) for iron (IR)
Seip:	Exclusively female (low N) for silver (SI)

*Age Distribution*

Hopewell, McKenzie:	Exclusively adult for buttons
Hopewell, McKenzie:	Exclusively adult for copper (CP)

**Raptor Power Parts***Burial/Ceremonial Deposit Distribution*

Ater, Hopewell, Mound	
City, Seip:	Exclusively burial (low N) for raptor power parts
Ater:	Exclusively burial (low N) for claws (CL)
Hopewell:	Exclusively burial (low N) for effigy claws of mica (ECM)
Seip:	Exclusively burial (low N) for effigy claws of bone (ECB)
Mound City:	Exclusively burial (low N) for effigy claws of copper (ECC)

*Sex Distribution*

Ater, Hopewell:	Exclusively male (low N) for raptor power parts
Ater:	Exclusively male (low N) for claws (CL)
Hopewell:	Exclusively male (low N) for effigy claws of mica (ECM)

*Age Distribution*

Ater, Hopewell, Seip:	Exclusively adult (low N) for raptor power parts
Ater:	Exclusively adult (low N) for claws (CL)
Hopewell:	Exclusively adult (low N) for effigy claws of mica (ECM)
Seip:	Exclusively adult (low N) for effigy claws of bone (ECB)

**Wolf, Dog Power Parts***Burial/Ceremonial Deposit Distribution*

Ater, Hopewell, Mound	
City, Seip:	Largely or exclusively burial for wolf/dog power parts
Turner:	Equal (low N) for wolf/dog power parts
Ater, Hopewell, Mound	
City, Seip, Turner:	Largely or exclusively burial for jaws (JW)
Hopewell, Mound City:	Exclusively burial (low N) for drilled teeth (TD)
Mound City:	Exclusively burial (low N) for teeth (TE)
Mound City:	Exclusively burial (low N) for claws (CL)

*Sex Distribution*

Ater, Hopewell, Seip:	Exclusively male (low N) for wolf, dog power parts
Ater, Hopewell, Seip:	Exclusively male (low N) for jaws (JW)

*Age Distribution*

Ater, Hazlett, Hopewell,	
Seip:	Exclusively adult (low N) for wolf, dog power parts
Ater, Hazlett, Hopewell,	
Seip:	Exclusively adult (low N) for jaws (JW)
Hopewell:	Exclusively adult (low N) for drilled teeth (TD)

**Big Cat Power Parts***Burial/Ceremonial Deposit Distribution*

Hopewell, Liberty, Mound	
City, Seip:	Largely or exclusively burial for big cat power parts
Tremper, Turner:	Exclusively deposit (low N) for big cat power parts
Hopewell, Liberty, Seip:	Exclusively burial for jaws (JW)
Tremper:	Exclusively deposit (low N) for jaws (JW)
Hopewell:	Exclusively deposit (low N) for teeth (TE)
Liberty:	Exclusively burial (low N) for teeth (TE)

Seip, Turner: Exclusively deposit (low N) for drilled teeth (TD)  
 Mound City: Exclusively burial for effigy tooth of unknown material (ETU)

*Sex Distribution*

Hopewell, Seip: Exclusively male for big cat power parts  
 Hopewell, Seip: Exclusively male for jaws (JW)

*Age Distribution*

Hopewell, Seip: Exclusively adult for big cat power parts; primarily older adult for Hopewell  
 Hopewell, Seip: Exclusively adult for jaws (JW); primarily older adult for Hopewell

**Fox Power Parts**

*Burial/Ceremonial Deposit Distribution*

Hopewell: Exclusively burial (low N) for fox power parts  
 Seip, Turner: Exclusively deposit (low N) for fox power parts  
 Hopewell: Exclusively burial (low N) for jaws (JW)  
 Hopewell: Exclusively burial (low N) for drilled teeth (TD)  
 Seip, Turner: Exclusively deposit (low N) for drilled teeth (TD)

*Sex Distribution*

Hopewell: Exclusively male (low N) for fox power parts  
 Hopewell: Exclusively male (low N) for jaws (JW)

*Age Distribution*

Hopewell: Exclusively adult (low N) for fox power parts  
 Hopewell: Exclusively adult (low N) for jaws (JW)  
 Hopewell: Exclusively adult (low N) for drilled teeth (TD)

**Elk Power Parts**

*Burial/Ceremonial Deposit Distribution*

Ater, Mound City: Largely or exclusively burial (low N) for elk power parts  
 Ater: Exclusively burial (low N) for teeth (TE)  
 Mound City: Equal (low N) for drilled teeth (TD)  
 Mound City: Exclusively burial (low N) for drilled tooth and effigy tooth of unknown material (A)

*Age Distribution*

Ater: Exclusively adult (low N) for elk power parts  
 Ater: Exclusively adult (low N) for teeth (TE)

**Antlers<sup>6</sup>**

*Burial/Ceremonial Deposit Distribution*

Hopewell: Exclusively deposit (low N) for antlers  
 Mound City: Exclusively burial (low N) for antlers  
 Hopewell: Exclusively deposit (low N) for deer (DR)  
 Mound City: Exclusively burial (low N) for deer (DR)  
 Mound City: Exclusively burial (low N) for goat (GT)  
 Mound City, Seip: Exclusively burial (low N) for effigy teeth of copper (ETC)

**Raccoon Power Parts**

*Burial/Ceremonial Deposit Distribution*

Hopewell, Mound City: Exclusively burial (low N) for raccoon power parts  
 Liberty, Turner: Exclusively deposit (low N) for raccoon power parts  
 Seip: Equal (low N) for raccoon power parts  
 Seip: Exclusively burial (low N) for teeth (TE)  
 Hopewell, Mound City: Exclusively burial (low N) for drilled teeth (TD)  
 Liberty, Turner: Exclusively deposit (low N) for drilled teeth (TD)  
 Seip: Exclusively deposit (low N) for drilled teeth and penis bone (A)

*Sex Distribution*

Hopewell: Exclusively female (low N) for raccoon power parts  
 Hopewell: Exclusively female (low N) for drilled teeth (TD)

*Age Distribution*

Hopewell: Exclusively older adult (low N) for raccoon power parts  
 Seip: Exclusively child (low N) for raccoon power parts  
 Seip: Exclusively child (low N) for teeth (TE)  
 Hopewell: Exclusively older adult (low N) for drilled teeth (TD)

**Opossum Power Parts***Burial/Ceremonial Deposit Distribution*

Seip, Turner: Exclusively deposit (low N) for opossum power parts  
 Seip, Turner: Exclusively deposit (low N) for drilled teeth (TD)

**Beaver Power Parts***Burial/Ceremonial Deposit Distribution*

Ater, Esch, Hopewell,  
 Martin, Seip: Exclusively burial (low N) for beaver power parts  
 Seip: Exclusively burial (low N) for jaws (JW)  
 Ater, Esch, Hopewell,  
 Martin: Exclusively burial (low N) for maxillae (MX)

*Sex Distribution*

Ater, Esch, Hopewell: Exclusively male (low N) for beaver power parts  
 Ater, Esch, Hopewell: Exclusively male (low N) for teeth (TE)

*Age Distribution*

Ater, Esch, Hopewell, Seip: Exclusively adult (low N) for beaver power parts; primarily older adults  
 Martin: Exclusively child (low N) for beaver power parts  
 Seip: Exclusively adult (low N) for jaws (JW)  
 Ater, Esch, Hopewell: Exclusively adult (low N) for teeth (TE); All are older adults  
 Martin: Exclusively child (low N) for maxillae (MX)

**Bear Power Parts***Burial/Ceremonial Deposit Distribution*

Ater, Esch, Liberty, Martin,  
 Mound City, Rockhold, Seip,  
 Turner, Turner-Marriot,  
 Tremper: Exclusively deposit (low N) for bear power parts  
 Tremper: Exclusively deposit (low N) for jaws (JW)  
 Turner: Exclusively burial (low N) for jaws (JW)  
 Hopewell, Liberty, Rockhold,  
 Seip, Turner, Turner-Marriot: Exclusively burial for teeth (TE)  
 Hopewell, Liberty, Mound  
 City, Seip, Turner: Exclusively burial (low N) for drilled teeth (TD)  
 Ater, Hopewell, Seip,  
 Turner: Largely or exclusively burial for pearl-set teeth (TP)  
 Ater, Hopewell, Mound  
 City: Largely or exclusively burial (low N) for claws (CL)  
 Seip: Equal (low N) for claws (CL)  
 Hopewell: Exclusively burial (low N) for effigy tooth of mica (ETM)  
 Esch: Exclusively burial (low N) for effigy tooth of bone (ETB)  
 Mound City: Exclusively deposit (low N) for effigy tooth of bone (ETB)  
 Seip: Exclusively burial (low N) for effigy claw of bone (ECB)  
 Hopewell: Exclusively burial (low N) for effigy tooth of copper (ETC)  
 Hopewell: Exclusively burial (low N) for effigy teeth of bone and pearl set teeth (B)  
 Turner: Exclusively deposit (low N) for pearl set teeth, effigy teeth of bone, drilled teeth, and effigy teeth of shell (C)

Hopewell:	Exclusively deposit (low N) for claws and effigy teeth of unknown material (D)
Hopewell:	Exclusively deposit (low N) for claws and jaws (E)
Hopewell:	Exclusively burial (low N) for jaws, claws, teeth and pearl set teeth (F)
Hopewell:	Exclusively burial (low N) for effigy teeth of antler, teeth, and pearl set teeth (G)
Hopewell:	Exclusively deposit (low N) for claws, teeth, and effigy teeth of shell (H)
Hopewell, Turner-Marriot, Turner:	Exclusively burial (low N) for pearl set teeth and teeth (I)
Ater, Hopewell:	Exclusively burial (low N) for drilled teeth and pearl set teeth (J)
Seip:	Exclusively deposit (low N) for drilled teeth and pearl set teeth (J)
Hopewell:	Exclusively deposit (low N) for effigy teeth of stone, claws, and drilled teeth (K)
Hopewell:	Exclusively deposit (low N) for effigy paws and teeth of copper (L)
Mound City:	Exclusively burial (low N) for effigy teeth of unknown material and drilled teeth (N)
Martin:	Exclusively burial (low N) for drilled teeth and effigy teeth of bone (P)

*Sex Distribution*

Ater, Esch, Hopewell, Seip, Turner-Marriot:	Exclusively male for bear power parts
Turner:	Equal (low N) for bear power parts
Hopewell, Seip:	Exclusively male (low N) for drilled tooth (TD)
Turner:	Exclusively female (low N) for drilled tooth (TD)
Ater, Hopewell, Seip:	Exclusively male (low N) for pearl-set tooth (TP)
Esch:	Exclusively male (low N) for effigy tooth of bone (ETB)
Hopewell:	Exclusively male (low N) for effigy teeth of bone and pearl set teeth (B)
Hopewell, Turner, Turner-Marriot:	Exclusively male (low N) for pearl teeth and teeth (I)
Ater, Hopewell:	Exclusively male (low N) for drilled teeth and pearl set teeth (J)

*Age Distribution*

Ater, Bourneville, Esch, Turner, Turner-Marriot:	Exclusively adult for bear power parts
Hopewell:	Exclusively older adult for bear power parts
Seip:	Largely adult for bear power parts
Martin:	Exclusively child (low N) for bear power parts
Turner:	Exclusively adult (low N) for jaws (JW)
Hopewell, Seip, Turner, Turner-Marriot:	Exclusively adult (low N) for teeth (TE)
Bourneville, Hopewell, Seip, Turner:	Exclusively adult (low N) for drilled teeth (TD)
Bourneville, Hopewell, Turner:	Exclusively adult (low N) for pearl-set tooth (TP)
Seip:	Mixed (low N) for pearl-set tooth (TP)
Ater, Hopewell, Seip:	Exclusively adult (low N) for claws (CL)
Hopewell:	Exclusively adult (low N) for effigy teeth of mica (ETM)
Esch:	Exclusively adult (low N) for effigy tooth of bone (ETB)
Seip:	Exclusively adult (low N) for effigy claw of bone (ECB)
Hopewell:	Exclusively adult (low N) for effigy tooth of copper (ETC)
Hopewell:	Exclusively adult (low N) for effigy teeth bone and pearl set teeth (B)



Hopewell:	Exclusively adult (low N) for jaws, claws, teeth, and pearl set teeth (F)
Hopewell:	Exclusively adult (low N) for effigy teeth of antler, teeth, and pearl set teeth (G)
Hopewell:	Exclusively older adult (low N) for pearl set teeth and teeth (I)
Turner, Turner-Marriot:	Exclusively adult (low N) for pearl set teeth and teeth (I)
Ater, Hopewell:	Exclusively adult (low N) for drilled teeth and pearl set teeth (J)
Martin:	Exclusively child (low N) for drilled teeth and effigy teeth of bone (P)

*Ownership/Gifting Association*

Bourneville, Hopewell, Seip:	Largely or exclusively four for bear canines
Ater:	Exclusively three or four (low N) for bear canines
Turner, Turner-Marriot:	Exclusively several to many for bear canines
Liberty:	Exclusively one or ten (low N) for bear canines
Martin:	Exclusively eight (low N) for bear canines
Mound City:	Exclusively two or five (low N) for bear canines

**Species Number***Ownership/Gifting Association*

Hazlett, Hopewell, Liberty Mound City, Rockhold, Seip, Turner:	Largely or exclusively one species number (50/67 are one)
Esch:	Exclusively two (low N) for species number
Ater:	Exclusively one or four (low N) for species number

**Beads***Burial/Ceremonial Deposit Distribution*

Ater, Esch, Hopewell, Kohl, Liberty, Martin, Mound City, Rockhold, Rutledge, Seip, Turner:	Largely or exclusively burial for beads Equal (low N) for beads
Esch, Hopewell, Kohl, Martin, Mound City, Seip, Turner:	Exclusively burial (low N) for copper (CP) Exclusively burial (low N) for iron (IR)
Seip: Esch, Hopewell, Liberty, Rockhold, Seip, Turner, Turner-Marriot:	Largely or exclusively burial for pearl (PE)
Ater, Hopewell, Mound City, Rutledge, Seip, Turner:	Largely or exclusively burial for shell (SH) Equal (low N) for shell (SH)
Liberty: Hopewell, Mound City, Rockhold, Rutledge, Seip: Turner:	Largely or exclusively burial for pearl and shell (PS) Exclusively deposit (low N) for copper, iron, pearl, shell, and wood (A)
Seip:	Exclusively deposit (low N) for stone, shell, copper, and pearl (B)
Martin:	Exclusively burial (low N) for bone and copper (C)
Turner:	Exclusively deposit (low N) for bone and copper (C)
Hopewell:	Exclusively burial for bone and pearl (D)
Hopewell:	Exclusively deposit (low N) for pearl, shell, iron, and bone (E)
Hopewell:	Exclusively deposit (low N) for iron, bone, pearl, copper, silver, and shell (F)
Turner:	Exclusively deposit (low N) for pearl and copper (G)
Turner-Marriot:	Exclusively deposit (low N) for clay and shell (H)
Mound City:	Exclusively deposit (low N) for pearl, shell and galena (I)
Mound City:	Exclusively deposit (low N) for pearl and shell and bone (J)
Hopewell:	Equal (low N) for shell and bone (K)

*Sex Distribution*

Ater, Hopewell, Martin:	Largely or exclusively male for beads
Rockhold, Rutledge, Seip:	Largely or exclusively female for beads
Turner:	Equal (low N) for beads
Martin:	Exclusively male (low N) for copper (CP)
Seip:	Exclusively female (low N) for iron (IR)
Hopewell:	Largely male for pearl (PE)
Rockhold, Seip:	Largely or exclusively female for pearl (PE)
Ater, Hopewell:	Largely or exclusively male for shell (SH)
Rutledge:	Exclusively female (low N) for shell (SH)
Turner:	Equal (low N) for shell (SH)
Seip:	Exclusively male (low N) for bone (BN)
Hopewell:	Largely male for pearl and shell (PS)

*Age Distribution*

Hopewell, Seip, Turner:	Largely adult for beads
Bourneville, Kohl, McKenzie, Rockhold,	
Rutledge, Turner-Marriot:	Exclusively adult (low N) for beads
Ater, Esch, Martin:	Mixed (low N) for beads
Esch:	Mixed (low N) for copper (CP)
Hopewell, Kohl, Martin, Seip, Turner:	Exclusively adult (low N) for copper (CP)
Seip:	Exclusively adult (low N) for iron (IR)
Bourneville, Hopewell, Rockhold, Turner, Turner-Marriot:	Exclusively adult for pearl (PE)
Esch:	Exclusively child (low N) for pearl (PE)
Seip:	Largely adult for pearl (PE)
Ater:	Mixed (low N) for shell (SH)
Hopewell, Rutledge, Seip, Turner:	Exclusively adult for shell (SH)
McKenzie, Seip:	Exclusively adult (low N) for bone (BN)
Hopewell:	Exclusively adult for pearl and shell (PS)
Seip:	Mixed (low N) for pearl and shell (PS)
Martin:	Exclusively child (low N) for bone and copper (C)
Hopewell:	Exclusively adult (low N) for bone and pearl (D)
Hopewell:	Exclusively adult (low N) for pearl, shell, iron, and bone (E)
Hopewell:	Exclusively adult (low N) for shell and bone (K)

**Bead Necklaces**

*Burial/Ceremonial Deposit Distribution*

Ater, Hopewell, Martin, Mound City:	Exclusively burial for bead necklaces
Ater, Hopewell, Martin, Mound City:	Exclusively burial (low N) for pearl (PE)
Mound City:	Exclusively burial for shell (SH)
Mound City:	Exclusively burial (low N) for bone (BN)
Hopewell, Mound City:	Exclusively burial (low N) for pearl and shell (A)
Ater, Mound City:	Exclusively burial (low N) for copper and pearl (B)
Mound City:	

*Sex Distribution*

Ater:	Equal (low N) for bead necklaces
Hopewell, Martin:	Exclusively male (low N) for bead necklaces
Ater:	Exclusively female (low N) for pearl (PE)
Hopewell, Martin:	Exclusively male (low N) for pearl (PE)
Ater:	Exclusively male (low N) for pearl and shell (A)

*Age Distribution*

Ater, Hazlett, Hopewell, Martin:	Exclusively adult for bead necklaces
Ater, Hopewell, Martin:	Exclusively adult (low N) for pearl (PE)

Hazlett:	Exclusively adult (low N) for shell (SH)
Hopewell:	Exclusively adult (low N) for bone (BN)
Ater:	Exclusively adult (low N) for pearl and shell (A)

**Bracelets, Anklets***Burial/Ceremonial Deposit Distribution*

Ater, Hopewell, Seip:	Largely or exclusively burial for bracelets, anklets
Rutledge, Turner:	Equal (low N) for bracelets, anklets
Hopewell, Rutledge:	Largely or exclusively burial for copper (CP)
Turner:	Exclusively deposit (low N) for copper (CP)
Ater, Hopewell, Seip:	Exclusively burial (low N) for pearl (PE)
Turner:	Exclusively burial (low N) for shell (SH)
Turner:	Exclusively deposit (low N) for copper and silver (A)
Ater:	Exclusively burial (low N) for copper and pearl (B)

*Sex Distribution*

Ater:	Equal (low N) for bracelets, anklets
Hopewell, Seip:	Exclusively female (low N) for bracelets, anklets
Hopewell:	Exclusively female (low N) for copper (CP)
Ater:	Equal (low N) for pearl (PE)
Seip:	Exclusively female (low N) for pearl (PE)
Ater:	Exclusively male (low N) for copper and pearl (B)

*Age Distribution*

Ater, McKenzie, Seip, Turner:	Exclusively adult (low N) for bracelets, anklets
Hopewell:	Largely adult (low N) for bracelets, anklets
Hopewell:	Mixed (low N) for copper (CP)
McKenzie:	Exclusively adult (low N) for copper (CP)
Ater, Hopewell, Seip:	Exclusively adult (low N) for pearl (PE)
Turner:	Exclusively adult (low N) for shell (SH)
Ater:	Exclusively adult (low N) for copper and pearl (B)

**Bead Strings***Burial/Ceremonial Deposit Distribution*

Hopewell, Liberty, Seip:	Largely or exclusively burial for bead strings
Hopewell:	Largely burial (low N) for bone (BN)
Hopewell, Seip:	Exclusively burial (low N) for pearl (PE)

*Age Distribution*

Hopewell, Seip, West:	Exclusively adult (low N) for bead strings
Hopewell:	Exclusively adult (low N) for bone (BN)
Hopewell:	Exclusively adult (low N) for pearl (PE)
West:	Exclusively adult (low N) for shell (SH)

**Hair Skewers***Burial/Ceremonial Deposit Distribution*

Hopewell:	Exclusively older adult (low N) for hair skewers
-----------	--

*Sex Distribution*

Hopewell:	Equal (low N) for hair skewers
Seip:	Exclusively female (low N) for hair skewers

*Ownership/Gifting Association*

Hopewell, Seip:	Exclusively two (low N) for hair skewers
-----------------	--

**Containers***Burial/Ceremonial Deposit Distribution*

Ater, Esch, Hopeton, Mound City, Seip, Turner:	Largely or exclusively burial for containers
Ginther, Liberty:	Largely or exclusively deposit for containers
Hopewell, Martin, Turner-Marriot:	Equal for containers

*Sex Distribution*

Ater, Hopeton, Seip:	Exclusively female (low N) for containers
Martin, Turner-Marriot:	Exclusively male (low N) for containers
Turner:	Equal (low N) for containers

*Age Distribution*

Ater, Bourneville, Hopewell, Hopeton, Turner-Marriot:	Exclusively adult (low N) for containers
Martin:	Mixed for containers
Esch, Turner:	Largely adult for containers

*Ownership/Gifting Association*

Hopeton, Mound City, Snake Den:	Exclusively one (low N) for containers
Turner-Marriot:	Exclusively three (low N) for containers

**Needle, Bodkin***Burial/Ceremonial Deposit Distribution*

Ater, Hopeton, Hopewell, Liberty, Mound City, Seip, Turner:	Largely or exclusively burial for needles, bodkins
---	--

*Sex Distribution*

Ater, Hopewell, Turner:	Exclusively male (low N) for needle, bodkin
Hopeton:	Exclusively female (low N) for needle, bodkin

*Age Distribution*

Ater, Hopeton, Hopewell:	Exclusively adult (low N) for needle, bodkin
Turner:	Mixed (low N) for needle, bodkin

*Ownership/Gifting Association*

Ater, Hopeton, Mound City, Seip:	Exclusively or largely 1–2 (low N) for needles, bodkins
Hopewell, Turner:	Exclusively or largely several (low N) for needles, bodkins
Liberty:	Exclusively many (low N) for needles, bodkins

**Bone, Antler Points and Knives***Burial/Ceremonial Deposit Distribution*

Esch, Hopewell, Mound City, Turner:	Exclusively burial (low N) for bone/antler points or knives
--	---

*Sex Distribution*

Circleville, Hopewell:	Exclusively adult (low N) for bone/antler points or knives
------------------------	--

*Age Distribution*

Esch, Hopewell, Turner:	Exclusively male (low N) for bone/antler points or knives
-------------------------	---

*Ownership/Gifting Association*

Esch, Hopewell:	Exclusively several (low N) for bone/antler points or knives
Mound City, Turner:	Exclusively one (low N) for bone/antler points or knives

**Copper Rods***Burial/Ceremonial Deposit Distribution*

Esch, Seip:	Exclusively burial (low N) for copper rods
-------------	--

*Sex Distribution*

Esch:	Exclusively male (low N) for copper rods
-------	--

*Age Distribution*

Esch:	Exclusively adult (low N) for copper rods
-------	---

*Ownership/Gifting Association*

Esch, Seip:	Exclusively one (low N) for copper rods
-------------	---

**Other Flint Bifaces***Burial/Ceremonial Deposit Distribution*

Ater, Esch, Mound City, Rockhold, Seip, Turner-Marriot, Wells: Ginther, Martin, McKenzie Area, N Benton:	Exclusively burial for other flint bifaces
Hopewell, Tremper, Turner: Ater, Hopewell, Mound City, Rockhold, Seip, Tremper, Turner, Turner-Marriot, Wells:	Exclusively deposit (low N) for other flint bifaces Equal for other flint bifaces
Ginther, Martin, N Benton: Hopewell: Mound City: Turner: Mound City: Hopewell: Seip, Tremper: Hopewell, Tremper:	Largely or exclusively burial for points/knives (PK) Exclusively deposit (low N) for points/knives (PK) Exclusively burial (low N) for points/knives (PK) Exclusively burial (low N) for points/knives (PK) Exclusively deposit (low N) for points/knives (PK) Exclusively burial (low N) for unknown bifaces (UB) Exclusively deposit (low N) for symmetrical bifaces (SB) Exclusively burial (low N) for odd bifaces (OB) Exclusively deposit (low N) for points/knives and unknown bifaces (C)

*Sex Distribution*

Esch, Hopewell, Seip, Turner, Turner-Marriot, Esch, Hopewell, Seip, Turner, Turner-Marriot:	Exclusively male (low N) for points/knives (PK)
--	---

*Age Distribution*

Ater, Esch, Hopewell, McKenzie, Seip, Turner, Turner-Marriot: Ater, Esch, Hopewell, McKenzie, Seip, Turner, Turner-Marriot: McKenzie: Hopewell:	Exclusively adult for flint bifaces  Exclusively adult for points/knives (PK) Exclusively adult (low N) for unknown bifaces (UB) Exclusively adult (low N) for points/knives and unknown bifaces (C)
--	--

*Ownership/Gifting Association*

Ater, Esch, McKenzie, Mound City, Rockhold, Seip, Tremper, Turner, Turner-Marriot, Wells: Hopewell: Circleville: Ater, Esch, McKenzie, Mound City, Rockhold, Seip, Tremper, Turner, Turner-Marriot, Wells: Hopewell: Circleville: Circleville: Circleville: McKenzie: Mound City: Seip, Tremper:	Largely or exclusively 1–3 for other flint bifaces Exclusively one or several (low N) for other flint bifaces Exclusively several (low N) for other flint bifaces  Largely or exclusively 1–3 for points/knives (PK) Exclusively one or several (low N) for points/knives (PK) Exclusively several (low N) for points/knives (PK) Exclusively several (low N) for unknown bifaces (UB) Exclusively 20 (low N) for unknown bifaces (UB) Exclusively one (low N) for unknown bifaces (UB) Exclusively one (low N) for odd bifaces (OB)
--	--

**Other Flint Prismatic Blades***Burial/Ceremonial Deposit Distribution*

Ater, Hopewell, Liberty, Mound City, Seip, Turner:	Largely or exclusively burial for other flint prismatic blades
---	--

Ginther, Tremper:	Exclusively deposit (low N) for other flint prismatic blades
N Benton:	Equal (low N) for other flint prismatic blades
<i>Sex Distribution</i>	
Ater:	Exclusively male (low N) for other flint prismatic blades
Hopewell:	Largely female (low N) for other flint prismatic blades
Turner:	Equal (low N) for other flint prismatic blades
<i>Age Distribution</i>	
Ater, Hopewell, Liberty, N Benton, Seip, Shilder:	Exclusively adult for other flint prismatic blades
Turner:	Largely adult for other flint prismatic blades
<i>Ownership/Gifting Association</i>	
Ater, Hopewell, N Benton, Shilder, Turner:	Largely or exclusively 1–3 for other flint prismatic blades
Liberty, Seip:	Largely several to many for other flint prismatic blades
Mound City:	Equally two or several (low N) for other flint prismatic blades
<b>Miscellaneous Iron Tools</b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Hopewell:	Exclusively deposit (low N) for miscellaneous iron tools
Seip:	Exclusively burial (low N) for miscellaneous iron tools
Hopewell:	Exclusively deposit (low N) for perforator (PF)
Seip:	Exclusively burial (low N) for drill (DR)
Hopewell:	Exclusively deposit (low N) for drill (DR)
<b>Miscellaneous Copper Tools</b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Hopewell:	Exclusively deposit (low N) for miscellaneous copper tools
Mound City:	Largely burial (low N) for miscellaneous copper tools
Hopewell:	Exclusively deposit (low N) for perforator (PF)
Hopewell:	Exclusively deposit (low N) for awl (AW)
Mound City:	Exclusively burial (low N) for awl (AW)
Mound City:	Exclusively deposit (low N) for chisel (CH)
<b>Raw Shell<sup>7</sup></b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Ginther, Mound City, Turner, Turner-Marriot:	Exclusively deposit (low N) for raw shell
Hopewell, Liberty:	Exclusively burial (low N) for raw shell
Hopewell, Liberty:	Exclusively burial (low N) for little (LT)
Mound City:	Exclusively deposit (low N) for little (LT)
Turner-Marriot:	Exclusively deposit (low N) for large amount (LG)
Turner:	Exclusively deposit (low N) for thousands (TH)
<i>Age Distribution</i>	
Hopewell:	Exclusively adult (low N) for raw shell
Hopewell:	Exclusively adult (low N) for light (L)
<b>Raw Obsidian<sup>8</sup></b>	
<i>Age Distribution</i>	
Hopewell:	Exclusively adult (low N) for raw obsidian
Hopewell:	Exclusively adult (low N) for large amount (LG)
<b>Raw Cannel Coal</b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Turner:	Exclusively deposit (low N) for raw cannel coal
Turner:	Exclusively deposit (low N) for large amount (LG)
<b>Raw Copper</b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Hopewell, Mound City:	Equal (low N) for raw copper
Turner:	Exclusively deposit (low N) for raw copper

Hopewell:	Equal (low N) for little (LT)
Mound City:	Exclusively deposit (low N) for little (LT)
Hopewell, Mound City:	Exclusively burial (low N) for large amount (LG)
Turner:	Exclusively deposit (low N) for large amount (LG)
<i>Age Distribution</i>	
Hopewell:	Exclusively adult (low N) for raw copper
Hopewell:	Exclusively adult (low N) for light (L)
Hopewell:	Exclusively adult (low N) for large amount (LG)
<b>Raw Flint</b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Ater, Hopewell:	Exclusively burial for raw flint
Ginther:	Exclusively deposit (low N) for raw flint
Ater:	Exclusively burial for little (LT)
Hopewell:	Exclusively burial for large amount (LG)
<i>Age Distribution</i>	
Ater, Hopewell, Seip:	Exclusively adult (low N) for raw flint
Ater, Seip:	Exclusively adult (low N) for light (L)
Hopewell:	Exclusively adult (low N) for large amount (LG)
<b>Raw Galena</b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Ater, Liberty, Rockhold, Seip, Turner:	Exclusively burial (low N) for raw galena
Hopewell, Mound City:	Equal (low N) for raw galena
N Benton, Tremper: Hopewell, Rockhold, Turner:	Exclusively deposit (low N) for raw galena
N Benton:	Exclusively burial (low N) for little (LT)
Ater, Liberty, Seip, Turner:	Exclusively deposit (low N) for little (LT)
Hopewell, Tremper:	Exclusively burial (low N) for large amount (LG)
	Exclusively deposit (low N) for large amount (LG)
Mound City:	Equal (low N) for large amount (LG)
<i>Sex Distribution</i>	
Rockhold:	Exclusively female (low N) for raw galena
Rockhold:	Exclusively female (low N) for little (LT)
<i>Age Distribution</i>	
Ater, Bourneville, Hopewell, Rockhold, Seip, Turner:	Exclusively adult (low N) for raw galena
Bourneville, Hopewell, Rockhold, Turner:	Exclusively adult (low N) for little (LT)
Ater, Seip, Turner:	Exclusively adult (low N) for large amount (LG)
<b>Raw Gold</b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Turner:	Exclusively deposit (low N) for raw gold
Turner:	Exclusively deposit (low N) for large amount (LG)
<b>Raw Graphite</b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Hopewell:	Exclusively deposit (low N) for raw graphite
Hopewell:	Exclusively deposit (low N) for large amount (LG)
<i>Age Distribution</i>	
Snake Den:	Exclusively child (low N) for raw graphite
Snake Den:	Exclusively child (low N) for little (LT)



**Raw Hematite***Burial/Ceremonial Deposit Distribution*

Hopewell:	Exclusively deposit (low N) for raw hematite
Kohl:	Exclusively burial (low N) for raw hematite
Hopewell:	Exclusively deposit (low N) for large amount (LG)
Kohl:	Exclusively burial (low N) for little (LT)

*Age Distribution*

Kohl:	Exclusively adult (low N) for raw hematite
Kohl:	Exclusively adult (low N) for little (LT)

**Raw Iron***Burial/Ceremonial Deposit Distribution*

Hopewell:	Exclusively burial (low N) for raw iron
Turner:	Exclusively deposit (low N) for raw iron
Hopewell:	Exclusively burial (low N) for little (LT)
Turner:	Exclusively deposit (low N) for large amount (LG)

*Age Distribution*

Hopewell, Marietta:	Exclusively adult (low N) for raw iron
Hopewell, Marietta:	Exclusively adult (low N) for little (LT)

**Raw Mica<sup>9</sup>***Burial/Ceremonial Deposit Distribution*

Ater, Esch, Hopeton, Hopewell, Liberty, Martin:	Largely or exclusively burial (low N) for raw mica
Ginther, Turner-Marriot:	Exclusively deposit (low N) for raw mica
Mound City, Turner:	Equal (low N) for raw mica
Ater, Esch, Hopeton, Liberty, Martin:	Exclusively burial (low N) for little (LT)
Ginther, Turner-Marriot:	Exclusively deposit (low N) for little (LT)
Hopewell, Turner:	Equal (low N) for little (LT)
Mound City:	Exclusively burial (low N) for large amount (LG)

*Sex Distribution*

Ater, Martin:	Exclusively male (low N) for raw mica
Ater, Martin:	Exclusively male (low N) for little (LT)

*Age Distribution*

Ater, Hopewell, Turner:	Exclusively adult (low N) for raw mica
Esch, Martin:	Mixed (low N) for raw mica
Ater, Hopewell, Turner:	Exclusively adult (low N) for little (LT)
Esch, Martin:	Mixed (low N) for little (LT)

**Mica Scrap***Burial/Ceremonial Deposit Distribution*

Ater, Esch, Liberty, Mound City:	Exclusively burial (low N) for mica scrap
Ginther:	Exclusively deposit (low N) for mica scrap
Ater, Esch, Liberty:	Exclusively burial (low N) for cut fragments (FC)
Ginther:	Exclusively deposit (low N) for broken fragments (FB)

*Age Distribution*

Ater, Esch, Shilder:	Exclusively adult (low N) for mica scrap
Ater, Esch:	Exclusively adult (low N) for cut fragments (FC)
Shilder:	Exclusively adult (low N) for broken fragments (FB)

**Raw Pearls***Burial/Ceremonial Deposit Distribution*

Hopewell, Turner:	Equal (low N) for raw pearls
Seip:	Exclusively burial (low N) for raw pearls

<i>Sex Distribution</i>	
Seip:	Equal (low N) for raw pearls
<i>Age Distribution</i>	
Hopewell, Seip, Turner:	Exclusively adult (low N) for raw pearls
<i>Ownership/Gifting Association</i>	
Hopewell, Turner:	Exclusively several (low N) for raw pearls
Seip:	Exclusively nine or hundreds (low N) for raw pearls
<b>Raw Pyrite</b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Hopewell:	Exclusively deposit (low N) for raw pyrite
Hopewell:	Exclusively deposit (low N) for little (LT)
<b>Raw Silver</b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Hopewell:	Equal (low N) for raw silver
Hopewell:	Equal (low N) for little (LT)
<i>Age Distribution</i>	
Hopewell:	Exclusively adult (low N) for raw silver
Hopewell:	Exclusively adult (low N) for little (LT)
<b>Raw Tortoise Shell</b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Ater, Esch, Seip:	Exclusively burial (low N) for raw tortoise shell
Ater, Esch, Seip:	Exclusively burial (low N) for little (LT)
<i>Sex Distribution</i>	
Ater:	Exclusively male (low N) for raw tortoise shell
Seip:	Exclusively female (low N) for raw tortoise shell
Ater:	Exclusively male (low N) for little (LT)
Seip:	Exclusively female (low N) for little (LT)
<i>Age Distribution</i>	
Ater, Seip:	Exclusively adult (low N) for raw tortoise shell
Esch:	Exclusively child (low N) for raw tortoise shell
Ater, Seip:	Exclusively adult (low N) for little (LT)
Esch:	Exclusively child (low N) for little (LT)
<b>Raw Quartz<sup>10</sup></b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Ginther, Mound City:	Exclusively deposit (low N) for raw quartz
Hopewell:	Equal (low N) for raw quartz
<i>Ownership/Gifting Association</i>	
Hopewell:	Exclusively several (low N) for raw quartz
Snake Den:	Exclusively one (low N) for raw quartz
<b>Worked Quartz<sup>11</sup></b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Hopewell:	Exclusively deposit (low N) for worked quartz
<b>Reel Gorgets<sup>12</sup></b>	
<i>Burial/Ceremonial Deposit Distribution</i>	
Hopewell, Tremper, Turner:	Exclusively deposit (low N) for reel gorgets
Turner:	Exclusively deposit (low N) for stone (ST)
Hopewell:	Exclusively deposit (low N) for shell (SH)
Tremper:	Exclusively deposit (low N) for copper and shell (A)
<i>Age Distribution</i>	
Hazlett:	Exclusively adult (low N) for reel gorget
Hazlett:	Exclusively adult (low N) for copper (CP)

**NOTE**

1. The one major exception to this pattern is at the early Scioto Hopewell site of Mound City, where eleven individuals in three mounds were buried with obsidian and/or quartz bifaces.
2. Aside from involving fewer variables, observations, and sites, the older version of the HOPEBIOARCH data base analyzed here differs from the current version in some other ways. Six of the variables in the older version were subdivided, or were combined, or were split and their different parts joined with different variables, compared to those in the current HOPEBIOARCH data base. One variable in the old data base was heavily reworked for its variable states when creating the new data base. Three of the variables were renamed. The variables in the current HOPEBIOARCH data base that resulted from these alterations are discussed in subsequent Notes 3–12. In addition, a few variables in the old data base were reworked in minor ways for their variable states when developing the new data base. Their new variable states are not considered here. Further, since the time of analysis of the old data base, some of the published and unpublished documents on its sites have been resurveyed and some new documents have been examined, resulting in some additions and modifications to entries in the variables in the old data base, and the addition of a few more burials or ceremonial deposits to a few sites. These additions and modifications are not reflected in the study reported here.
3. Variable: Water. For this variable, the current version of the HOPEBIOARCH data base includes an additional variable state (PLT: possible water barrier of light stone) that was not coded in the old version of the data base. The consequence of this change is a considerable increase in the number of proveniences with entries (see Water, Chapter 8).
4. Variable: Animal Carvings. This old variable is called AnimImage in the current HOPEBIOARCH data base. The new variable has a broader definition than the old one. It includes various forms of animal cutouts in addition to figurines and carvings that depict animals (see Chapter 8, AnimImage).
5. Variable: Pendants/Gorgetts. The variable states of this variable were substantially changed when developing the current version of the HOPEBIOARCH data base. Many new states were added, and some older states were subdivided (see Chapter 8, Pendant/Gorget). However, the distributions of the old variable states provide insights into the distributions of pendants and gorgets generally, and are relevant in a number of instances where an old state matches a new one.
6. Variable: Antlers. This old variable was removed from the current version of the HOPEBIOARCH data base and its constituent elements were distributed among the new variables, DeerPP and GoatHorn.
7. Variable: Raw Shell. This old variable was renamed MiscShellObj in the current version of the HOPEBIOARCH data base and now includes a number of items in addition to unworked shells (see Chapter 8, MiscShellObj).
8. Variable: Raw Obsidian. This old variable was renamed MiscObsid in the current version of the HOPEBIOARCH data base and now includes some items in addition to unworked obsidian (see Chapter 8, MiscObsid.)
9. Variable: Raw Mica. This old variable has been renamed MicaScrap in the current version of the HOPEBIOARCH data base. Its variable states are the same as those of MicaRaw – light and heavy/large amounts of mica fragments, bits, and flakes.
10. Variable: Raw Quartz. This old variable was renamed QuartzCryst in the current version of the HOPEBIOARCH data base.
11. Variable: Worked Quartz. This old variable was renamed QuartzScrap in the current version of the HOPEBIOARCH data base.
12. Variable: Reel Gorgets. This old variable was relocated as a variable state under the Pendant/Gorget variable in the current version of the HOPEBIOARCH data base.

# *The Scioto Hopewell* *and Their Neighbors*

**Bioarchaeological Documentation and Cultural Understanding**

**D. TROY CASE**

*North Carolina State University,  
Raleigh, North Carolina*

**and**

**CHRISTOPHER CARR**

*Arizona State University,  
Tempe, AZ, USA*

with contributions by

Cheryl A. Johnston, Beau Goldstein, Rex Weeks, Mark Bahti,  
Rebekah A. Zinser, and Ashley E. Evans

 Springer

D. Troy Case  
North Carolina State University  
Raleigh, North Carolina  
USA  
dtcase@chass.ncsu.edu

Christopher Carr  
Arizona State University  
Tempe, AZ  
USA  
christopher.carr@asu.edu

Additional material to this book can be downloaded from <http://extras.springer.com>.

ISBN: 978-0-387-77386-5 (hardcover)                      e-ISBN: 978-0-387-77387-2  
ISBN: 978-1-4419-6507-3 (softcover)

Library of Congress Control Number: 2008927598

© Springer Science+Business Media, LLC 2008, First softcover printing 2011

All rights reserved. This work may not be translated or copied in whole or in part without the written permission of the publisher (Springer Science+Business Media, LLC, 233 Spring Street, New York, NY 10013, USA), except for brief excerpts in connection with reviews or scholarly analysis. Use in connection with any form of information storage and retrieval, electronic adaptation, computer software, or by similar or dissimilar methodology now known or hereafter developed is forbidden.

The use in this publication of trade names, trademarks, service marks, and similar terms, even if they are not identified as such, is not to be taken as an expression of opinion as to whether or not they are subject to proprietary rights.

*Cover Design Acknowledgment:* Digital painting, “On the Way”, by Christopher Carr, based on portraits of three ceremonial leaders rendered on three copper celts by anonymous Ohio Hopewell artists, compositions of processions of persons rendered on copper breastplates by anonymous Ohio Hopewell artists, and an early photograph of a virgin hardwood forest in the Allegheny Plateau province of Ohio. The three celts bearing the portraits of leaders, from left to right, are: Carr no. C023 Side A, from the Hopewell earthwork, possibly Mound 25, Skeletons 260–261, curated at the Ohio Historical Society, cat. no. 283/351B; Carr no. C301 Side A, from the Edwards Mound Group, 33HA7, curated at the Harvard Peabody Museum, cat. no. 84-6-10/32346; and Carr no. C011 Side A, from the Seip earthwork, curated at the Ohio Historical Society, cat. no. 957/-. Example depictions of processions of ceremonial leaders are found on breastplates Carr B061 Side B, from the Liberty earthwork, curated at the Ohio Historical Society, cat. nos. 7/1.007 and 13716; and Carr B025 Side A, from the Hopewell earthwork, Mound 25, Burial 6, curated at the Ohio Historical Society, cat. no. 283/83C. The portraits and processions were revealed by color and near-infrared digital photography, hybrid color-near-infrared image display, and image contrast enhancement. The full forest photograph is published by Gordon (1969:Frontispiece). Top and bottom border designs are, respectively, a snake-skin design incised on the top of a pottery vessel and a rocker-stamped bird feather design placed on the body of the same vessel, from the Hopewell earthwork, Mound 25, Altar 1 (Moorehead 1922:171, Figure 70). Cover layout by Christopher Carr and Deann Gates.

Printed on acid-free paper

9 8 7 6 5 4 3 2 1

springer.com

# *Contents*

## **I. RATIONALE AND FRAMEWORK**

- 1. Documenting the Lives of Ohio Hopewell People:  
A Philosophical and Empirical Foundation..... 3**  
*Christopher Carr and D. Troy Case*

## **II. THE SCIOTO HOPEWELL: LAND, PEOPLE, CULTURE, AND HISTORY**

- 2. Environmental Setting, Natural Symbols, and Subsistence..... 41**  
*Christopher Carr*
- 3. Settlement and Communities ..... 101**  
*Christopher Carr*
- 4. Social and Ritual Organization ..... 151**  
*Christopher Carr*
- 5. World View and the Dynamics of Change:  
The Beginning and the End of Scioto Hopewell Culture and Lifeways ... 289**  
*Christopher Carr*

## **III. INVENTORY AND DOCUMENTATION**

- 6. Documenting the Ohio Hopewell Mortuary Record:  
The Bioarchaeological Data Base ..... 335**  
*D. Troy Case and Christopher Carr*
- 7. Ceremonial Site Locations, Descriptions, and Bibliography ..... 343**  
*D. Troy Case and Christopher Carr*

<b>8. Definition of Variables and Variable States .....</b>	<b>419</b>
<i>D. Troy Case, Christopher Carr, and Ashley E. Evans</i>	
<b>9. Evaluating the Consistency of Age and Sex Assessments of Ohio Hopewell Human Remains by Previous Investigators.....</b>	<b>465</b>
<i>D. Troy Case</i>	
<b>10. Aging and Sexing Human Remains from the Hopewell Site .....</b>	<b>485</b>
<i>Cheryl A. Johnston</i>	
<b>11. The Functions and Meanings of Ohio Hopewell Ceremonial Artifacts in Ethnohistorical Perspective .....</b>	<b>501</b>
<i>Christopher Carr, Rex Weeks, and Mark Bahti</i>	
<b>12. Contextualizing Preanalyses of the Ohio Hopewell Mortuary Data, I: Age, Sex, Burial-Deposit, and Intraburial Artifact Count Distributions .....</b>	<b>523</b>
<i>Christopher Carr, Beau J. Goldstein, and D. Troy Case</i>	
<b>13. Contextualizing Preanalyses of the Ohio Hopewell Mortuary Data, II: Associations of Artifact Classes across Burials .....</b>	<b>569</b>
<i>Christopher Carr</i>	
<b>14. Data Accuracy and Precision: A Comparison of the HOPEBIOARCH Data Base to N. Greber's and T. Lloyd's Data Bases.....</b>	<b>575</b>
<i>Christopher Carr, Beau J. Goldstein, and D. Troy Case</i>	
<b>IV. FUTURE DIRECTIONS</b>	
<b>15. Coming to Know Ohio Hopewell Peoples Better: Topics for Future Research, Masters' Theses, and Doctoral Dissertations.....</b>	<b>603</b>
<i>Christopher Carr</i>	
<b>References Cited.....</b>	<b>691</b>
<b>Tables.....</b>	<b>733</b>
<b>Figures.....</b>	<b>737</b>
<b>Figure Credits.....</b>	<b>741</b>
<b>Appendices on Compact Disk .....</b>	<b>747</b>
<b>Author Index.....</b>	<b>751</b>
<b>Subject Index.....</b>	<b>759</b>
<b>Coda .....</b>	<b>775</b>



**Compact Disk of Appendices..... Inside Cover**

**Bioarchaeological Data Base**

*D. Troy Case, Christopher Carr, Ashley E. Evans, and Beau J. Goldstein*

**Data Base of Intrasite Layouts**

*Christopher Carr and Rebekah A. Zinser*

**Regional Geographic Data Base**

*Christopher Carr and Rebekah A. Zinser*

**Ethnohistorical Data Base**

*Christopher Carr, Rex Weeks, and Mark Bahti*

**Figures**

*Christopher Carr and Rebekah A. Zinser*

**Other Appendices**

*Christopher Carr, D. Troy Case, Beau J. Goldstein, and Cheryl A. Johnston*

# References Cited

- Abbott, David R.  
1994 The Changing Face of the Community in the Mesa Verde Region A.D. 1000–1300. In *Proceedings of the Anasazi Symposium 1991*, edited by A. Hutchinson and J. E. Smith, pp. 83–98. Mesa Verde Museum Association, Inc., Mesa Verde National Park, Mesa Verde, CO.  
2000 *Ceramics and Community Organization among the Hohokam*. University of Arizona Press, Tucson, AZ.
- Abernethy, Thomas P.  
1928 Review of “Forty-second Annual Report of the Bureau of American Ethnology to the Secretary of the Smithsonian Institution, 1924–1925.” *Mississippi Valley Historical Review* 15(3):418–420.
- Adair, James  
1775 *The History of the American Indians*. E. & C. Dilly, London.
- Aftandilian, David  
2007 Frogs, Snakes, and Agricultural Fertility: Interpreting Illinois Mississippian Representations. In *What Are the Animals to Us?: Approaches from Science, Religion, Folklore, Literature, and Art*, edited by D. Aftandilian, pp. 53–86. University of Tennessee Press, Knoxville.
- Alden, John R.  
1947 Review of “The Indians of the Southeastern United States” by John R. Swanton. *William and Mary Quarterly* 4(2):250–252.
- Alt, Kurt, and Werner Vach  
1998 Kinship Studies in Skeletal Remains: Concepts and Examples. In *Dental Anthropology: Fundamentals, Limits, and Prospects*, edited by K. W. Alt, F. W. Rösing, and M. Tescler-Nicola, pp. 538–554. Springer, New York.
- Ambrose, S.H.  
1990 Preparation and Characterization of Bone and Tooth Collagen for Isotopic Analysis. *Journal of Archaeological Science* 17:431–451.
- Ambrose, S. H., J. Buikstra, and H. Krueger  
2003 Status and Gender Differences in Diet at Mound 72, Cahokia, Revealed by Isotopic Analysis of Bone. *Journal of Anthropological Archaeology* 22: 217–226.
- Angel, Michael  
2002 *Preserving the Sacred: Historical Perspectives on the Midewiwin*. University of Manitoba Press, Winnipeg.
- Asch, David L., and Nancy B. Asch  
1985 Prehistoric Plant Cultivation in West-Central Illinois. In *Prehistoric Food Production in North America*, edited by R. I. Ford, pp. 149–203. University of Michigan, Museum of Anthropology, *Anthropological Papers*, 75. Ann Arbor, MI.
- Asch, Nancy B., Richard I. Ford, and David L. Asch  
1972 Paleoethnobotany of the Koster Site: The Archaic Horizons. Illinois State Museum, *Reports of Investigations*, 24. Illinois Valley Archaeological Program, *Research Papers*, 6.
- Atwater, Caleb  
1820 Description of the Antiquities Discovered in the State of Ohio. *The Transactions and Collections of the American Antiquarian Society* 1:109–251.
- Aument, Bruce  
1990 *Mortuary Variability in the Middle Big Darby Drainage of Central Ohio between 300 B.C. and A.D. 300*. Doctoral dissertation, Department of Anthropology, Ohio State University, Columbus, OH.  
1992 Variability in Two Middle Woodland Habitation Sites from the Central Ohio Uplands. Paper presented at the annual meeting of the Society for American Archaeology, Pittsburgh, PA.
- Aument, Bruce W., Kevin Gibb, Annette Ericksen, and Margaret J. Giesen  
1991 Phase III and IV Data Recovery Survey for 33Fr895 and 33Fr901 on the Wal-Mart Property, Grove City, Franklin County, Ohio. Report submitted to Wal-Mart Stores, Inc. by Archaeological Services Consultants, Inc., Columbus, OH.
- Aykroyd, Robert G., Dave Lucy, Mark A. Pollard, and Charlotte A. Roberts  
1999 Nasty, Brutish, But Not Necessarily Short: A Reconsideration of the Statistical Methods Used to Calculate Age at Death from Adult Human Skeletal Remains and Dental Age Indicators. *American Antiquity* 64(1): 55–70. Bass, William  
1995 *Human Osteology: A Laboratory and Field Manual*. Columbia, MO: Missouri Archaeological Society.
- Baby, Raymond S.  
1948 Field Notes: Ohio State Museum Archaeological Expedition (Site Ro 63). Document on file at the Ohio Historical Center, Columbus, OH, (Envelope 18).

- 1954 Hopewell Cremation Practices. *Papers in Archaeology*, 1. The Ohio Historical Society, Columbus, OH.
- 1956 A Unique Hopewellian Mask-Headress. *American Antiquity* 21(3):303–304.
- 1963a Prehistoric Hand Prints. *Ohio Archaeologist* 13(1):10–11.
- 1963b A Hopewellian Human Bone Whistle. *American Antiquity* 27(1):108–110.
- Baby, Raymond S., and Suzanne M. Langlois  
1977 Archaeological Investigations at Seip Mound State Memorial 1971–1974, 1975, 1976. Archaeological Completion Report submitted to the National Park Service by the Ohio Historical Society, Columbus, OH.
- 1979 Seip Mound State Memorial: Nonmortuary Aspects of Hopewell. *Hopewell Archaeology: The Chillicothe Conference*, edited by D. S. Brose and N. Greber, pp. 16–18. Kent State University Press, Kent, Chillicothe, OH.
- Baby, Raymond S., Martha A. Potter, and A. Mays  
1966 Exploration of the O. C. Voss Mound, Big Darby Reservoir Area, Franklin County, Ohio. The Ohio Historical Society, *Papers in Archaeology*, 3.
- Bacon, Willard S.  
1993 Factors in Siting a Middle Woodland Enclosure in Middle Tennessee. *Midcontinental Journal of Archaeology* 18(2):245–281.
- Bailey, Garrick A.  
1995 *The Osage and the Invisible World: From the Works of Francis La Flesche*. University of Oklahoma Press, Norman, OK.
- Baker, Frank C., James B. Griffin, Richard G. Morgan, George K. Neumann, and Jay L. B. Taylor  
1941 Contributions to the Archaeology of the Illinois River Valley. *Transactions of the American Philosophical Society* 32(1). Philadelphia, PA.
- Baker, Stanley  
1977 Preliminary Archaeological Survey of the Proposed Delphos U.S. Route 30 By-pass. Report submitted to the Ohio Department of Transportation by the Ohio Historical Society, Columbus, OH.
- 1978 The Gilead Site (33 Mw19): A Middle Woodland Component in Northcentral Ohio. *Ohio Archaeologist* 28(4):12–15.
- 1979 Preliminary Archaeological Survey of the Proposed U.S. Route 35 By-pass through Fayette and Ross Counties, Ohio. Report submitted to the Ohio Department of Transportation by the Ohio Historical Society, Columbus, OH.
- 1993 An Archaeological Assessment of Cultural Resources Impacted by the Proposed Relocation of U.S. 35 in Wayne Township, Fayette County and Concord Township, Ross County, Ohio. Bureau of Environmental Services, Ohio Department Of Transportation, Columbus, OH.
- Baker, Stanley W., and Bob Genheimer  
1976 Preliminary Archaeological Survey of the Proposed U.S. Route 35 By-pass in Greene and Fayette Counties, Ohio. Report submitted to the Ohio Department of Transportation by the Ohio Historical Society, Columbus, OH.
- Barbeau, C. Marius  
1914 Supernatural Beings of the Huron and Wyandot. *American Anthropologist* 16(2):288–313.
- 1952 The Old World Dragon in America. In *Indian Tribes of Aboriginal America, Selected Papers of the 29<sup>th</sup> Congress of Americanists*, edited by S. Tax. Cooper Square, New York.
- Barnouw, Victor  
1977 *Wisconsin Chippewa Myths and Tales and Their Relation To Chippewa Life*. University of Wisconsin Press, Madison, WI.
- Barrett, J. H., and M. P. Richards  
2004 Identity, Gender, Religion and Economy: New Isotope and Radiocarbon Evidence for Marine Resource Intensification in Early Historic Orkney, Scotland, UK. *European Journal of Archaeology* 7: 249–271.
- Bartram, Laurence E., Ellen M. Kroll, and Henry T. Bunn  
1991 Variability in Camp Structure and Bone Refuse Patterning at Kua San Hunter-Gatherer Camps. In *The Interpretation of Spatial Patterns within Stone Age Archaeological Sites*, edited by T. D. Price and E. M. Kroll, pp. 77–148. Plenum Publishing, New York.
- Bartram, William  
1792 *Travels through North and South Carolina, Georgia, East and West Florida, the Cherokee Country, the Extensive Territories of the Muscogulges or Creek Confederacy, and the Country of the Chactaws*. J. Johnson, London.
- 1853 Observations on the Creek and Cherokee Indians, 1789. *Transactions of the American Ethnological Society* 3(1):1–81.
- Bass, William M.  
1995 Human Osteology: A Laboratory and Field Manual. Missouri Archaeological Society, *Special Publication*, 2. 4th Edition. 361 pages.
- Basso, Keith H.  
1996 *Wisdom Sits in Places*. University of New Mexico Press, Albuquerque, NM.
- Bayman, James M.  
2002 Hohokam Craft Economies and the Materialization of Power. *Journal of Archaeological Method and Theory*, 9(1):69–95.
- Beard, Thomas C.  
1997 Radiocarbon Dating. In *Hopewell in Mt Vernon: A Study of the Mt. Vernon Site (12-Po-885)*, edited by the General Electric Company, pp. 263–264. General Electric Company, Mount Vernon, IN.
- Beck, Lane A.  
1995 Regional Cults and Ethnic Boundaries in “Southern Hopewell”. In *Regional Approaches to Mortuary Analysis*, edited by L. A. Beck, pp. 167–187. Plenum, New York.
- Beddoe, John  
1903 Review of “Myths of the Cherokee” by James Mooney. *Man* 3:207–208.

- Bedford, M.E., Katherine F. Russell, Owen C. Lovejoy, Richard S. Meindl, Scott W. Simpson, and Patty Stuart-MacAdam  
1993 Test of the Multifactorial Aging Method Using Skeletons with Known Ages-at-death from the Grant Collection. *American Journal of Physical Anthropology* 91:287–297.
- Befu, Harumi, and Leonard Plotnicov  
1962 Types of Corporate Unilineal Descent Groups. *American Anthropologist* 64(2):313–327.
- Bellrose, Frank Chapman  
1976 *Ducks, Geese and Swans of North America*. Second Edition. Stackpole Books, Harrisburg, PA.
- Bender, Barbara  
1978 Gatherer-hunter To Farmer: A Social Perspective. *World Archaeology* 10(2):204–222.  
1985 Prehistoric Developments in the American Midcontinent and in Brittany, Northwest France. In *Prehistoric Hunter-Gatherers: The Emergence of Cultural Complexity*, edited by T.D. Price and J. A. Brown, pp. 21–57. Academic Press, New York.
- Bense, Judith A.  
1994 *Archaeology of the Southeastern United States*. Academic Press, San Diego, CA.
- Bernardini, Wesley  
1999 Labor Mobilization and Community Organization: Ohio Hopewell Geometric Earthworks. Paper presented at the annual meeting of the Society for American Archaeology, Chicago, IL.  
2004 Hopewell Geometric Earthworks: A Case Study in the Referential and Experiential Meaning of Monuments. *Journal of Anthropological Archaeology* 23:331–356.
- Bernardini, Wesley, and Christopher Carr  
2005 Hopewellian Copper Celts from Eastern North America: Their Social and Symbolic Significance. In *Gathering Hopewell: Society, Ritual, and Ritual Interaction*, edited by C. Carr and D. T. Case, pp. 624–647. Kluwer Academic/Plenum Publishers, New York, NY.
- Berres, Thomas E., David M. Strothers, and David Mather  
2004 Bear Imagery and Ritual in Northeast North America: An Update and Assessment of A. Irving Hallowell's Work. *Midcontinental Journal of Archaeology* 29(1):5–42.
- Bieder, Robert E.  
1986 *Science Encounters the Indian, 1820–1880: The Early Years of American Ethnology*. University of Oklahoma Press, Norman.
- Binford, Lewis R.  
1962 Archaeology as Anthropology. *American Antiquity* 28:217–225.  
1964a A Consideration of Archaeological Research Design. *American Antiquity* 29:425–441.  
1964b Archaeological Investigations on Wassam Ridge, by Lewis R. Binford, with appendices by Melvin L. Fowler and James Schoenwetter. *Archaeological Salvage Report*, 17. Southern Illinois University Museum, Carbondale, IL. Abstracted as Galley Pond Mound. In *An Archaeological Perspective*, by L. R. Binford, pp. 390–420. Seminar Press, New York, NY.
- 1971 Mortuary Practices: Their Study and Their Potential. In *Approaches to the Social Dimensions of Mortuary Practices*, edited by J. A. Brown. Society for American Archaeology *Memoirs*, 25:6–29.
- 1983 *In Pursuit of the Past*. Thames and Hudson, New York.
- Bingham, Ann, Doug Core, and Richard Boyer  
1980 *Rock and Mineral Collecting Sites in Ohio*. Ohio Historical Society, Natural History Department, Columbus, OH.
- Binkley, S. H.  
1889 Carlisle Fort. *American Antiquarian*, XI: 174–184.
- Bird, Traveller  
1971 *Tell Them They Lie: The Sequoyah Myth*. Westernlore Publishers, Los Angeles, CA.
- Black, Deborah B.  
1979 Adena and Hopewell Relations in the Lower Hocking Valley. In *Hopewell Archaeology: The Chillicothe Conference*, edited by D. S. Brose and N. Greber, pp. 19–26. Kent State University Press, Kent, OH.
- Blanton, Richard E., Gary M. Feinman, Stephen A. Kowalewski, and Peter N. Peregrine  
1996 A Dual-processual Theory for the Evolution of Mesoamerican Civilization. *Current Anthropology* 37:1–14.
- Blau, Peter M.  
1970 A Formal Theory of Differentiation in Organizations. *American Sociological Review* 35(2):201–218.
- Blazier, Jeremy, AnnCorrinne Freter, and Elliot M. Abrams  
2005 Woodland Ceremonialism in the Hocking Valley. In *The Emergence of the Moundbuilders*, edited by E. M. Abrams and A. C. Freter, pp. 98–114. Ohio University Press, Athens, OH.
- Blom, Deborah E., Benedikt Hallgrímsson, Linda Keng, Mari'a C. Lozada, and Jane E. Buikstra  
1998 Tiwanaku "Colonization": Bioarchaeological Implications for Migration in the Moquegua Valley, Peru. *World Archaeology* 30(2):238–261.
- Bocquet-Appel, Jean-Pierre, and Claude Masset  
1982 Farewell to Paleodemography. *Journal of Human Evolution* 11:321–333.
- Boehme, Sarah E., Christian F. Feest, Patricia C. Johnston.  
1995 *Seth Eastman: A Portfolio of North American Indians*. Afton Historical Society Press, Afton.
- Bohannon, Paul  
1955 Some Principles of Exchange and Investment among the Tiv. *American Anthropologist* 57:60–70.
- Bolnick, Deborah A.  
2005 *The Genetic Prehistory of Eastern North America: Evidence from Ancient and Modern DNA*. Doctoral dissertation, Department of Anthropology, University of California, Davis.

- Bolnick, Deborah A., and David Glenn Smith  
2007 Migration and Social Structure among the Hopewell: Evidence from Ancient DNA. *American Antiquity* 74(4):627–644.
- Bortenschlager, Sigmar, and Klaus Oeggle  
2000 *The Iceman and His Natural Environment: Paleobotanical Results*. Springer, New York.
- Bowen, Francis J.  
1853 Schoolcraft on the Indian Tribes. *North American Review* 77:245–262.
- Brace, C. L., and K. D. Hunt  
1990 A Nonracial Craniofacial Perspective on Human Variation: A(ustralia) to Z(uni). *American Journal of Physical Anthropology* 82:341–360.
- Brain, Jeffrey P., Philip Phillips, and Susan P. Sheldon  
1996 *Shell Gorgets: Styles of the Late Prehistoric and Protohistoric Southeast*. Peabody Museum Press, Cambridge, MA.
- Brandt, Elizabeth  
1977 The Role of Secrecy in a Pueblo Society. In *Flowers of the Wind: Papers on Ritual, Myth, and Symbolism in California and the Southwest*, edited by T. C. Blackburn, pp. 11–28. Anthropological Paper 8, Ballena Press, Socorro.
- 1980 On Secrecy and the Control of Knowledge. In *Secrecy: A Cross-Cultural Perspective*, edited by S. Tefft, pp. 123–146. Human Sciences Press, New York.
- Braun, David P.  
1977 *Middle Woodland-Early Late Woodland Social Change in the Prehistoric Central Midwestern U.S.* Doctoral dissertation, Department of Anthropology, University of Michigan, Ann Arbor, MI.
- 1979 Illinois Hopewell Burial Practices and Social Organization: A Re-examination of the Klunk-Gibson Mound Group. In *Hopewell Archaeology: The Chillicothe Conference*, edited by D. S. Brose and N. Greber, pp. 66–79. Kent State University Press, Kent, OH.
- 1983 Pots as Tools. In *Archaeological Hammers and Theories*, edited by J. A. Moore and A. S. Keene, pp. 107–134. Academic Press, New York, NY.
- 1985 Absolute Seriation: A Time-Series Approach. In *For Concordance in Archaeological Analysis: Bridging Data Structure, Quantitative Technique, and Theory*, edited by C. Carr, pp. 509–539. Westport Publishers, Kansas City, MO.
- 1986 Midwestern Hopewellian Exchange and Supralocal Interaction. In *Peer Polity Interaction and Socio-Political Change*, edited by C. Renfrew and J. F. Cherry, pp. 117–126. Cambridge University Press, Cambridge, UK.
- Braun, David P., and Stephen Plog  
1982 Evolution of 'Tribal' Social Networks: Theory and Prehistoric North American Evidence. *American Antiquity* 47:504–525.
- Bremer, Richard G.  
1987 *Indian Agent and Wilderness Scholar: The Life of Henry Rowe Schoolcraft*. Central Michigan University, Mount Pleasant.
- Brettel, Caroline B., and Carolyn Sargent (editors)  
2001 *Gender in Cross-Cultural Perspective*, 3<sup>rd</sup> edition. Prentice Hall, Upper Saddle River, NJ.
- Brockman, C. Scott  
2006 Physiographic Regions of Ohio (Map). Division of Geological Survey, Department of Natural Resources, State of Ohio. <http://www.ohiodnr.com/geosurvey/pdf/physio.pdf>.
- Broida, M. O.  
1984 An Estimate of the Percents of Maize in the Diets of Two Kentucky Fort Ancient Villages. In *Late Prehistoric Research in Kentucky*, edited by D. Pollack, C. Hockensmith, and T. Sanders, pp. 68–82. Kentucky Heritage Council, Frankfort, KY.
- Brooks, Sheilagh T.  
1955 Skeletal Age at Death: The Reliability of Cranial and Pubic Age Indicators. *American Journal of Physical Anthropology* 13:567–589.
- Brooks, Sheilagh T., and Judy M. Suchey  
1990 Skeletal Age Determination Based on the Os Pubis: A Comparison of the Acsadi-Nemeskeri and Suchey-Brooks Methods. *Human Evolution* 5(3): 227–238.
- Brose, David S.  
1982 The Archaeological Investigation at a Fort Ancient Community near Ohio Brush Creek, Adams County, Ohio. *Kirtlandia* 34. Cleveland Museum of Natural History, Cleveland, OH.
- 1990 Toward a Model of Exchange Values for the Eastern Woodlands. *Midcontinental Journal of Archaeology* 15(1):100–136.
- Brose, David S., James A. Brown, and David W. Penney  
1985 *Ancient Art of the American Woodland Indians*. Harry Abrams, Inc., New York.
- Brown, James A.  
1976 The Southern Cult Reconsidered. *Midcontinental Journal of Archaeology* 1(2):115–135.
- 1979 Charnel Houses and Mortuary Crypts: Disposal of the Dead in the Middle Woodland Period. In *Hopewell Archaeology: The Chillicothe Conference*, edited by D. S. Brose and N. Greber, pp. 211–219. Kent State University Press, Kent, OH.
- 1981 The Search for Rank in Prehistoric Burials. In *The Archaeology of Death*, edited by R. Chapman, I. Kinnes and K. Randsborg, pp. 25–37. Cambridge University Press, Cambridge, UK.
- 1983 Summary. In *Archaic Hunters and Gatherers in the American Midwest*, edited by J. L. Phillips and J. A. Brown, pp. 5–10. Academic Press, New York, NY.
- 1985 The Mississippian Period. In *Ancient Art of the American Woodland Indians*, edited by D. S. Brose, J. A., Brown, and D. W. Penney, pp. 93–146. Harry Abrams, Inc., New York, NY.
- 1994 Inventory and Integrative Analysis: Excavations of Mound City, Ross County, Ohio. Overview of Archaeological Investigations of the Mound City Group National Monument. Report to the National Park Service. Part I. Recommendations.



- Exploration History. Manuscript on file, Hopewell Culture National Historical Park, Chillicothe, OH.
- 1997 Comment to DeBoer, Warren R. (1997), Ceremonial Centers From the Cayapas (Esmeraldas, Ecuador) to Chillicothe (Ohio). *Cambridge Archaeological Journal* 7(2):225–253.
- 1997 The Archaeology of Ancient Religion in the Eastern Woodlands. *Annual Review of Anthropology* 26:465–485.
- 2003 The Cahokia Mound 72-Sub1 Burials as Collective Representation. In *A Deep-Time Perspective: Studies in Symbols, Meaning, and the Archaeological Record, Papers in Honor of Robert L. Hall*, edited by J. D. Richards and M. L. Fowler. *The Wisconsin Archaeologist* 84:81–97.
- 2004 The Cahokian Expression: Creating Court and Cult. In *Hero, Hawk, and Open Hand: American Indian Art of the Ancient Midwest and South*, edited by R. F. Townsend and R. V. Sharp, pp. 105–123. The Art Institute of Chicago and Yale University Press, New Haven, CN.
- 2005 6000 Years of Mound Building. Book review of *The Moundbuilders: Ancient Peoples of Eastern North America*, by George Milner (2004). *Cambridge Archaeological Journal* 15(1):113–115.
- 2006 Where's the Power in Mound Building? An Eastern Woodlands Perspective. In *Leadership and Polity in Mississippian Society*, edited by B. M. Butler and P. D. Welch, pp. 197–213. Center for Archaeological Investigations, Southern Illinois University, Occasional Paper, 33. Carbondale, IL.
- Brown, James A., and Raymond S. Baby  
1966 Mound City Revisited. Report to the National Park Service, on file in the Department of Archaeology, the Ohio Historical Society, Columbus.
- Brown, James A., and David H. Dye  
2007 Severed Heads and Sacred Scalplocks: Mississippian Iconographic Trophies. In *The Taking and Displaying of Human Body Parts as Trophies by Amerindians*, edited by D. H. Dye and R. J. Chacon, pp. 278–298. Springer, New York.
- Brown, James, A., and Stuart Struever  
1973 The Organization of Archaeological Research. In *Research and Theory in Current Archaeology*, ed. by C. L. Redman, pp. 261–280. John Wiley & Sons, New York.
- Brown, James A., and Robert K. Vierra  
1983 What Happened in the Middle Archaic? Introduction to an Ecological Approach to Koster Site Archaeology. In *Archaic Hunters and Gatherers in the American Midwest*, edited by J. L. Phillips and J. A. Brown, pp. 165–195. Academic Press, New York, NY.
- Brown, Joseph Epes  
1971 *The Sacred Pipe: Black Elk's Account of the Seven Rites of the Oglala Sioux*. Penguin Books, New York, NY.
- Brunson, Judy L.  
1995 The Social Organization of the Los Muertos Hohokam: A Reanalysis of Cushing's Hemenway Expedition Data. Doctoral dissertation, Department of Anthropology, Arizona State University, Tempe, AZ.
- Buckberry, JL and AT Chamberlain  
2002 Age Estimation from the Auricular Surface of the Ilium: A Revised Method. *American Journal of Physical Anthropology* 119:281–289.
- Buikstra, Jane E.  
1976 *Hopewell in the Lower Illinois valley: A Regional Study of Human Biological Variability and Prehistoric Mortuary Behavior*. Northwestern University Archeological Program, *Scientific Papers* 2. Northwestern Archeological Program, Evanston.
- 1977 Biocultural Dimensions of Archeological Study: A Regional Perspective. In *Sociocultural Adaptation in Prehistoric America*, edited by R. Blakely, pp. 67–83. *Proceedings of the Southern Anthropological Society*, vol. 11. University of Georgia, Athens, GA.
- 1981 Mortuary Practices, Palaeodemography, and Palaeopathology: A Case Study from the Koster Site (Illinois). In *The Archaeology of Death*, edited by R. Chapman, I. Kinnes and K. Randsborg, pp. 123–132. Cambridge University Press, Cambridge, UK.
- 2006 On to the Twenty-First Century. In *Bioarchaeology: Contextual Analysis of Human Remains*, ed. by J. E. Buikstra and L. A. Beck, pp. 347–357. Academic Press, New York, NY.
- Buikstra, Jane E., and Douglas K. Charles  
1999 Centering the Ancestors: Cemeteries, Mounds, and Sacred Landscapes of the Ancient North American Midcontinent. In *Archaeologies of Landscape: Contemporary Perspectives*, edited by W. Ashmore and A. B. Knapp, pp. 201–228. Blackwell, Malden, MA.
- Buikstra, Jane E., Douglas K. Charles, and Gordon F. M. Rakita  
1998 Staging Ritual: Hopewell Ceremonialism at the Mound House Site, Greene County, Illinois. *Kampsville Studies in Archeology and History*, 1. Center for American Archeology, Kampsville, IL.
- Buikstra, Jane E., Lyle W. Konigsberg, and Jill Bullington  
1986 Fertility and the Development of Agriculture in the Prehistoric Midwest. *American Antiquity* 51(3):528–546.
- Buikstra, Jane. E., T. Douglas Price, James. H. Burton, and Laurie E. Wright  
2004 Tombs from Copan's Acropolis: A Life History Approach. In *Understanding Early Classic Copan*, edited by E. E. Bell, M. A. Canuto, and R. J. Sharer, pp. 191–212. University of Pennsylvania, Museum of Archaeology and Anthropology, Philadelphia.
- Buikstra, Jane E. and Douglas H. Ubelaker  
1994 *Standards For Data Collection From Human Skeletal Remains: Proceedings of a Seminar at The Field Museum of Natural History*. Arkansas Archaeological Survey, Fayetteville, AK.

- Burkett, Frank N.  
1997 Kings, Clouds, Birds, and Ears: Reflections on the Decorated Leather Objects from the Mt. Vernon Site. In *Hopewell in Mt. Vernon: A Study of the Mt. Vernon Site* (12-PO-885), pp. 265–275, edited by the General Electric Company. General Electric, Mt. Vernon, IN.
- Burks, Jarrod  
2004 Identifying Household Cluster and Refuse Disposal Patterns at the Strait Site: A Third Century A.D. Nucleated Settlement in the Middle Ohio River Valley. Doctoral dissertation, Department of Anthropology, Ohio State University, Columbus, OH.
- Burks, Jarrod, Jennifer Pederson, and Dawn Walter  
2002 Hopewell Land Use Patterns at Hopeton Earthworks. Paper presented at the annual meeting of the Society for American Archaeology, Denver, CO.
- Burton, Kelli Whitlock  
2006 Putting Down Roots? *American Archaeology* 10(3):33–37.
- Bush, David R., Frank J. Cantelas, and Jare Cardinal  
1989 The Phase II Cultural Resource Report for the Proposed PIK-SR 32–13.55 Project in Pike County, OH. Final. Archaeological Laboratory, Department of Anthropology, Case Western Reserve University, Cleveland, OH.
- Bush, David R., Judith E. Thomas, Mark A. Kollecker, and Michael A. Simon  
1992 The Phase III Investigations for the Proposed PIK-SR 32–13.55 Project in Pike County, Ohio (Final Draft). Report submitted to Burgess and Niple, Columbus, Ohio by the Archaeological Laboratory, Department of Anthropology, Case Western University, Cleveland, OH.
- Butler, Brian M.  
1979 Hopewellian Contacts in Southern Middle Tennessee. In *Hopewell Archaeology: The Chillicothe Conference*, edited by D. S. Brose and N. Greber, pp. 150–156. The Kent State University Press, Kent, OH.
- Buttrick, Daniel S.  
1884 *Antiquities of the Cherokee Indians*. Indian Chieftain, Vinita.
- Byers, Martin  
1996 Social Structure and the Aramgatic Meaning of Material Culture: Ohio Hopewell as Ecclesiastic-Communal Cult. In *A View from the Core: A Synthesis of Ohio Hopewell Archaeology*, edited by P. J. Pacheco, pp. 174–192. Kent State University Press, Kent, OH.
- 2004 *The Ohio Hopewell Episode: Paradigm Lost, Paradigm Gained*. The University of Akron Press, Akron, OH.
- Cadiente, Teresa  
1998 Musculoskeletal Stress Markers (MSM) and Social Differentiation: A Comparison of Hopewellian and Fort Ancient Peoples of Ohio. Masters Thesis, Department of Anthropology, Arizona State University.
- Caldwell, Joseph R.  
1955 Interaction Spheres in Prehistory. *Illinois State Museum, Scientific Papers*, 12(6):133–156. Springfield, IL.
- 1958 *Trend and Tradition in the Prehistory of the Eastern United States*. Memoirs 88. American Anthropological Association, Springfield, OH.
- Callender, Charles  
1962 *Social Organization of the Central Algonkian Indians*. Publications in Anthropology 7. Milwaukee Public Museum, Milwaukee, WI.
- 1978a Fox. In *Handbook of North American Indians*, vol. 15, *Northeast*, edited by B. G. Trigger, pp. 636–647. Smithsonian Institution Press, Washington, DC.
- 1978b Great Lakes–Riverine Sociopolitical Organization. In *Handbook of North American Indians*, vol. 15: *Northeast*, edited by B. G. Trigger, pp. 610–621. Smithsonian Institution Press, Washington, DC.
- 1978c Shawnee. In *Handbook of North American Indians*, vol. 15, *Northeast*, edited by B. G. Trigger, pp. 622–635. Smithsonian Institution Press, Washington, DC.
- 1978d Illinois. In *Handbook of North American Indians*, vol. 15: *Northeast*, edited by B. G. Trigger, pp. 673–680. Smithsonian Institution Press, Washington, DC.
- 1978e Miami. In *Handbook of North American Indians*, vol. 15: *Northeast*, edited by B. G. Trigger, pp. 681–689. Smithsonian Institution Press, Washington, DC.
- 1994 Central Algonkian Moieties. In *North American Indian Anthropology: Essays on Society and Culture*, edited by R. J. DeMallie and A. Ortiz, pp. 108–124. University of Oklahoma Press, Norman.
- Callender, Charles, Richard K. Pope and Susan M. Pope  
1978 Kickapoo. In *Handbook of North American Indians*, vol. 15: *Northeast*, edited by B. G. Trigger, pp. 656–667. Smithsonian Institution Press, Washington, DC.
- Cannon, Aubrey  
1989 The Historical Dimension in Mortuary Expressions of Status and Sentiment. *Current Anthropology* 30(4):437–447.
- Capasso, Luigi, K. A. R. Kennedy, and C. A. Wilczek  
1999 Atlas of Occupational Markers in Human Remains. *Journal of Paleontology, Monograph Publication* 3. Edigrafital S.p.A., Taramo, Italy.
- Carlson, Earnest H.  
1991 Minerals of Ohio. State of Ohio, Department of Natural Resources, Division of Geological Survey, *Bulletin* 69.
- Carr, Christopher  
1982 *Handbook on Soil Resistivity Surveying*. Center for American Archaeology, Evanston, IL.
- 1985 Getting into Data: Philosophy and Tactics for the Analysis of Complex Data Structures. In *For Concordance in Archaeological Analysis: Bridging Data Structure, Quantitative Technique, and Theory*,



- edited by C. Carr, pp. 18–44. Westport Publishers, Inc., Kansas City, MO.
- 1990–1991 Final Report to the Wenner-Gren Foundation for Anthropological Research for the grant entitled: “Modeling the Evolution of Alliance Strategies as Systems Regulators in Egalitarian Societies”. In *Wenner-Gren Foundation for Anthropological Research, Incorporated, Report for 1990 and 1991, Fiftieth Anniversary Issue*. Wenner-Gren Foundation, New York, NY.
- 1991 Left in the Dust: Contextual Information in Model-Focused Archaeology. In *The Interpretation of Spatial Patterns within Stone Age Archaeological Sites*, edited by T. D. Price and E. M. Kroll, pp. 221–256. Plenum Publishing, New York.
- 1995 Mortuary Practices: Their Social, Philosophical-Religious, Circumstantial, and Physical Determinants. *Journal of Archaeological Method and Theory* 2(2):105–200.
- 1997 Adena Tablets and Reel-shaped Gorgets Revisited: Continuity and Change in Ohio and Eastern Woodlands Indian Cosmology. Paper presented at the Ohio Archaeological Council, Chillicothe, OH.
- 1998 An Overview of Some Essential World View Themes and Specific Beliefs Expressed in Ohio Hopewell Art and Burial Practices. Paper presented at the Annual Midwest Archaeological Conference, Muncie, IN.
- 1998/1999 Reconstructing the Cosmology of Prehistoric Ohio Hopewell Peoples, and Its Role in the Development of Supralocal Leadership (50 B.C. – A.D. 350). Wenner-Gren Foundation for Anthropological Research, Incorporated, *Biennial Report for 1998–1999*. Wenner-Gren Foundation, New York, NY.
- 1999a Continuity and Change in the Representation, Use, and Meaning of the World Axis in Pre-Contact, Eastern Woodlands Material Culture. Paper presented at the biennial meeting of the Native American Art Studies Association, Victoria, BC.
- 1999b The Adena Tablets of Ohio, Kentucky, and West Virginia: Continuity and Change in the Cosmology of Woodland Native Americans. Paper presented at the annual meeting of the Society for American Archaeology, Chicago, IL.
- 2000a Ohio Hopewell Cosmology and Art. Keynote lecture presented at the Tenth Annual Woodland Conference, sponsored by the Museums at Prophetstown and Hopewell Culture National Historical Park, National Park Service, Chillicothe, OH.
- 2000b Ohio Hopewellian Cosmology and Its Material, Symbolic Representations. Paper presented at the Conference entitled Perspectives on Middle Woodland at the Millennium. Center for American Archaeology, Pere Marquette Park, IL.
- 2000c Development of High-Resolution, Digital, Color and Infrared Photographic Methods for Preserving Imagery on Hopewellian Copper Artifacts. Funded grant proposal to the National Park Service, National Center for Preservation Technology and Training, Natchitoches, LA. On file with the granting agency and Principal Investigator.
- 2000d Artworks on Ohio Hopewellian Copper Artifacts. Paper presented at the annual meeting of the Society for American Archaeology, Philadelphia, PA.
- 2005a The Tripartite Ceremonial Alliance among Scioto Hopewellian Communities and the Question of Social Ranking. In *Gathering Hopewell: Society, Ritual, and Ritual Interaction*, edited by C. Carr and D. T. Case, pp. 258–338. Kluwer Academic/Plenum Publishers, New York, NY.
- 2005b Salient Issues in the Social and Political Organizations of Northern Hopewellian Peoples: Contextualizing, Personalizing, and Generating Hopewell. In *Gathering Hopewell: Society, Ritual, and Ritual Interaction*, edited by C. Carr and D. T. Case, pp. 73–118. Kluwer Academic/Plenum Publishers, New York, NY.
- 2005c Scioto Hopewell Ritual Gatherings: A Review and Discussion of Previous Interpretations and Data. In *Gathering Hopewell: Society, Ritual, and Ritual Interaction*, edited by C. Carr and D. T. Case, pp. 463–479. Kluwer Academic/Plenum Publishers, New York, NY.
- 2005d Rethinking Interregional Hopewellian “Interaction”. In *Gathering Hopewell: Society, Ritual, and Ritual Interaction*, edited by C. Carr and D. T. Case, pp. 575–623. Kluwer Academic/Plenum Publishers, New York, NY.
- 2005e Final Report. Development of High-Resolution, Digital, Color and Infrared Photographic Methods for Preserving Imagery on Hopewellian Copper Artifacts. Grant No. MT-2210-0-NC-12. The National Center for Preservation Technologies and Training, Natchitoches, LA. On file with the granting agency and at the Ohio Historical Society, Columbus, OH.
- 2005f The Question of Ranking in Havana Hopewellian Societies: A Retrospective in Light of Multi-cemetery Ceremonial Organization. In *Gathering Hopewell: Society, Ritual, and Ritual Interaction*, edited by C. Carr and D. T. Case, pp. 238–257. Kluwer Academic/Plenum Publishers, New York, NY.
- Carr, Christopher, and D. Troy Case
- 2005a The Gathering of Hopewell. In *Gathering Hopewell: Society, Ritual, and Ritual Interaction*, edited by C. Carr and D. T. Case, pp. 19–50. Kluwer Academic/Plenum Publishers, New York, NY.
- 2005b The Nature of Leadership in Ohio Hopewellian Societies: Role Segregation and the Transformation from Shamanism. In *Gathering Hopewell: Society, Ritual, and Ritual Interaction*, edited by C. Carr and D. T. Case, pp. 177–237. Kluwer Academic/Plenum Publishers, New York, NY.
- Carr, Christopher, and D. Troy Case (editors)
- 2005c *Gathering Hopewell: Society, Ritual, and Ritual Interaction*, edited by C. Carr and

- D. T. Case. Kluwer Academic/Plenum Publishers, New York, NY.
- Carr, Christopher, Beau J. Goldstein, and Jaimin Weets  
2005 Estimating the Sizes and Social Compositions of Mortuary-Related Gatherings at Scioto Hopewell Earthwork-Mound Sites. In *Gathering Hopewell: Society, Ritual, and Ritual Interaction*, edited by C. Carr and D. T. Case, pp. 480–532. Kluwer Academic/Plenum Publishers, New York, NY.
- Carr, Christopher, and Herbert Haas  
1996 Beta-Count and AMS Radiocarbon Dates of Woodland and Fort Ancient Period Occupations in Ohio, 1350 B.C.–A. D. 1650. *West Virginia Archeologist* 48(1&2):19–36.
- Carr, Christopher, and Jean-Christophe Komorowski  
1995 Identifying the Mineralogy of Rock Temper in Ceramics Using X-Radiography. *American Antiquity* 60(4):723–749.
- Carr, Christopher, and Andrew D. W. Lydecker  
1998 Exploring the Possibility of Artwork on Ohio Hopewell Copper Artifacts (ca. 50 B.C - A.D. 350) with High Resolution Digital Photography, Image Enhancement, and Electron Microprobe Chemical Analysis. Report on file with the National Park Service, Hopewell Culture National Historical Park, Chillicothe, OH.
- Carr, Christopher, A. D. W. Lydecker, E. Kopala, J. S. Nicoll, J. A. Colwell, S. M. Hoffman, J. Mitchell, A. Yates, D. Pimentell, D. Simpson, and J. Barron  
2002 Technical Studies of Artworks on Ohio Hopewell Copper Artifacts. Paper presented at the Midwestern Archaeological Conference, Columbus, OH.
- Carr, Christopher, and Robert F. Maslowski  
1995 Cordage and Fabrics: Relating Form, Technology, and Social Processes. In *Style, Society, and Person: Archaeological and Ethnological Perspectives*, edited by C. Carr and J. E. Neitzel, pp. 297–343. Plenum Press, New York, NY.
- Carr, Christopher, and Jill E. Neitzel  
1995 Integrating Approaches to Material Style in Theory and Philosophy. In *Style, Society, and Person*, edited by C. Carr and J. E. Neitzel, pp. 3–29. Plenum Publishing, New York, NY.
- Carr, Christopher, and Derek G. W. Sears  
1985 Toward an Analysis of the Exchange of Meteoritic Iron in the Middle Woodland. *Southeastern Archaeology* 4(2):79–92.
- Carrithers, Michael, Steven Collins, and Steven Lukes (editors)  
1985 *The Category of the Person*. Cambridge University Press, Cambridge, UK.
- Carskadden, Jeff, and James Morton  
1996 The Middle Woodland–Late Woodland Transition in the Central Muskingum Valley of Eastern Ohio: A View from the Philo District. In *A View from the Core: A Synthesis of Ohio Hopewell Archaeology*, edited by P. J. Pacheco, pp. 316–339. Kent State University Press, Kent, OH.
- 1997 Living on the Edge: A Comparison of Adena and Hopewell Communities in the Central Muskingum Valley of Eastern Ohio. In *Ohio Hopewell Community Organization*, edited by W. S. Dancy and P. J. Pacheco, pp. 365–401. Kent State University Press, Kent, OH.
- Carskadden, Jeff, and James Morton (editors)  
1977 The Richards Site and the Philo Phase of the Fort Ancient Tradition. *Occasional Papers in Muskingum Valley Archaeology*, 1–9. Muskingum Valley Archaeological Survey, Zanesville, OH.
- Casagrande, Joseph B.  
1952 Ojibwa Bear Ceremonialism: The Persistence of a Ritual Attitude. In *Acculturation in the Americans*, edited by S. Tax, pp. 113–117. Proceedings and Selected Papers of the 29<sup>th</sup> International Congress of Americanists. University of Chicago Press, Chicago, IL.
- Case, D. Troy  
1995 An Analysis of Scalping Cases and Treatment of Victims' Corpses in Prehistoric North America. Paper on file with the author, Department of Anthropology, North Carolina State University, Raleigh, N.C.
- Cass, Lewis  
1823 *Inquiries, Respecting the History, Traditions, Languages, Manners, Customs, and Religion of the Indians, Living within the United States*. Sheldon & Reed, Detroit.
- Catlin, George  
1926 *North American Indians: Being Letters and Notes on Their Manners, Customs, and Conditions, Written During Eight Years' Travel Amongst the Wildest Tribes of Indians in North America, 1832–1839*. 2 volumes. John Grant, Edinburgh, reprinted from the 1860 edition published by J. W. Bradley, Philadelphia, PA.
- Chagnon, Napoleon A.  
1968 *The Yanomamo: The Fierce People*. Holt, Rinehart, and Winston, New York, NY.
- Chamberlain, Alexander F.  
1903 Review of the "Nineteenth Annual Report of the Bureau of American Ethnology to the Secretary of the Smithsonian Institution, 1897–1898." *American Anthropologist* 5(2):336–345.
- Charles, Douglas K.  
1992 Woodland Demographic and Social Dynamics in the American Midwest: Analysis of a Burial Mound Survey. *World Archaeology* 24:175–197.
- 1995 Diachronic Regional Social Dynamics: Mortuary Sites in the Illinois Valley/American Bottom Region. In *Regional Approaches to Mortuary Analysis*, edited by L. A. Beck, pp. 77–99. Plenum, New York, NY.
- Chaudhuri, Jean, and Joyotpaul Chaudhuri  
2001 *A Sacred Path: The Way of the Muscogee Creeks*. UCLA American Indian Studies Center, Los Angeles, CA.

- Childe, V. Gordon  
1945 Directional Changes in Funerary Practices during 50,000 years. *Man* 4:13–19.
- Church, Flora  
1987 *An Inquiry into the Transition from Late Woodland to Late Prehistoric Cultures in the Central Scioto Valley, Ohio, Circa A.D. 500 to A.D. 1250*. Doctoral dissertation, Department of Anthropology, Ohio State University, Columbus, OH.  
1989 Phase IV Excavation at 33 Vi 315, Vinton County, Ohio: Construction Mitigation for the Parkersburg-Hopetown Segment of the AT&T Fiber Optics Cable. Report submitted by Archaeological Services Consultants, Columbus, OH, to Buker, Willis, and Ratliff, Chillicothe, OH.
- Church, Flora, and Annette Ericksen  
1992 Beyond the Scioto Valley: Middle Woodland Occupation in the Salt Creek Drainage. Paper presented at the annual meeting of the Society for American Archaeology, Pittsburgh, PA.  
1997 Beyond the Scioto Valley: Middle Woodland Occupation in the Salt Creek Drainage. In *Ohio Hopewell Community Organization*, edited by W. S. Dancey and P. J. Pacheco, pp. 331–360. Kent State University Press, Kent, OH.
- Churchill, Mary C.  
2000 Purity and Pollution: Unearthing an Oppositional Paradigm in the Study of Cherokee Religious Traditions. In *Native American Spirituality: A Critical Reader*, edited by Lee Irwin, pp. 205–235. University of Nebraska Press, Lincoln.
- Claassen, Cheryl, and Rosemary A. Joyce  
1997 *Women in Prehistory: North America and Mesoamerica*. University of Pennsylvania Press, Philadelphia.
- Clay, R. Berle  
1987 Circles and Ovals: Two Types of Adena Space. *Southeastern Archaeology* 6(1):46–56.  
1992 Chiefs, Big Men, or What? Economy, Settlement Patterns, and Their Bearing on Adena Political Models. In *Cultural Variability in Context*, edited by M. F. Seaman, pp. 77–80. *Mid-Continental Journal of Archaeology, Special Paper 7*. Kent State University Press, Kent, OH.  
1998 The Essential Features of Adena Ritual and Their Implications. *Southeastern Archaeology* 17(1):1–21.
- Clay, R. Berle, and Charles M. Niquette  
1989 Phase III Excavations at the Niebert Site (46MS103) in the Gallipolis Locks and Dam Replacement Project, Mason County, West Virginia. Final Report prepared by Cultural Resource Analysts, Lexington, Kentucky, Contract Publication Series 89–06, and submitted to the Huntington District Corps of Engineers, Huntington, WV.
- Cleland, Charles E.  
1985 Naub-Cow-Zo-Win Discs and Some Observations on the Origin and Development of Ojibwa Iconography. *Arctic Anthropology* 22(2): 131–140.
- Clements, William M.  
1990 Schoolcraft as Textmaker. *Journal of American Folklore* 103(408):177–192.
- Clifton, James A.  
1978 Potawatomi. In *Handbook of North American Indians*, vol. 15, *Northeast*, edited by B. G. Trigger, pp. 725–742. Smithsonian Institution Press, Washington, DC.
- Cobb, Charles R., Jeffrey Maymon, and Randall H. McGuire  
1999 Feathered, Horned, and Antlered Serpents: Mesoamerican Connections with the Southwest and Southeast. In *Great Towns and Regional Politics in the Prehistoric American Southwest and Southeast*, edited by J. E. Neitzel, pp. 165–181. University of New Mexico Press, Albuquerque.
- Colby, William M.  
1977 Routes to Rainy Mountain: A Biography of James Mooney, Ethnologist. Doctoral dissertation, Department of History, University of Wisconsin, Madison.
- Coleman, Simon, and John Elsner  
1995 *Pilgrimage Past and Present: Sacred Travel and Sacred Space in World Religions*. British Museum Press, London, England.
- Connolly, Robert P.  
2004 Time Space, and Function at Fort Ancient. In *The Fort Ancient Earthworks: Prehistoric Lifeways of the Hopewell Culture in Southwestern Ohio*, edited by R. P. Connolly and B. T. Lepper, pp. 217–222. Ohio Historical Society, Columbus, OH.
- Conrad, A. R.  
1985 A Preliminary Report on Incinerator Site (33MY57) Stable Carbon Isotope Ratios Used in Dietary Reconstruction. Paper presented at the 61<sup>st</sup> annual meeting of the Central States Anthropological Society, Louisville, KY. April 25.
- Converse, Robert N.  
1973 *Ohio Stone Tools*. The Archaeological Society of Ohio, Columbus, OH.  
1979 Editor's Page. *Ohio Archaeologist* 29(2):3.  
2003 *The Archaeology of Ohio*. The Archaeological Society of Ohio, Columbus, OH.
- Cook, Della  
1981 Mortality, Age Structure and Status in the Interpretation of Stress Indicators in Prehistoric Skeletons: A Dental Example from the Lower Illinois Valley. In *The Archaeology of Death*, edited by R. Chapman, I. Kinnes, and K. Randsborg, pp. 133–144. Cambridge University Press, Cambridge.
- Cook, S. F.  
1972 *Prehistoric Demography. McCaleb Module in Anthropology, Module 16*. Addison Wesley, Reading, MA.
- Cook, Thomas Genn  
1976 Koster: An Artifact Analysis of Two Archaic Phases in Westcentral Illinois. Northwestern

- Archaeological Program, *Prehistoric Records* 1. Evanston, IL.
- Cordy-Collins, Alana  
1980 An Artistic Record of the Chavin Hallucinatory Experience. *The Masterkey* 54(3):84–93.
- Cotkin, Spencer J., Christopher Carr, Mary L. Cotkin, Alfred E. Dittert, and D. T. Kremser  
1999 Analysis of Slips and Other Inorganic Surface Materials on Woodland and Early Fort Ancient Ceramics, South-Central Ohio. *American Antiquity* 64(2):316–342.
- Coughlin, Sean, and Mark F. Seeman  
1996 Hopewell Settlements at the Liberty Earthworks, Ross County, Ohio. In *Ohio Hopewell Community Organization*, edited by W. S. Dancey and P. J. Pacheco, pp. 231–250. Kent State University Press, Kent, OH.
- Counts, David R.  
1979 The Good Death in Kalai: Preparation for Death in Western New Britain. In *Death and Dying: Views from Many Cultures*, edited by R. A. Kalish, pp. 39–44. Baywood, Farmingdale, NY.
- Cowan, Frank L.  
2005 Black and White and Buried All Over. Presented at the 52<sup>nd</sup> annual meeting of the Midwest Archaeological Conference, Dayton, OH.  
2006 A Mobile Hopewell? Questioning Assumptions of Ohio Hopewell Sedentism. In *Recreating Hopewell*, edited by D. K. Charles and J. E. Buikstra, pp. 26–49. University Press of Florida, Gainesville, FL.
- Cowan, Frank L., and N'omi B. Greber  
2002 Hopewell Mound 11: Yet Another Look at an Old Collection. *The Newsletter of Hopewell Archaeology in the Ohio River Valley* 5(2):7–11.
- Cowan, Frank L., and Ted S. Sunderhaus  
2000 Wooden Architecture in Ohio Hopewell Sites: Structural and Spatial Patterns at the Stubbs Earthworks Site. Paper presented at the annual meeting of the Society for American Archaeology, Philadelphia.  
2002 Dating the Stubbs “Woodworks”. *Ohio Archaeological Council Newsletter* 14:11–16.
- Cowan, Frank L., Ted S. Sunderhaus, and Robert A. Genheimer  
2004 Earthwork Peripheries: Probing the Margins of the Fort Ancient Site. In *The Fort Ancient Earthworks*, edited by R. P. Connolly and B. T. Lepper, pp. 107–124. Ohio Historical Society, Columbus, OH.
- Cox, G., and J. Sealy  
1997 Investigating Identity and Life Histories: Isotopic Analysis and Historical Documentation of Slave Skeletons Found on the Cape Town Foreshore, South Africa. *International Journal of Historical Archaeology* 1:207–224.
- Crowl, Gordon S.  
1937 *A Vegetation Survey of Ross County*. Master's thesis, Department of Botany, Ohio State University, Columbus, OH.
- Crown, Patricia L., and S. K. Fish  
1996 Gender and Status in the Hohokam Pre-Classical Tradition. *American Anthropologist* 98(4): 803–812.
- Cunningham, Wilbur M  
1948 A Study of the Glacial Kame Culture in Michigan, Ohio, and Indiana. *Occasional Contributions from the Museum of Anthropology of the University of Michigan*, 12. Ann Arbor, MI.
- Dancey, William S.  
1984 The 1914 *Archaeological Atlas of Ohio*: Its History and Significance. Paper presented at the annual meeting of the Society for American Archaeology, Portland, OR.  
1988 The Community Plan of an Early Late Woodland Village in the Middle Scioto River Valley. *Midcontinental Journal of Archaeology* 13:223–258.  
1991 A Middle Woodland Settlement in Central Ohio: A Preliminary Report on the Murphy Site (33Li212). *Pennsylvania Archaeologist* 61:7–72.  
1992 Village Origins in Central Ohio: The Results and Implications of Recent Middle and Late Woodland Research. In *Cultural Variability in Context: Woodland Settlements of the Mid-Ohio Valley*, edited by M. Seeman, pp. 24–29. Midcontinental Journal of Archaeology, *Special Publication* 7. Kent State University Press, Kent, OH.  
1995 Hopeton Settlement Archaeology, 1995. In *Hopewell Archaeology: The Newsletter of Hopewell Archaeology in the Ohio River Valley*, vol. 1(2), edited by M. J. Lynott and B. J. Ruby. National Park Service Midwest Archaeological Center and Hopewell Culture National Historical Park, Lincoln, NE and Chillicothe, OH. Electronic version: <http://www.cr.nps.gov/mwac/hopewell/v1n2/>.
- 1996 Hopewell Earthwork Catchment Survey: Interim Report. Report submitted to the National Park Service, Hopewell Culture National Historical Park, Chillicothe, OH.
- 1997 Interim Report on Archaeological Investigations Undertaken on the Overly Tract, Ross County, Ohio, March, 1995 to November, 1996. Report submitted to the National Park Service, Midwest Archaeological Center and Hopewell Culture National Historical Park, Chillicothe, OH.
- Dancey, William S., and Paul J. Pacheco  
1997a A Community Model of Ohio Hopewell Settlement. In *Ohio Hopewell Community Organization*, edited by W. S. Dancey and P. J. Pacheco, pp. 3–40. Kent State University Press, Kent, OH.
- Dancey, William S., and Paul J. Pacheco (editors)  
1997b *Ohio Hopewell Community Organization*. Kent State University Press, Kent, OH.
- Dawson, Alice  
1975 Graphic Art and Design of the Cashnahu. In *The Cachinahu of Eastern Peru*, pp. 130–149, edited by J. P. Dwyer. Studies in Anthropology and Material Culture, 1. The Haffenreffer Museum of Anthropology, Brown University, Bristol, RI.

- DeBoer, Warren R.  
 1997 Ceremonial Centers From the Cayapas (Esmeraldas, Ecuador) to Chillicothe (Ohio). *Cambridge Archaeological Journal* 7(2):225–253.  
 2004 Little Bighorn on the Scioto: The Rocky Mountain Connection To Ohio Hopewell. *American Antiquity* 69(1):85–107.  
 2005 Colors for a North American Past. *World Archaeology* 37(1):66–91.
- Delcourt, Paul A., and Hazel R. Delcourt  
 1987 *Long-term Forest Dynamics of the Temperate Zone: A Case Study of Late Quarternary Forests in Eastern North America*. Cambridge University Press, Cambridge, UK.  
 2004 *Prehistoric Native Americans and Ecological Change: Human Ecosystems in Eastern North America since the Pleistocene*. Cambridge University Press, Cambridge, UK.
- DeMallie, Raymond J., (editor)  
 2001 *Handbook of North American Indians: Plains*, v.13. U.S. Government Printing Office, Washington.
- DeMarrais, Elizabeth, Luis Jaime Castilo, and Timothy K. Earle  
 1996 Ideology, Materialization, and Power Strategies. *Current Anthropology* 37:15–31.
- Derry, Douglas E.  
 1909 Note on the Innominate Bone as a Factor in the Determination of Sex: With Special Reference to the Sulcus Preauricularis. *Journal of Anatomy and Physiology* 43:266–276.  
 1911 The Significance of the Sulcus Preauricularis. *Anthropologischer Anzeiger* 39:13–20.
- de Volney, Comte  
 1822 *The Ruins or, A Survey of the Revolutions of Empires to Which is Added the Law of Nature*. Translated from French by Constantin-François Volney [1791]. Edward Edwards, London.
- Dewdney, Selwyn  
 1975 *The Sacred Scrolls of the Southern Ojibway*. University of Toronto Press, Toronto.
- Diaz-Granados, Carol, Marvin W. Rowe, Marian Hyman, James R. Duncan, and John R. Southon  
 2001 AMS Radiocarbon Dates for Charcoal from Three Missouri Pictographs and Their Associated Iconography. *American Antiquity* 66(3):481–493.
- Dillingham, Betty Ann (Wilder)  
 1963 *The Oklahoma Kickapoo*. Doctoral dissertation, Department of Anthropology, University of Michigan, Ann Arbor, MI.
- Dippie, Brian W.  
 1990 *Catlin and His Contemporaries: The Politics of Patronage*. University of Nebraska Press, Lincoln.
- Dorsey, George A.  
 1891 The Hopewell Works: Mounds 1 to 24 (Clark's Work on the Hopewell Group, Ross County, Ohio). An Illustrated Catalog of the Moorehead Collection. Manuscript on file at the Field Museum of Natural History, Chicago, Illinois (File A17, Folder 4).
- Dorson, Richard M.  
 1980 John Reed Swanton. In *Dictionary of American Biography, Supplement 6* (1956–1960), edited by John A. Garraty, pp. 611–613. Charles Scribner's Sons, New York.
- Dragoo, Don W.  
 1963 Mounds for the Dead. *Annals of Carnegie Museum* 37. Carnegie Museum, Pittsburgh, PA.
- Dragoo, Don W., and Charles F. Wray  
 1964 Hopewell Figurine Rediscovered. *American Antiquity* 30(2):195–199.
- Drake, Daniel  
 1815 *Natural and Statistical View, or Picture of Cincinnati and the Miami Country, Illustrated by Maps*. Looker and Wallace, Cincinnati.
- Driver, Harold E.  
 1969 *Indians of North America*. University of Chicago Press, Chicago, IL.
- Duncan, James R. and Carol Diaz-Granados  
 2000 Of Masks and Myths. *Midcontinental Journal of Archaeology* 25(1):1–26.
- Dupre, G., and P. Rey  
 1973 Reflections on the Pertinence of a Theory of the History of Exchange. *Economy and Society* 2: 131–163.
- Dwight, Thomas  
 1890 The Closure of the Cranial Sutures as a Sign of Age. *Boston Medical and Surgical Journal* 122: 389–392.
- Dye, David H.  
 1989 Exhibition Catalog: Introduction. In *The Southeastern Ceremonial Complex: Artifacts and Analysis—The Cottonlandia Conference*, edited by P. Galloway, pp. 321–382. University of Nebraska Press, Lincoln, NE.  
 2001 Southeastern Iconography. In *Choctaw Language and Culture: Chahta Anumpa*, edited by M. Haag and H. Willis, pp. 261–266. University of Oklahoma Press, Norman.  
 2004 Art, Ritual, and Chiefly Warfare in the Mississippian World. In *Hero, Hawk, and Open Hand: American Indian Art of the Ancient Midwest and South*, edited by R. F. Townsend and R. V. Sharp, pp. 191–25. The Art Institute of Chicago and Yale University Press, New Haven, CN.  
 2006 The Transformation of Mississippian Warfare: Four Case Studies from the Mid-south. In *The Archaeology of Warfare*, edited by Elizabeth N. Arkush and Mark W. Allen, pp. 101–147. University Press of Florida, Gainesville, FL.
- Eagle Feather  
 1978 The Sweatlodge and the Sacred Rite of Purification. In *Sundancing at Rosebud and Pine Ridge*, by Thomas E. Mails, pp. 87–94. Center for Western Studies, Sioux Falls, South Dakota.
- Earle, Timothy  
 1997 *How Chiefs Come To Power*. Stanford University Press, Stanford, CA.



- Eliade, Mircea  
1964 *Shamanism: Archaic Techniques of Ecstasy*. Princeton University Press, Princeton, NJ.
- Ellison, George  
1992 James Mooney and the Eastern Cherokees. In *History, Myths, and Sacred Formulas of the Cherokees* by James Mooney. Reprint ed. [1891, 1990] with biographical introduction by George Ellison, pp. 1–33. Bright Mountain Books, Asheville.
- Ember, Carol R., and Melvin Ember  
1981 *Anthropology*, third edition. Prentice-Hall, Inc., Englewood Cliffs, NJ.
- Ember, Melvin  
1974 Warfare, Sex Ratio, and Polygyny. *Ethnology* 13(2):197–206.
- Emerson, Thomas E.  
1989 Water, Serpents, and the Underworld: An Exploration into Cahokian Symbolism. In *The Southeastern Ceremonial Complex: Artifacts and Analysis: The Cottonlandia Conference*, edited by P. Galloway, pp. 45–92. University of Nebraska Press, Lincoln, NE.
- Emerson, Thomas E., Randall E. Hughes, Kenneth B. Farnsworth, Sarah U. Wissemann, and Mary R. Hynes  
2005 Tremper Mound, Hopewell Catlinite, and PIMA Technology. *Midcontinental Journal of Archaeology* 30(2):189–216.
- Emerson, Thomas E., Randall E. Hughes, Mary R. Hynes, and Sarah U. Wissemann  
2003 The Sourcing and Interpretation of Cahokia-Style Figurines in the Trans-Mississippi South and Southeast. *American Antiquity* 68(2):287–313.
- Emerson, Thomas E., Randall E. Hughes, Mary R. Hynes, Kenneth B. Farnsworth, and Sarah U. Wissemann  
2002 Hopewell Catlinite, Tremper Mound, and Pima Technology. Paper presented at the Annual Midwestern Archaeological Conference, Columbus, OH.
- Emerson, Thomas E., Brad Koldehoff, and Timothy R. Pauketat  
2000 Serpents, Female Deities, and Fertility Symbolism in the Early Cahokia Countryside. In *Mounds, Modoc, and Mesoamerica: Papers in Honor of Melvin L. Fowler*, edited by Steven R. Ahler, pp. 511–522. *Scientific Papers* 28. Illinois State Museum, Springfield.
- Emerson, Thomas E., and Dale L. McElrath  
1983 A Settlement-Subsistence Model of the Terminal Late Archaic Adaptation in the American Bottom, Illinois. In *Archaic Hunters and Gatherers in the American Midwest*, edited by J. L. Phillips and J. A. Brown, pp. 219–242. Academic Press, New York, NY.
- Escobar, Ticio  
2007 *Curse of Nemur: In Search of the Art, Myth, and Ritual of the Ishir*. University of Pittsburgh Press, Pittsburgh, PA.
- Fagan, Brian M.  
1995 *Ancient North America: The Archaeology of a Continent*. Thames and Hudson, New York, NY.
- Farnsworth, Kenneth B.  
2001 Documentation of the Human Burial and Mortuary Remains Recovered from Test Excavations at Naples-Russell Mound 8, Ray Norbut Conservation Area, Pike County, Illinois. Report on file with the Illinois Department of Transportation, the Illinois Department of Natural Resources, and the Historic Preservation Agency.
- 2004 *Early Hopewell Mound Explorations: The First Fifty Years in the Illinois River Valley*. Illinois Transportation Archaeological Research Program, *Studies in Archaeology* 3. University of Illinois at Urbana-Champaign, Urbana, IL.
- Farnsworth, Kenneth B., Thomas E. Berres, Randall E. Hughes, and Duane M. Moore  
2004 Illinois Platform Pipes and Hopewellian Exchange: A Mineralogical Study of Archaeological Remains. In *Aboriginal Ritual and Economy in the Eastern Woodlands: Essays in Memory of Howard Dalton Winters*, edited by A. M. Cantwell, L. A. Conrad, and J. E. Reyman, pp. 182–213. Illinois State Museum *Scientific Papers* 30.
- Faulkner, Charles H.  
1977 The Winter House: An Early Southeast Tradition. *Midcontinental Journal of Archaeology* 2:141–159.
- Fazekas, György, and Peter F. Kosa  
1978 *Forensic Fetal Osteology*. Akademiai Kiado, Budapest.
- Feest, Christian F.  
1978 Virginia Algonquians. In *Handbook of North American Indians*, vol. 15, *Northeast*, edited by B. G. Trigger, pp. 253–270. Smithsonian Institution Press, Washington, DC.
- 1986 *Indians of Northeastern North America. Iconography of Religions, Section 10: North America*, v.7. Institute of Religious Iconography, State University Groningen, E.J. Brill, Leiden.
- Feest, Johanna E. And Christian F. Feest  
1978 Ottawa. In *Handbook of North American Indians*, vol. 15: *Northeast*, edited by B. G. Trigger, pp. 772–786. Smithsonian Institution Press, Washington, DC.
- 1986 Indians of Northeastern North America. *Iconography of Religions, Section 10: North America*, v.7. Institute of Religious Iconography, State University Groningen, E.J. Brill, Leiden.
- Feinman, Gary  
2000 Dual-processual Theory and Social Formations in the Southwest. In *Alternative Leadership Strategies in the Prehispanic Southwest*, edited by B. J. Mills, pp. 207–224. University of Arizona Press, Tucson, AZ.
- Fenneman, Nevin M.  
1938 *Physiography of Eastern United States*. McGraw-Hill, New York, NY.
- Fenton, William N.  
1959 John Reed Swanton (1873–1958). *American Anthropologist* 61(4):663–668.

- 1978 Northern Iroquoian Culture Patterns. In *Handbook of North American Indians: Northeast*, vol. 15, edited by B. G. Trigger, pp. 296–321. Smithsonian Institution, Washington, DC.
- Fiedel, Stuart J.  
1992 *Prehistory of the Americas*, second edition. Cambridge University Press, Cambridge, UK.
- Field, Stephanie, Anne Goldberg, and Tina Lee  
2005 Gender, Status, and Ethnicity in the Scioto, Miami, and Northeastern Ohio Hopewellian Regions, as Evidenced by Mortuary Practices. In *Gathering Hopewell: Society, Ritual, and Ritual Interaction*, edited by C. Carr and D. T. Case, pp. 386–404. Kluwer Academic/Plenum Publishers, New York, NY.
- Firth, Raymond  
1951 *Elements of Social Organization*. Beacon Press, Boston.
- Fischer, Fred William  
1968 A Survey of the Archaeological Remains of Shawnee Lookout Park. Manuscript on file at the Dayton Society of Natural History, Dayton, OH, and the Cincinnati Museum of Natural History, Cincinnati, OH.  
1974 *Early and Middle Woodland Settlement, Subsistence, and Population in the Central Ohio Valley*. Doctoral dissertation, Department of Anthropology Washington University. St. Louis, MO.
- Fitzgerald, William, Ruth-Erika Romanowski, and Darlene Johnston  
1998 When a Sacred Site Might Not Be Considered Sacred: The Case of Hunter's Point, Georgian Bay, Ontario. In *Sacred Lands: Aboriginal World Views, Claims, and Conflicts*, edited by J. Oakes, R. Riewe, K. Kinew, and E. Maloney, pp. 173–188. *Occasional Publication* 43, Canadian Circumpolar Institute, University of Alberta, Calgary.
- Flannery, Kent V.  
1972 The Cultural Evolution of Civilizations. *Annual Review of Ecology and Systematics* 3:399–426.
- Fletcher, Alice C., and Francis La Flesche  
1911 The Omaha Tribe. *Twenty-seventh Annual Report of the Bureau of American Ethnology*. Washington, DC.
- Fletcher, Robert V., Terry L. Cameron, Bradley T. Lepper, Dee Anne Wymmer, and William Pickard  
1966 Serpent Mound: A Fort Ancient Icon? *Midcontinental Journal of Archaeology* 21(1):105–143.
- Fogelson, Raymond D., ed.  
2004 *Handbook of North American Indians: Southeast*, v.14. U.S. Government Printing Office, Washington.
- Ford, Richard I.  
1974 Northeastern Archaeology: Past and Future Directions. *Annual Review of Anthropology* 3:385–414.
- Ford, Richard I. (editor)  
1978 The Nature and Status of Ethnobotany. University of Michigan, Museum of Anthropology, *Anthropological Papers*, 67. Ann Arbor, MI.
- Fortier, Andrew C.  
1983 Settlement and Subsistence at the Go-Kart North Site: A Late Archaic Titterington Occupation in the American Bottom, Illinois. In *Archaic Hunters and Gatherers in the American Midwest*, edited by J. L. Phillips and J. A. Brown, pp. 243–260. Academic Press, New York, NY.
- Fowke, Gerard  
1902 *Archaeological History of Ohio*. Ohio Archaeological and Historical Society, Columbus, OH.
- Fowler, Melvin L.  
1959 The Early Woodland Period. In *Illinois Archaeology*, pp. 17–20. Illinois Archaeological Survey, *Bulletin* 1.  
2003a Robert L. Hall: An Intellectual Pilgrimage in American Anthropology. *Wisconsin Archaeologist* 84(1-2):3–8.
- Fox, William A.  
2004 Horned Panthers and Erie Associates. In *A Passion for the Past: Papers in Honour of James F. Pendergast*, edited by J. V. Wright and J.-L. Pilon, pp. 283–304. Canadian Museum of Civilization, Mercury Series, *Archaeology Paper* 164.
- Fox, William A. and J. Eldon Molto  
1994 The Shaman of Long Point. *Ontario Archaeology* 57:23–44.
- Frazer, James George  
1935 *The Golden Bough: A Study in Magic and Religion*, 3<sup>rd</sup> edition, 12 vol. MacMillan and Company, London, UK.
- Freeman, J. E.  
1969 The Millville Site: A Middle Woodland Village in Grant County, Wisconsin. *Wisconsin Archaeologist* 50:37–88.
- Fried, Morton  
1960 On the Evolution of Social Stratification and the State. In *Culture in History*, edited by S. Diamond, pp. 713–731. Columbia University Press, New York, NY.  
1967 *The Evolution of Political Society: An Essay in Political Anthropology*. Random House, New York, NY.  
1968 On the Concept of “Tribe” and “Tribal Society”. In *Essays on the Problem of Tribe*, edited by J. Helm. Proceedings of the American Ethnological Association, Seattle, WA.
- Friedman, Jonathan  
1975 Tribes, States, and Transformations. In *Marxist Analyses and Social Anthropology*, edited by M. Bloch. Malaby Press, London.
- Friedman, Jonathan, and Michael J. Rowlands  
1977 Notes toward an Epigenetic Model of the Evolution of a “Civilization”. In *The Evolution of Social Systems*, edited by J. Friedman and M. J. Rowlands, pp. 201–276. Duckworth, London.
- Fulton, R., and S. W. Anderson  
1992 The Amerindian “Man-Woman”: Gender, Liminality, and Cultural Continuity. *Current Anthropology* 33(5):603–610.

- Furst, Jill Leslie McKeever  
1995 *The Natural History of the Soul in Ancient Mexico*. Yale University Press, New Haven, CN.
- Gallatin, Albert  
1836 A Synopsis of the Indian Tribes within the United States East of the Rocky Mountains, and in the British and Russian Possessions in North America. *Archaeologia Americana [Transactions and Collections of the American Antiquarian Society]* 2:1–422.
- Galloway, Patricia K., ed.  
1989 *The Southeastern Ceremonial Complex: Artifacts and Analysis*. University of Nebraska Press, Lincoln, NE.
- Galloway, Patricia, and Clara Sue Kidwell  
2004 Choctaw in the East. In *Handbook of North American Indians: Southeast*, edited by R. D. Fogelson, pp. 499–519. Smithsonian Institution, Washington, DC.
- Gardner, Helen  
2005 *Gardner's Art through the Ages*. Harcourt Brace College Publishers, Fort Worth, TX.
- Gardner, Robert  
1964 *Dead Birds* (film). Film Study Center of the Peabody Museum at Harvard University, Cambridge, MA.
- Gearing, Fred  
1958 The Structural Poses of 18th Century Cherokee Villages. *American Anthropologist* 60:1148–1157.
- Geertz, Clifford  
1973 *The Interpretation of Cultures*. Basic Books, New York.
- Genheimer, Robert A  
2005 Millions and Millions of Flakes: Preliminary Results from the Barnyard Site, Stubbs Earthwork Complex. Paper presented at the 52nd annual meeting of the Midwest Archaeological Conference, Dayton, OH.
- Giddens, Anthony  
1984 *The Constitution of Society*. University of California Press, Berkeley, CA.
- Giesen, Myra  
1992 Summary of Age and Sex Data Collected on Turner and Madisonville Skeletons. Document on file with Paul Scullin, Department of Anthropology, Ohio State University, Columbus, OH.
- Gilbert B. M. and T. W. McKern  
1973 A Method for Aging the Female Os Pubis. *American Journal of Physical Anthropology* 38:31–38.
- Gill, Sam  
1982 *Native American Religions: An Introduction*. Wadsworth, Belmont, CA.
- Gill, Sam D., and Irene F. Sullivan  
1992 *Dictionary of Native American Mythology*. Oxford University Press, Oxford, UK.
- Gillespie, Susan D.  
2001 Personhood, Agency, and Mortuary Ritual: A Case Study from the Ancient Maya. *Journal of Anthropological Archaeology* 20: 73–112.
- 2002 Body and Soul among the Maya: Keeping the Spirits in Place. In *The Space and Place of Death*, edited by H. Silverman and D. B. Small, pp. 67–77. *Anthropological Papers of the American Anthropological Association*, 11.
- Goad, Sharon I.  
1978 *Exchange Networks in the Prehistoric Southeastern United States*. Doctoral dissertation, Department of Anthropology, University of Georgia, Athens, GA.
- 1979 Middle Woodland Exchange in the Prehistoric Southeastern United States. In *Hopewell Archaeology: The Chillicothe Conference*, edited by D. S. Brose and N. Greber, pp. 239–246. The Kent State University Press, Kent, OH.
- Goddard, Ives  
1978 Delaware. In *Handbook of North American Indians*, edited by B. G. Trigger, pp. 213–239. vol. 15 *Northeast*. Smithsonian Institution Press, Washington, DC.
- Goffman, Erving  
1959 *The Presentation of the Self in Everyday Life*. Doubleday, Garden City, NY.  
1969 *Strategic Interaction*. University of Pennsylvania Press, Philadelphia, PA.
- Goldstein, Lynne  
2003 Commentary: Robert L. Hall at the Edge of Knowledge. *Wisconsin Archaeologist* 84(1-2):261–264.
- Goodenough, Ward H.  
1965 Rethinking 'Status' and 'Role': Toward a General Model of the Cultural Organization of Social Relationships. In *The Relevance of Models for Social Anthropology*, edited by M. Gluckman and F. Eggan, pp. 1–24. Tavistock, London, UK.
- Goodman, Felicitas D.  
1990 *Where the Spirits Ride the Wind: Trance Journeys and Other Ecstatic Experiences*. Indiana University Press, Bloomington, IN.
- Goose, Denys H.  
1963 Dental measurement: An assessment of its value in anthropological studies. In Don Brothwell (ed.): *Dental Anthropology*. Pergamon Press, New York, pp. 125–148.
- Gordon, Robert B.  
1966 *Natural Vegetation Map of Ohio at the Time of the Earliest Land Surveys*. Ohio Biological Survey, Columbus.  
1969 The Natural Vegetation of Ohio in Pioneer Days. Ohio Biological Survey, *Bulletin, New Series* 3(2).
- Grant, Bruce  
1994 *Concise Encyclopedia of the American Indian*. Wings Books, New York.
- Graybill, Jeffrey Robert  
1982 *The Eastern Periphery of Fort Ancient (A.D. 1050–1650): A Diachronic Approach to Settlement Variability*. Doctoral dissertation, Department of Anthropology, University of Washington, Seattle, WA.



- Greber, N'omi  
 1976 *Within Ohio Hopewell: Analysis of Burial Patterns from Several Classic Sites*. Ph.D. dissertation, Case Western Reserve University, Cleveland, OH.
- 1979a Variations in the Social Structure of Ohio Hopewell Peoples. *Mid-Continental Journal of Archaeology* 4(1):35–78.
- 1979b A Comparative Study of Site Morphology and Burial Patterns at Edwin Harness Mound and Seip Mounds 1 and 2. In *Hopewell Archaeology: The Chillicothe Conference*, edited by D. S. Brose and N. Greber, pp. 27–38. The Kent State University Press, Kent, OH.
- 1983 *Recent Excavations at the Edwin Harness Mound, Liberty Works, Ross County, Ohio*. Midcontinental Journal of Archaeology, *Special Publication*, 5.
- 1991 A Study of Continuity and Contrast Between Central Scioto Adena and Hopewell Adena Sites. *West Virginia Archeologist* 43:1–26.
- 1995 Some Archaeological Localities Recorded in the Seip Earthworks and Dill Mounds Historical District. Report on file at Hopewell Culture National Historical Park, Chillicothe, OH.
- 1996 A Commentary on the Contexts and Contents of Large to Small Ohio Hopewell Deposits. In *A View from the Core: A Synthesis of Ohio Hopewell Archaeology*, edited by P. J. Pacheco, pp. 150–172. Kent State University Press, Kent, OH.
- 1997 Two Geometric Enclosures in the Paint Creek Valley: An Estimate of Possible Changes in Community Patterns through Time. In *Ohio Hopewell Community Organization*, edited by W. S. Dancy and P. J. Pacheco, pp. 207–229. Kent State University Press, Kent, OH.
- 1999 Combining Geophysics and Ground Truth at High Bank Earthworks, Ross County, Ohio. *The Ohio Archaeological Newsletter* 11(1):8–12
- 2000 Radiocarbon Dates, Listing of Twenty New Radiocarbon Dates from the Turner, Hopewell, Marietta, and Seip Earthworks. Distributed at the conference, “Perspectives on the Middle Woodland at the Millenium”, Pere Marquette State Park, IL, July.
- 2002 A Preliminary Comparison of 1997 and 2002 Limited Excavations in the Great Circle Wall, High Bank Works, Ross County, Ohio. *Hopewell Archaeology* 5(2):1–4.
- 2003 Chronological Relationships among Ohio Hopewell Sites: Few Dates and Much Complexity. In *Theory, Method, and Technique in Modern Archaeology*, edited by R. Jeske and D. Charles, pp. 88–113. Praeger, Westport CT.
- 2006 Enclosures and Communities in Ohio Hopewell: An Essay. In *Recreating Hopewell*, edited by D. K. Charles and J. E. Buikstra, pp. 74–105. University Press of Florida, Gainesville, FL.
- n.d. Excavation of the Great Circle Wall at High Bank Works: 1997 and 2002. Summary report at [http://cmnh.org/site/ResearchandCollections\\_Archaeology\\_Research\\_GeneralAudienceNontechnical\\_HighBankSite.aspx](http://cmnh.org/site/ResearchandCollections_Archaeology_Research_GeneralAudienceNontechnical_HighBankSite.aspx). November 2006.
- Greber, N'omi, and Katharine Ruhf  
 1989 *The Hopewell Site: A Contemporary Analysis Based on the Works of Charles C. Willoughby*. Westview Press, Boulder, CO.
- Greenman, Emerson F.  
 1934 *Guide to Serpent Mound*. Ohio Historical Society, Columbus, OH.
- Greenman, Emerson, and Robert Goslin  
 1930a Field Notes: Esch Mound 1. Document on file at the Ohio Historical Center, Columbus, OH (Accession #1176, Site 33 ER 1).
- 1930b Field Notes: Esch Mound 2. Document on file at the Ohio Historical Center, Columbus, OH (Accession #1176, Site 33 ER 1)
- Gremillon, Kristen J.  
 1990 Plant Remains from Ten Sites within Mammoth Cave National Park. In *Mammoth Cave National Park Archaeological Inventory Project Interim Report—1989 Investigations*, by G. Prentice, pp. 76–96. National Park Service, Southeast Archaeological Center, Tallahassee, FL.
- Gremillon, Kristen J., and Kristin D. Sobolik  
 1996 Dietary Variability among Prehistoric Forager-Farmers of Eastern North America. *Current Anthropology* 17(3):529–539.
- Griffin, James B.  
 1941 Additional Hopewell Materials from Illinois. Indiana Historical Society, *Prehistoric Research Series* 11:165–223. Indiana Historical Society, Indianapolis, IN
- 1943 *The Fort Ancient Aspect: Its Cultural and Chronological Position in Mississippi Valley Archaeology*. University of Michigan Press, Ann Arbor, MI.
- 1960 Climatic Change: A Contributory Cause of the Growth and Decline of Northern Hopewellian Culture. *The Wisconsin Archeologist* 41(2):21–33.
- 1965 Hopewell and the Dark Black Glass. *Michigan Archaeologist* 11(3-4):115–155.
- 1967 Eastern North American Archaeology: A summary. *Science* 156:175–191.
- 1970 Introduction. In *The Burial Complexes of the Knight and Norton Mounds in Illinois and Michigan*, by J. B. Griffin, R. E. Flanders, and P. F. Titterington, pp. 1–10. University of Michigan, Museum of Anthropology, *Memoir* 2.
- 1973 Hopewell Non-exchange of Obsidian. Paper presented at the Northwestern University Archaeological Research Program Lecture Series, Archaeology and the Natural Sciences, Kampsville, IL.
- 1978 Late Prehistory of the Ohio Valley. In *Handbook of North American Indians*, Vol. 15, *Northeast*, edited by B. G. Trigger, pp. 547–559. Smithsonian Institution, Washington, DC.
- Grim, John A.  
 1983 *The Shaman: Patterns of Siberian and Ojibway Healing*. University of Oklahoma Press, Norman, OK.

- Grinnell, George Bird  
1972 *The Cheyenne Indians*. 2 vols. University of Negraska Press, Lincoln, NE. Originally published in 1923 by Yale University Press, New Haven, CN.
- Grün, Rainer  
2006 Direct Dating of Human Fossils. *Yearbook of Physical Anthropology* 49:2–48.
- Guild Press  
1997 *The American Indian CD-ROM*. Guild Press of Indiana, Carmel. www.guildpress.com
- Guiteras-Holmes, Calixta  
1961 *Perils of the Soul: The World View of a Tzotzil Indian*. Free Press, New York.
- Haas, Mary R.  
1948 Review of “The Indians of the Southeastern United States” by John R. Swanton. *Journal of American Folklore* 61(239):89–91.
- Hajic, Edwin R.  
1987 Geoenvironmental Context for Archeological Sites in the Lower Illinois River Valley. Center for American Archeology, Contract Archeology Program, *Report of Investigations* 184.  
1990 *Late Pleistocene and Holocene Landscape Evolution, Depositional Subsystems, and Stratigraphy in the Lower Illinois River Valley and Adjacent Central Mississippi River Valley*. Doctoral dissertation, Department of Geology, University of Illinois, Urbana, IL.  
2000 Landform Sediment Assemblage (LSA) Units in the Illinois River Valley and the Lower Des Plaines River Valley, Volumes I, II. Illinois State Museum Research and Collections Center, Quaternary Studies Program, *Technical Report* No. 99-1255-16, Springfield.
- Hale, Everett E.  
1980 Archaeological Survey Report: Phase III, LIC.79-12.55. Report submitted to Ericksson Engineering Limited, on file at the Ohio Historical Society, Columbus, OH.
- Halifax, Joan  
1979 *Shamanic Voices: A Survey of Visionary Narratives*. E. P. Dutton, New York, NY.
- Hall, Robert L.  
1973 An Interpretation of the Two Climax Model of Illinois Prehistory. Paper presented at the 9th International Congress of Anthropological and Ethnological Sciences, Chicago.  
1976a Soul Release as an Hypothesis for Explaining Perforated Long Bones and Crania in Great Lakes Area Prehistory. Paper presented at the annual meeting of the Society for American Archaeology, St. Louis, MO. May.  
1976b Ghosts, Water Barriers, Corn, and Sacred Enclosures in the Eastern Woodlands. *American Antiquity* 41(3):360–364.  
1977 An Anthropocentric Perspective for Eastern United States Prehistory. *American Antiquity* 42(4):499–518.
- 1979 In Search of the Ideology of the Adena-Hopewell Climax. In *Hopewell Archaeology: The Chillicothe Conference*, edited by D. S. Brose and N. Greber, pp. 258–265. The Kent State University Press, Kent, OH.
- 1980 An Interpretation of the Two-Climax Model of Illinois Prehistory. In *Early Native Americans: Prehistoric Demography, Economy, and Technology*, edited by D. Broman, pp. 401–462. Mouton, The Hague.
- 1983a The Evolution of the Calumet-Pipe. In *Prairie Archaeology: Papers in Honor of David A. Baerreis*, edited by G. Gibbon, pp. 37–52. University of Minnesota, *Special Publications in Anthropology* 3.  
1983b A Pan-continental Perspective on Red Ocher and Glacial Kame Ceremonialism. In *Lulu Punctated: Essays in Honor of George Irving Quimby*, ed. by R. C. Dunnell and D. K. Grayson, pp. 74–107. University of Michigan, Museum of Anthropology, *Anthropological Papers* 72.
- 1987 Calumet Ceremonialism, Mourning Ritual, and Mechanisms of Inter-tribal Trade. In *Mirror and Metaphor: Material and Social Constructions of Reality*, edited by D. W. Ingersoll and G. Bronitski, pp. 29–43. University Press of American, Lanham
- 1989 The Cultural Background of Mississippian Symbolism. In *The Southeastern Ceremonial Complex: Artifacts and Analysis*, edited by P. Galloway, pp. 239–278. University of Nebraska Press, Lincoln, NE.
- 1997 *An Archaeology of the Soul: North American Indian Beliefs and Ritual*. University of Illinois Press, Urbana, IL.
- 2000 Sacrificed Foursomes and Green Corn Ceremonialism. In *Mounds, Modoc, and Mesoamerica: Papers in Honor of Melvin L. Fowler*, edited by Steven R. Ahler, pp. 245–253. Scientific Papers 28, Illinois State Museum, Springfield.
- 2006 The Enigmatic Copper Cutout from Bedford Mound 8. In *Recreating Hopewell*, edited by D. K. Charles and J. E. Buikstra, pp. 464–474. University Press of Florida, Gainesville, FL.
- Hallowell, A. Irving  
1940 Spirits of the Dead in Saulteaux Life and Thought. *Journal of the Royal Anthropological Institute* 70: 29–51.  
1960 Ojibwa Ontology, Behavior, and World View. In *Culture in History: Essays in Honor of Paul Radin*, edited by S. Diamond, pp. 19–52. Columbia University Press, New York, NY.  
1977 Cultural Factors in Spatial Orientation. In *Symbolic Anthropology: A Reader in the Study of Symbols and Meanings*, edited by J. L. Dolgin, D. S. Kemnitzer, and D. M. Schneider, pp. 131–150. Columbia University Press, New York, NY.
- Hamell, George R.  
1983 Trading Metaphors: The Magic of Beads, Another Perspective upon Indian-European Contact

- in Northeastern North America. In *Proceedings of the 1982 Glass Trade Bead Conference*, edited by Charles F. Hayes II, pp. 5–28. *Research Records* 16. Rochester Museum and Science Center, Rochester.
- 1986/1987 Strawberries, Floating Islands and Rabbit Captains: Mythical Realities and European Contact in the Northeast during the Sixteenth and Seventeenth Centuries. *Journal of Canadian Studies* 21(4): 72–94.
- 1987 Mythical Realities and European Contact in the Northeast during the Sixteenth and Seventeenth Centuries. *Man in the Northeast* 33:63–87.
- 1998 Long-tail: The Panther in Huron-Wyandot and Seneca Myth, Ritual, and Material Culture. In *Icons of Power: Feline Symbolism in the Americas*, edited by Nicholas J. Saunders, pp. 258–291. Routledge, London.
- Hansen, Michael C.  
1987 The Teays River. *Ohio Geology Newsletter*, Summer issue. Division of Geological Survey, Columbus, OH.  
1994 Return to Sunken Mountain: The Serpent Mound Cryptoexplosion Structure. *Ohio Geology*, Winter issue. Division of Geological Survey, Columbus, OH.
- Hanson, N. R.  
1972 *Patterns of Discovery*. Cambridge University Press, Cambridge, UK.
- Harding, Anne D. and Patricia Bolling, eds.  
1938 *Bibliography of Articles and Papers on North American Indian Art*. Department of the Interior, Indian Arts and Crafts Board, U. S. Government Printing Office, Washington.
- Harding, R. M.  
1990 Modern European Cranial Variables and Blood Polymorphisms Show Comparable Spatial Patterns. *Human Biology* 62:733–745.
- Harn, Alan D.  
1971 An Archaeological Survey of the American Bottoms and Wood River Terrace, Part 2. Illinois State Museum, *Reports of Investigation*, 21:19–39.
- Harner, Michael  
1980 *The Way of the Shaman: A Guide to Power and Healing*. Harper & Row, San Francisco.  
1988 What Is a Shaman? In *Shaman's Path: Healing, Personal Growth, and Empowerment*, edited by G. Doore, pp. 7–15. Shambhala, Boston, MA.
- Hartwig, F., and B. E. Dearing  
1979 *Exploratory Data Analysis*. Sage Publications, Beverly Hills, CA.
- Hassen, H. and Kenneth B. Farnsworth  
1987 The Bullseye Site: A Floodplain Archaic Mortuary Site in the Lower Illinois River Valley. *Reports of Investigation*, Illinois State Museum, Springfield, IL.
- Hatch, James W., Joseph W. Michels, Christopher M. Stevenson, Barry E. Scheetz, and Richard A. Geidel  
1990 Hopewell Obsidian Studies: Behavioral Implications of Recent Sourcing and Dating Research. *American Antiquity* 55(3):461–479.
- Hauser, Raymond  
2000 The Berdache and the Illinois Indian Tribe during the Last Half of the 17<sup>th</sup> Century. In *American Encounters: Natives and Newcomers from European Contact to Indian Removal, 1500–1850*. edited by P. C. Mancall and J. H. Merrell, pp. 119–136. Routledge, New York.
- Hawkes, Jacqueline  
1968 The Proper Study of Mankind. *Antiquity* 42:255–262.
- Hawkey, Diane E.  
1988 Use of Upper Extremity Entheosopathies to Indicate Habitual Activity Patterns. Master's thesis, Department of Anthropology, Arizona State University, Tempe, AZ.
- Hawkey, Diane E., and Charles F. Merbs  
1995 Activity-Induced Musculoskeletal Stress Markers (MSM) and Subsistence Strategy Changes among Ancient Hudson Bay Eskimo. *International Journal of Osteoarchaeology* 5:324–338.
- Hawkins, Benjamin and William B. Hodgson  
1848 *A Sketch of Creek Country in 1798 and 1799, with an Introduction and Historic Sketch of the Creek Confederacy*. Georgia Historical Society Collections 3(1):1–88.
- Hayden, Brian  
2001 Richman, Poorman, Beggarman, Chief: The Dynamics of Social Inequity. In *Archaeology at the Millennium: A Sourcebook*, edited by G. Feinman and T. D. Price, pp. 231–272.
- Hays, Christopher Tinsley  
1995 *Adena Mortuary Patterns and Ritual Cycles in the Upper Scioto Valley, Ohio*. Doctoral dissertation, Department of Anthropology, State University of New York, Binghamton, NY.
- Haywood, John  
1823 *The Natural and Aboriginal History of Tennessee*. George Wilson, Nashville.
- Hedges, R. E. M., J. A. Lee-Thorp, and N. C. Tuross  
1995 Is Tooth Enamel Carbonate Suitable Material for Radiocarbon Dating? *Radiocarbon* 37(2):285–290.
- Heidenreich, Conrad E.  
1978 Huron. In *Handbook of North American Indians*, edited by B. G. Trigger, pp. 368–388. vol. 15: *Northeast*. Smithsonian Institution, Washington, DC.
- Heilman, James M. and Lynn M. Mahoney  
1996 The Purdom Mound Group: The Dayton Museum of Natural History's Excavation and a Synopsis of the Excavations of Adams and Bailey. In *A View from the Core: A Synthesis of Ohio Hopewell Archaeology*, edited by P. J. Pacheco, pp. 286–301. The Ohio Archaeological Council, Inc., Columbus, OH.
- Helm, June, (editor).  
1981 *Handbook of North American Indians, vol. 6: Subarctic*. U.S. Government Printing Office, Washington.
- Helms, Mary  
1976 *Ancient Panama: Chiefs in Search of Power*. University of Texas Press, Austin.

- 1988 *Ulysses' Sail: An Ethnographic Odyssey of Power, Knowledge, and Geographic Distance*. Princeton University Press, Princeton, NJ.
- 1993 *Craft and Kingly Ideal*. University of Texas Press, Austin, TX.
- Henderson, John G.  
1884 Aboriginal Remains Near Naples, Ill. *Annual Report to the Board of Regents of the Smithsonian Institution for the Year 1882*, pp. 686–721. U.S. Government Printing Office, Washington, DC.
- Henricksen, Harry C.  
1965 Utica Hopewell, a Study of Early Hopewellian Occupation in the Illinois River Valley. In *Middle Woodland Sites in Illinois*, edited by E. A. Bluhm, pp. 1–67. Illinois Archaeological Survey, *Bulletin* 5. Hewitt, J. N. B.
- 1889 New Fire among the Iroquois. *American Anthropologist* 2.4(October 1889):319.
- 1894 The Iroquoian Concept of the Soul. *Journal of American Folk-Lore* 7:107–116.
- 1903 Iroquoian Cosmology (Part I). *Twenty-First Annual Report of the Bureau of American Ethnology*, pp. 127–339. Washington, DC.
- Hickerson, Harold  
1960 The Feast of the Dead among the Seventeenth Century Algonkians of the Upper Great Lakes. *American Anthropologist* 60:81–107.
- Hillson Simon  
1996 *Dental Anthropology*. Cambridge University Press, Cambridge, UK.
- Hinsley, Curtis M., Jr.  
1981 *Savages and Scientists: The Smithsonian Institution and the Development of American Anthropology, 1846–1910*. Smithsonian Institution Press, Washington.
- Hintze, Jerry L.  
1998 *NCSS 2000 Statistical System for Windows*. Computer Software. Kaysville, Utah: Number Cruncher Statistical Systems.
- Hively, R., and R. Horn  
1982 Geometry and Astronomy in Prehistoric Ohio. *Archaeoastronomy* 4:S1–S20. Supplement to Vol 13. of *Journal for the History of Astronomy*.
- 1984 Hopewellian Geometry and Astronomy at High Bank. *Archaeoastronomy* 7:S85–S100. Supplement to *Journal for the History of Astronomy*, Vol. 15.
- Hodder, Ian  
1982 *Symbols in Action: Ethnoarchaeological Studies of Material Culture*. Cambridge University Press, Cambridge, UK.
- 2000 Agency and Individuals in Long-term Processes. In *Agency in Archaeology*, edited by M.-A. Dobres and J. E. Robb, pp. 21–33. Routledge, London, UK.
- Hodder, Ian (editor)  
1987 *Archaeology as Long-Term History*. Cambridge University Press, Cambridge, UK.
- Hodell, D. A., R. L. Quinn, M. Brenner, and G. Kamenov  
2004 Spatial Variation of Strontium Isotopes ( $^{87}\text{Sr}/^{86}\text{Sr}$ ) in the Maya Region: A Tool for Tracking Ancient Human Migration. *Journal of Archaeological Science* 31:585–601.
- Hodge, Frederick W., ed.  
1907–1910 Handbook of American Indians North of Mexico. Bureau of American Ethnology *Bulletin* 30. U.S. Government Printing Office, Washington. 2 vols. [CD129 ©2000 Quintin Publications, Pawtucket]
- Hoebel, E. Adamson  
1966 *Anthropology: The Study of Man*. McGraw-Hill, New York, NY.
- Hoffman, Darla S.  
1997 From the Southeast to Fort Ancient: A Survey of Shell Gorgets in West Virginia. *West Virginia Archeologist* 49(1&2):1–40.
- Hoffman, Walter James  
1888 Pictography and Shamanic Rites of the Ojibwa. *American Anthropologist* 1:209–229.
- 1891 The Mide'wiwin or "Grand Medicine Society" of the Ojibwa. In *7th Annual Report of the Bureau of American Ethnology for the Years 1885–1886*, pp. 143–300. Washington, DC.
- 1896 The Menomoni Indians. In *14th Annual Report of the Bureau of American Ethnology for the Years 1892–1893*, pp. 11–328. Washington, DC.
- Hogarth, A. C.  
1972 Common Sense in Archaeology. *Antiquity* 46:301–304.
- Hollimon, Sandra E.  
2001 The Gendered Peopling of North America: Addressing the Antiquity of Systems of Multiple Genders. In *the Archaeology of Shamanism*, edited by N. Price, pp. 123–124. Routledge, London.
- Holmes, William H.  
1883 Art in Shell of the Ancient Americans. Bureau of American Ethnology, *Second Annual Report*, pp. 185–305. Washington, DC.
- 1907 Games of the North American Indians. *Twenty-fourth Annual Report of the Bureau of American Ethnology to the Smithsonian Institution, 1902–1903*.
- Holzinger, Charles H.  
1961 Some Observations on the Persistence of Aboriginal Cherokee Personality Traits. In *Symposium on Cherokee and Iroquois Culture*, edited by W. N. Fenton and J. Gulick, pp. 229–237. Bureau of American Ethnology, *Bulletin* 180. United States Government Printing Office, Washington, DC.
- Hooton, Earnest A., and Charles C. Willoughby  
1920 Indian Village Site and Cemetery near Madisonville, Ohio. Harvard University, Peabody Museum of American Archaeology, *Papers* 8(1). Cambridge, MA.
- Howard, James H.  
1960 When They Worship the Underwater Panther: A Prairie Potawatomi Bundle Ceremony. *Southwestern Journal of Anthropology* 16:217–224.
- 1980 Birch Bark and Paper Cutouts from the Northern Woodlands and Prairie Border. *American Indian Art Magazine* 5(4):54–61, 86–87.



- 1981 *Shawnee!: The Ceremonialism of a Native Indian Tribe and Its Cultural Background*. Ohio University Press, Athens, OH.
- Hudak, Curtis M., and Edwin R. Hajic  
1999 Landscape Suitability Models for Geologically Buried Precontact Cultural Resources. In *A Predictive Model of Precontact Archaeological Site Locations for the State of Minnesota*, edited by J. G. Hudak, E. Hobbs, A. Brooks, C. A. Sersland, and C. Phillips. Minnesota Department of Transportation, St. Paul, MN. CD-ROM Report and GIS ArcView coverages.
- Hudson, Charles  
1976 *The Southeastern Indians*. University of Tennessee Press, Knoxville, TN.
- 1984 Elements of Southeastern Indian Religion. *Iconography of Religions, Section 10: North America*, v.1. Institute of Religious Iconography, State University Groningen, E.J. Brill, Leiden.
- 2000 Reply to Mary Churchill. *American Indian Quarterly* 24(3):494–502.
- Hudson, Charles M. (editor)  
1979 *Black Drink: A Native American Tea*. University of Georgia Press, Athens, GA.
- Hughes, Randall E., Thomas E. Berres, D. M. Moore, and Kenneth B. Farnsworth  
1998 Revision of Hopewellian Trading Patterns in Midwestern North America Based on Mineralogical Sourcing. *Geoarchaeology: An International Journal* 13(7):709–729.
- Hughes, Richard E.  
2006 The Sources of Hopewell Obsidian: Forty Years after Griffin. In *Recreating Hopewell*, edited by D. K. Charles and J. E. Buikstra, pp. 361–375. University Press of Florida, Gainesville, FL.
- Hultkrantz, Aoke  
1953 *Conceptions of the Soul among North American Indians: A Study in Religious Ethnology*. Monograph Series 1. Ethnographical Museum of Sweden (Statens Etnografiska Museum), Stockholm, Sweden.
- 1973 *Prairie and Plains Indians. Iconography of Religions, Section 10: North America*, v.2. Institute of Religious Iconography, State University Groningen, E.J. Brill, Leiden.
- 1987 *Native Religions of North America: The Power of Visions and Fertility*. Harper and Row, Publishers, San Francisco, CA.
- Human Relation Area Files  
1997 *HRAF Collection of Ethnography (Electronic Resource): A World of Cultures at Your Fingertips*. Yale University, New Haven. [www.yale.edu/hraf/](http://www.yale.edu/hraf/)
- Huntington, Richard, and Peter Metcalf  
1979 *Celebrations of Death*. Cambridge University Press, Cambridge, UK.
- Igarashi, Yuriko, Kagumi Uesu, Tetsuaki Wakebe, and Eisaku Kanazawa  
2005 New Method for Estimation of Adult Skeletal Age at Death from the Morphology of the Auricular Surface of the Ilium. *American Journal of Physical Anthropology* 128(2):324–339.
- Ingerman, Sandra  
1991 *Soul Retrieval: Mending the Fragmented Self*. Harper Collins Publishers, New York, NY.
- Insoll, Timothy  
2004 *Archaeology, Ritual, Religion*. Routledge, New York.
- Işcan, Mehemet Y.  
1989 Assessment of Age at Death in the Human Skeleton. In *Age Markers in the Human Skeleton*, edited by Mehemet Y Işcan, pp. 5–18. Charles C. Thomas, Springfield, IL.
- Ivanov, S. V.  
1978 Some Aspects of the Study of Siberian Shamanism. In *Shamanism in Siberia*, edited by V. Dioszegi and M. Hoppal, and translated by S. Simon, pp. 19–58. Akademiai, Budapest.
- Jacks Mary  
1992 Paleodemography: Problems and Techniques. In *Skeletal Biology of Past Peoples: Research Methods*, edited by Shelley R. Saunders and M. Anne Katzenberg, pp. 189–224. Wiley-Liss, New York, NY.
- 2000 Building the Bases for Paleodemographic Analysis: Adult Age Determination. In *Biological Anthropology of the Human Skeleton*, edited by A Katzenberg and S Saunders. Wiley-Liss, New York, NY .
- Jefferson, Thomas  
1788 Notes on the State of Virginia. Prichard & Hall, Philadelphia.
- Jeffries, Richard W., and B. Mark Lynch  
1983 Dimensions of Middle Archaic Cultural Adaptation at the Black Earth Site, Saline County, Illinois. In *Archaic Hunters and Gatherers in the American Midwest*, edited by J. L. Phillips and J. A. Brown, pp. 299–322. Academic Press, New York, NY.
- Jennings, Jesse D. (editor)  
1978 *Ancient Native Americans*. W. H. Freeman and Company, San Francisco, CA.
- Johnson, Gregory  
1982 Organizational Structure and Scalar Stress. In *Theory and Explanation in Archaeology*, edited by C. Renfrew, M. Rowlands, and B. Seagraves, pp. 389–421. Academic Press, New York, NY.
- Johnston, Cheryl A.  
1995 Age and Sex Data for Hopewell Inhumations from the Ohio Historical Center. Document on file at the Ohio Historical Center, Columbus, Ohio.
- 1997a Age and Sex Data for Inhumations from the Ater Site. Document on file at the Ohio Historical Center, Columbus, OH.
- 1997b Age and Sex Data for Skeletons from the Hopewell Site. Document on file at the Ohio Historical Center, Columbus, OH.
- 1997c Age and Sex Assessments for Inhumations from the Seip Site. Document on file at the Ohio Historical Center, Columbus, OH.

- 1997d Age and Sex Assessments for Inhumations from the Seip, Ater, and Harness Sites. Document on file at the Ohio Historical Center, Columbus, Ohio.
- 2002 Culturally Modified Human Remains from the Hopewell Mound Group. Doctoral dissertation, The Ohio State University. Columbus, OH.
- Johnston, Cheryl A., Stephen Nawrocki, Christopher Schmidt, and Matthew Williamson  
1997 *An Interregional Comparison of Culturally-Modified Hopewellian Human Remains*. Paper presented at the annual meeting of the Society for American Archaeology, Nashville, TN. April.
- Johnston, Francis E. and L. O. Zimmer  
1989 Assessment of Growth and Age in the Immature Skeleton. In *Reconstruction of Life from the Skeleton*, edited by M. Y. Işcan and K. A. R. Kennedy, pp. 11–21. Alan R. Liss, New York, NY.
- Judd, Neil M.  
1967 *The Bureau of American Ethnology: A Partial History*. University of Oklahoma Press, Norman.
- Katz, Daryl and Judy M. Suchey  
1986 Age Determination of the Male Os Pubis. *American Journal of Physical Anthropology* 69: 427–435.
- Katzenberg, Mary Anne  
2000 Stable Isotope Analysis: A Tool for Studying Past Diet, Demography, and Life History. In *Biological Anthropology of the Human Skeleton*, edited by M. A. Katzenberg and S. R. Saunders, pp. 305–328. Wiley-Liss, New York.
- Keene, Arthur S.  
1981 *Prehistoric Foraging in a Temperate Forest*. Academic Press, New York.
- Keesing, Roger M.  
1975 *Kin Groups and Social Structure*. Holt, Rinehart, and Winston, New York.
- Kehoe, Alice Beck  
1989 *The Ghost Dance: Ethnohistory and Revitalization*. Holt, Rinehart, and Winston, Fort Worth, TX.
- Kellar, James H.  
1979 The Mann Site and “Hopewell” in the Lower Wabash-Ohio Valley. In *The Chillicothe Conference*, edited by D. S. Brose and N. Greber, pp. 100–107. The Kent State University Press, Kent, OH.
- Keller, Cynthia, and Christopher Carr  
2005 Gender, Role, Prestige, and Ritual Interaction across the Ohio, Mann, and Havana Hopewellian Regions, as Evidenced by Ceramic Figurines. In *Gathering Hopewell: Society, Ritual, and Ritual Interaction*, edited by C. Carr and D. T. Case, pp. 428–460. Kluwer Academic/Plenum Publishers, New York, NY.
- Kempton, John P., and Richard P. Goldthwait  
1959 Glacial Outwash Terraces of the Hocking and Scioto River Valleys, Ohio. *Ohio Journal of Science* 59:135–151.
- King, Duane H.  
1982 James Mooney, Ethnologist. *Journal of Cherokee Studies* 7(1):4–9.
- King, Jason L., Jane E. Buikstra, and Douglas K. Charles  
n.d. New Calibrated Radiocarbon Dates from Some Lower Illinois Valley Mounds. Manuscript on file with the author.
- Kinietz, W. Vernon  
1940 The Indians of the Westgern Great Lakes, 1615–1760. University of Michigan, Museum of Anthropology, *Occasional Contributions* 10. Ann Arbor, MI.  
1947 *Chippewa Village: The Story of Katikitegon*. Cranbrook Press, Bloomfield Hills, MI.
- Knight, Vernon J., Jr.  
1986 The Institutional Organization of Mississippian Religion. *American Antiquity* 51(4): 675–687.  
1989 Symbolism of Mississippian Mounds. In *Powhatan's Mantle*, edited by P. Wood, G. Waselkov and M. T. Hatley, pp. 279–291. University of Nebraska Press, Lincoln, NE.  
2004 Ceremonialism until 1500. In *Handbook of North American Indians: Southeast*, edited by R. D. Fogelson, pp. 734–741. Smithsonian Institution, Washington, DC.
- Knight, Vernon J. Jr., James A. Brown, and George E. Lankford  
2001 On the Subject Matter of the Southeastern Ceremonial Complex Art. *Southeastern Archaeology* 20(2):129–141.
- Knudson, Kelly J., T. Douglas Price, Jane E. Buikstra, and Deborah E. Blom  
2004 The Use of Strontium Isotope Analysis to Investigate Tiwanaku Migration and Mortuary Ritual in Bolivia and Peru. *Archaeometry* 46:5–18.
- Kohl, J. G.  
1860 *Kitchi-Gami*. Chapman and Hall, London.
- Konigsberg, Lyle W.  
1985 Demography and Mortuary Practice at Seip Mound One. *Mid-Continental Journal of Archaeology* 10(1):123–148.
- Konigsberg, Lyle W., and Jane E. Buikstra  
1995 Regional Approaches to the Investigation of Past Human Biocultural Structure. In *Regional Approaches to Mortuary Analysis*, ed. by L. E. Beck, pp. 191–219. Plenum Press, New York.
- Konigsberg, Lyle W. and Susan R. Frankenberg  
1993 Missing Skulls and Missing Data in Ohio Hopewell. 58<sup>th</sup> Paper presented at the annual meeting of the Society for American Archaeology. St. Louis, MO.
- Konigsberg, Lyle W., Susan R. Frankenberg, and Robert B. Walker  
1997 Regress What on What? Paleodemographic Age Estimation as a Calibration Problem. In *Integrating Archaeological Demography: Multidisciplinary Approaches to Prehistoric Population*, edited by R. R. Paine, pp. 64–88. Center for Archaeological Investigations, *Occasional Paper*, No. 24. Southern Illinois University at Carbondale, Carbondale, IL.

- Konigsberg, Lyle W., and Stephen D. Ousley  
1995 Multivariate Quantitative Genetics of Anthropometric Traits from the Boas Data. *Human Biology* 67:481–498.
- Kozerak, Sue Ellen  
1987 A Hopewellian Homestead in the Ohio River Valley. Master's thesis, Department of Anthropology, University of Cincinnati, Cincinnati, OH.  
1997 Determining Sedentism in the Archaeological Record. In *Ohio Hopewell Community Organization*, edited by W. S. Dancy and P. J. Pacheco, pp. 131–152. Kent State University Press, Kent, OH.
- Kroeber, Alfred L.  
1940 The Work of John R. Swanton. *Smithsonian Miscellaneous Collections* 100:1–9.
- Krogman, Wilton Marion  
1935 Life Histories Recorded in Skeletons. *American Anthropologist* 37:92–103.  
1939 A Guide to the Identification of Human Skeletal Material. *FBI Law Enforcement Bulletin* 8: 1–29.
- Krogman Wilton M., and Mehemet Y. İşcan  
1986 *The Human Skeleton in Forensic Medicine*. Charles C. Thomas, Springfield, IL.
- Kurath, Gertrude P.  
1964 Iroquois Music and Dance: Ceremonial Arts of Two Seneca Longhouses. Bureau of American Ethnology, *Bulletin* 187. Smithsonian Institution, Washington, DC.
- Lahontan, Louis Armand  
1905 *New Voyages to North America*. 2 vols. A. C. McClurg, Chicago, IL (orig. 1703).
- Lakoff, George, and Mark Johnson  
1980 *Metaphors We Live By*. University of Chicago Press, Chicago, IL.
- Lane, Rebecca A., and Audrey J. Sublett  
1972 Osteology of Social Organization: Residence Pattern. *American Antiquity* 37(2):186–201.
- Lankford, George E., III.  
1975 *The Tree and the Frog: An Exploration in Strati-graphic Folklore*. Doctoral dissertation, the Folklore Institute, Indiana University, Bloomington, IN.  
1987 *Native American Legends: Southeastern Legends: Tales from the Natchez, Caddo, Biloxi, Chickasaw, and Other Nations*. August House, Little Rock, AR.  
1992 Red and White: Some Reflections on Southeastern Symbolism. *Southeastern Folklore* 50(1):53–80.  
1995 Introduction. In *Myths and Tales of the South-eastern Indians* by John Reed Swanton. Reprint ed. [1929] with an introduction by George E. Lankford, pp. xi–xix. University of Oklahoma Press, Norman.  
2004 World on a String: Some Cosmological Components of the Southeastern Ceremonial Complex. In *Hero, Hawk, and Open Hand: American Indian Art of the Ancient Midwest and South*, edited by R. F. Townsend and R.V. Sharp, pp. 207–217. The Art Institute of Chicago and Yale University Press, Chicago, IL, and New Haven, CT.
- 2007 Some Cosmological Motifs in the Southeastern Ceremonial Complex. In *Ancient Objects and Sacred Realms: Interpretations of Mississippian Iconography*, edited by F. K. Reilly III and J. F. Garber, pp. 8–38. University of Texas Press, Austin.
- Larsen, Clark Spencer  
1997 *Bioarchaeology: Interpreting Behavior from the Human Skeleton*. Cambridge University Press, Cambridge, UK.
- Lati, and J. Hopkins  
1985 *Death, Intermediate State, and Rebirth in Tibetan Buddhism*. Snow Lion, Ithica, NY.
- Lee, Alfred M., and Kent D. Vickery  
1972 Salvage Excavations at the Headquarters Site, A Middle Woodland Village Burial Area in Hamilton. *Ohio Archaeologist* 22(1):3–11.
- Leigh, Steven R., Douglas K. Charles, and Donald G. Albertson  
1988 Middle Woodland Component. In *The Archaic and Woodland Cemeteries at the Elizabeth Site in the Lower Illinois Valley*, edited by D. K. Charles, S. R., S. R. Leigh, and J. E. Buikstra, pp. 41–84. Kampsville Archaeological Center, *Research Series*, 7. Center for American Archaeology, Kampsville, IL
- Lepper, Brad  
1996 The Newark Earthworks and the Geometric Enclosures of the Scioto Valley: Connections and Conjectures. In *A View from the Core: A Synthesis of Ohio Hopewell Archaeology*, edited by P. J. Pacheco, pp. 224–241. The Ohio Archaeological Council, Inc. Columbus, OH.  
1998 The Archaeology of the Newark Earthworks. In *Earthen Enclosures of the Eastern Woodlands*, edited by R. C. Mainfort, Jr., and L. P. Sullivan, pp. 114–134. University of Florida Press, Gainesville, FL.  
2003 Alligator Mound: Geoarchaeological and Iconographical Interpretations of a Late Prehistoric Effigy Mound in Central Ohio, USA. *Cambridge Archaeological Journal* 13(2):147–167.  
2004 The Newark Earthworks: Monumental Geometry and Astronomy at a Hopewellian Pilgrimage Center. In *Hero, Hawk, and Open Hand: American Indian Art of the Ancient Midwest and South*, edited by R. F. Townsend and R.V. Sharp, pp. 73–81. The Art Institute of Chicago and Yale University Press, Chicago, IL, and New Haven, CT.  
2005 The Ritual Landscape of the Newark Earthwork and the Raccoon Creek Valley. Paper on file with the author, Ohio Historical Society, Columbus.  
2006 The Great Hopewell Road and the Role of the Pilgrimage in the Hopewell Interaction Sphere. In *Recreating Hopewell*, edited by D. K. Charles and J. E. Buikstra, pp. 122–133. University Press of Florida, Gainesville, FL.
- Lepper, Bradley T. and Tod A. Frolking  
2003 Alligator Mound: Geoarchaeological and Iconographical Interpretations of a Late Prehistoric Effigy

- Mound in Central Ohio, USA. *Cambridge Archaeological Journal* 13(2):147–167.
- Lewis, I. M.  
1971 *Ecstatic Religions: An Anthropological Study of Spirit Possession and Shamanism*. Penguin Books, Middlesex, UK.
- Lewis-Williams, J. D., and T. A. Dowson  
1988 The Sign of All Times. *Current Anthropology* 29(2):201–213.
- Linton, Ralph  
1936 *The Study of Man*. Appleton-Century, New York, NY.
- Lloyd, Timothy  
1998 Shedding Light on Small Mounds Lost in the Shadows of the Great Mound at the Hopewell Site. *West Virginia Archeologist* 50(1&2):1–13.  
2000 Patterned Variability among Burial Mounds at the Hopewell site. Paper presented at the annual meeting of the Society for American Archaeology.
- Lonergan, David  
1999 John Reed Swanton. In *American National Biography*, v. 21, edited by John A. Garraty and Mark C. Carnes, pp. 192–193. Oxford University Press, New York.
- Lovejoy, C. Owen, Richard S. Meindl, Robert P. Mensforth, and Thomas J. Barton  
1985a Multifactorial Determination of Skeletal Age at Death: A Method and Blind Tests of Its Accuracy. *American Journal of Physical Anthropology* 68:1–14.
- Lovejoy, C. Owen, Richard S. Meindl, Thomas P. Pryzbeck, and Robert P. Mensforth  
1985b Chronological Metamorphosis of the Auricular Surface of the Ilium: A New Method for the Determination of Adult Skeletal Age at Death. *American Journal of Physical Anthropology* 68:15–28.
- Lovejoy, C. Owen, Richard S. Meindl, Robert G. Tague, and Bruce Latimer  
1997 The Comparative Senescent Biology of the Hominoid Pelvis and Its Implications for the Use of Age-at-death Indicators in the Human Skeleton. In *Integrating Archaeological Demography: Multidisciplinary Approaches to Prehistoric Population*, edited by R. R. Paine, pp. 43–63. Center for Archaeological Investigations, *Occasional Paper*, 24. Southern Illinois University at Carbondale, Carbondale, IL.
- Lovis, William A.  
2001 Clay Effigy Representations of the Bear and Mishipeshu: Algonquian Iconography from the Late Woodland Johnson Site, Northern Lower Michigan. *Midcontinental Journal of Archaeology* 26(1): 105–119.
- Lowie, Robert H.  
1910 The Assiniboine. In *Anthropological Papers*, v.4, edited by Clark Wissler, pp. 1–270. American Museum of Natural History, New York.
- Lurie, Nancy Oestreich  
1978 Winnebago. In *Handbook of North American Indians*, edited by B. G. Trigger, pp. 690–707. vol. 15 *Northeast*. Smithsonian Institution Press, Washington, DC.
- Lynott, Mark J.  
1998a Geophysical Surveys in the Mid-Continent: John Weymouth and the Midwest Archeological Center. In *Hopewell Archaeology: The Newsletter of Hopewell Archaeology in the Ohio River Valley*, edited by Mark J. Lynott and Bret J. Ruby, Volume 3(1):1–6. The National Park Service Midwest Archaeological Center and Hopewell Culture National Historical Park, Lincoln, Nebraska and Chillicothe, OH. Electronic version available at <http://www.cr.nps.gov/mwac/hopewell/v3n1/>.  
1998b Research at Hopeton Earthworks. In *Hopewell Archaeology: The Newsletter of Hopewell Archaeology in the Ohio River Valley*, edited by Mark J. Lynott and Bret J. Ruby, Volume 3(1):7. The National Park Service Midwest Archaeological Center and Hopewell Culture National Historical Park, Lincoln, Nebraska and Chillicothe, OH. Electronic version available at <http://www.cr.nps.gov/mwac/hopewell/v3n1/>.  
2001 Hopeton Earthworks: An Interim Report. In *Hopewell Archaeology: The Newsletter of Hopewell Archaeology in the Ohio River Valley*, edited by Mark J. Lynott, Volume 4(2):1–5. The National Park Service Midwest Archaeological Center, Lincoln, NE. Electronic version available at <http://www.cr.nps.gov/mwac/hopewell/v4n2/index.html>.
- Lynott, Mark, John Weymouth, Rolge Mandel, Rinita Dalan, and Bruce Bevan  
2005 Ohio Hopewell Earthen Wall Construction: A View from the Hopeton Earthworks. Paper presented at the Midwest Archaeological Conference, Dayton, OH. October.
- MacCauley, Clay  
1887 The Seminole Indians of Florida. *Fifth Annual Report of the Bureau of Ethnology to the Secretary of the Smithsonian Institution, 1883–1884*, edited by J. W. Powell, pp. 469–531. U.S. Government Printing Office, Washington.
- MacLean, J. P.  
1879 *The Mound Builders*. Robert Clarke & Co., Cincinnati, OH.
- Magrath, William H.  
1945 The North Benton Mound: A Hopewell Site in Ohio. *American Antiquity* 11(1):40–47.
- Mahoney, Nancy M.  
2000 Redefining the Scale of Chacoan Communities. In *Great House Communities across the Chacoan Landscape*, edited by J. Kantner and N. M. Mahoney, pp. 19–27. *Anthropological Papers of the University of Arizona*, 64. University of Arizona Press, Tucson, AZ.
- Mails, Thomas E.  
1972 *Mystic Warriors of the Plains*. Council Oaks Books, Tulsa, OK.  
1978 *Sundancing at Rosebud and Pine Ridge*. Center for Western Studies, Augustana College, Sioux Falls, SD.



- 1979 *Fools Crow*. University of Nebraska Press, Lincoln, NE.
- 1991 *Fools Crow: Wisdom and Power*. Council Oak Books, Tulsa, OK.
- Mallam, R. C.  
1982 Ideology from the Earth: Effigy Mounds in the Midwest. *Archaeology* 35(4):60–64.
- Mann, Barbara Alice  
2003 *Native Americans, Archaeologists, and the Mounds*. Peter Lang, New York, NY.
- Mann, Robert W, S. A. Symes, and W. M. Bass  
1987 Maxillary Suture Obliteration: Aging the Human Skeleton Based on Intact or Fragmentary Maxilla. *Journal of Forensic Sciences* 32: 148–157.
- Marsella, A. J., G. DeVos, and F. L. K. Hsu  
1985 *Culture and the Self*. Tavistock, New York.
- Marshall, F. F.  
1966 *Ohio's Tree Monarchs: Relics of the Primitive Wilderness*. Privately printed, Dayton, OH.
- Marshall, James A.  
1980 Geometry of the Hopewell Earthworks. *Ohio Archaeologist* 30(2):8–12.  
1987 An Atlas of American Indian Geometry. *Ohio Archaeologist* 37(2):36–49.  
1996 Towards a Definition of the Ohio Hopewell Core and Periphery Utilizing the Geometric Earthworks. In *A View from the Core: A Synthesis of Ohio Hopewell Archaeology*, edited by P. J. Pacheco, pp. 210–220. The Ohio Archaeological Council, Inc. Columbus, OH.
- Martin, Susan R.  
1999 *Wonderous Power: The Story of Ancient Copper Working in the Lake Superior Basin*. Wayne State University Press, Detroit.
- Marwitt, John P., Brenda Davis, Stephen Batug, Virginia Albanese, Thomas Yocum, and Richard Stallings  
1984 Test Excavations at the Island Creek Village Site (33AD25). Report prepared for the U.S. Army Corps of Engineers, Huntington District, West Virginia, Contract No. DACW-69-82-C-0007.
- Maslowski, Robert F., Charles M. Niquette, and Derek M. Wingfield  
1995 The Kentucky, Ohio, and West Virginia Database. *West Virginia Archeologist* 47(1&2): 1–75.
- Maslowski, Robert F., and Mark F. Seeman  
1992 Woodland Archaeology in the Mid-Ohio Valley: Setting Parameters for Ohio Main Stem/Tributary Comparisons. In *Cultural Variability in Context: Woodland Settlements of the Mid-Ohio Valley*, edited by M. F. Seeman, pp. 10–14. Midcontinental Journal of Archaeology, *Special Paper*, 7. Kent State University Press, Kent, OH.
- Masset, Claude  
1989 Age Estimation on the Basis of Cranial Sutures. In *Age Markers in the Human Skeleton*, edited by M. Y. Işcan, pp. 71–103. Charles C. Thomas, Springfield, IL.
- Mauss, Marcel  
1938 Un Catégorie de l'Esprit Humain: La Notion de Personne, Celle de "Moi". *Journal of the Royal Anthropological Institute* 68.  
1985 A Category of the Human Mind: The Notion of Person, the Notion of Self, translated by W. D. Halls. In *The Category of the Person: Anthropology, Philosophy, History*, edited by M. Carrithers, S. Collins, and S. Lukes, pp. 1–25. Cambridge University Press, Cambridge, UK. (original 1938).
- Maxwell, Moreua S.  
1959 The Late Woodland Period. In *Illinois Archaeology*, pp. 27–32. Illinois Archaeological Survey, *Bulletin*, 1.
- McAdams, William C.  
1887 *Records of Ancient Races in the Mississippi Valley*. C. R. Barns Publishing Company, St. Louis.
- McClintock, Walter  
1935 The Blackfoot Beaver Bundle. *Southwest Museum Leaflets* 2, 3. Los Angeles. Reprinted from *The Masterkey* 2(1935):76–84, 108–117. Los Angeles.
- McDermott, John F.  
1961 Seth Eastman: Pictorial Historian of the Indian. University of Oklahoma Press, Norman.
- McGregor, John C.  
1941 Burial of an Early American Magician. *Proceedings of the American Philosophical Society* 82(2):270–301.
- McKern, Thomas W. and T. Dale Stewart  
1957 *Skeletal Age Changes in Young American Males, Analyzed from the Standpoint of Identification*. Environmental Protection Research Division (Quartermaster Research and Development Center, U.S. Army Natick, MA), *Technical Report* No. EP-45.
- McLachlan, Carrie Ann  
1999 Cherokee Cosmology. Master's thesis, Department of History, Western Carolina University, Cullowhee, NC.
- McNaughton, Patrick R.  
1988 *The Mande Blacksmiths: Knowledge, Power, and Art in West Africa*. Indiana University Press, Bloomington, IN.
- Mead, George H.  
1934 *Mind, Self, and Society*. University of Chicago Press, Chicago, IL.
- Meindl, Richard S and C. Owen Lovejoy  
1985 Ectocranial Suture Closure: A Revised Method for the Determination of Skeletal Age at Death Based on the Lateral-anterior Sutures. *American Journal of Physical Anthropology* 68:57–66.
- Meillassoux, C.  
1978 The "Economy" in Agricultural Self-sustaining Societies; A Preliminary Analysis. In *Relations of Production: Marxist Approaches to Economic Anthropology*, edited by D. Seddon, pp. 127–157. Frank Cass, London.

- 1981 *Maidens, Meals, and Money*. Cambridge University Press, Cambridge, UK
- Mensforth, R. P.  
2001 Warfare and Trophy Taking in the Archaic Period. In *Archaic Transition in Ohio and Kentucky Prehistory*, edited by O. H. Prufer, S. E. Pedde, and R. S. Meindl, pp. 110–138. Kent State University Press, Kent, OH.
- 2007 Human Trophy Taking in Eastern North America During the Archaic Period. In *The Taking and Displaying of Human Body Parts as Trophies by Amerindians*, edited by D. H. Dye and R. J. Chacon, pp. 222–277. Springer, New York.
- Mensforth, Robert P., and C. Owen Lovejoy  
1985 Anatomical, Physiological, and Epidemiological Correlates of the Aging Process: a Confirmation of Multifactorial Age Determination in the Libben Skeletal Population. *American Journal of Physical Anthropology* 68(1):87–106.
- Merbs, Charles F.  
1983 Patterns of Activity-Induced Pathology in a Canadian Inuit Population. Archaeological Survey of Canada, *Paper*, 19. National Museums of Canada, Ottawa.
- Metcalf, Peter, and Richard Huntington  
1991 *Celebrations of Death*. Cambridge University Press, Cambridge, UK.
- Metress, James F.  
1971 *An Osteobiography of the Buffalo Site, Fulton County, West Virginia*. Doctoral dissertation, Department of Anthropology, Indiana University, Bloomington, IN.
- Metz, C. L.  
1882 Field Notes: Mounds 3 and 4, Mound 5, Mound 7, Mound 8, Mound 12, and Mound 13. Document on file at the Peabody Museum, Harvard University, Cambridge, MA (X-File 32–25A(2)).  
n.d. Field Notes: Mound No. 9, Turner Group. Document on file at the Peabody Museum, Harvard University, Cambridge, MA (X-File 32–25A).
- 1878 The Prehistoric Monuments of the Little Miami Valley. *Journal of the Cincinnati Society of Natural History* 1 (October 1878):119–128.
- 1881 The Prehistoric Monuments of Anderson Township, Hamilton County, Ohio. *Journal of the Cincinnati Society of Natural History* 4 (December 1881):293–306.
- Metz, C. L., and F. W. Putnam  
1886 Explorations in Ohio. *Eighteenth and Nineteen Annual Reports of the Trustees of the Peabody Museum* 3(5-6):449–466.
- Michaelsen, Scott  
1999 *The Limits of Multiculturalism: Interrogating the Origins of American Anthropology*. University of Minnesota Press, Minneapolis, MN.
- Miles, A.E.W.  
1963 The Dentition in the Assessment of Individual Age in Skeletal Material. In *Dental Anthropology*, edited by D. R. Brothwell, pp. 191–209. Symposia of the Society for the Study of Human Biology, vol. V. Pergamon Press, Oxford, UK.
- 1978 Teeth as an Indicator of Age in Man. In *Development, Function and Evolution of Teeth*, edited by P. M. Butler and K. A. Joysey, pp. 455–464. Academic Press, New York, NY.
- Miller, F.  
1878 Mounds in Trumbull County, Ohio. *Annual Report of the Smithsonian Institution for 1877*:268. Smithsonian Institution, Washington, DC.
- Miller, Walter R.  
1955 Two Concepts of Authority. *American Anthropologist* 57(2):271–289.
- Mills, Lisa  
2001 Mitochondrial DNA Analysis of the Ohio Hopewell of the Hopewell Mound Group. *West Virginia Archaeologist* 53(1&2):1–18.  
2003 *Mitochondrial DNA Analysis of the Ohio Hopewell at the Hopewell Mound Group*. Doctoral dissertation, Department of Anthropology, Ohio State University, Columbus, OH.
- Mills, William C.  
1902 Excavations of the Adena Mound. *Ohio State Archaeological and Historical Society Publications* 10:452–485.  
1903 Diary of William C. Mills. Document on file at the Ohio Historical Society, Columbus, OH.  
1904 Explorations of the Gartner Mound and Village Site. *Ohio State Archaeological and Historical Quarterly* 13:128–189.  
1906 Baum Prehistoric Village. *Ohio State Archaeological and Historical Quarterly* 15:44–136.  
1907 The Explorations of the Edwin Harness Mound. *Ohio State Archaeological and Historical Quarterly* 16:113–193.  
1909 Explorations of the Seip Mound. *Ohio State Archaeological and Historical Quarterly* 18:269–321.  
1914 *Archaeological Atlas of Ohio*. Ohio State Archaeological and Historical Society, Columbus, OH.  
1916 Exploration of the Tremper Mound. *Ohio State Archaeological and Historical Quarterly* 25:262–398.  
1917 The Feurt Mounds and Village Site. *Ohio State Archaeological and Historical Quarterly* 26:304–449.  
1922 Exploration of the Mound City Group. *Ohio State Archaeological and Historical Quarterly* 31:423–584.
- Mills, Truman B.  
1919 The Ulrich Group of Mounds. *Ohio State Archaeological and Historical Quarterly* 28(2):162–175.
- Milner, George R.  
1995 An Osteological Perspective on Prehistoric Warfare. In *Regional Approaches to Mortuary Analysis*, edited by L. A. Beck, pp. 221–244. Plenum Press, New York, NY.  
1999 Warfare in Prehistoric and Early Historic Eastern North America. *Journal of Archaeological Research* 7:105–151.

- 2004 *The Moundbuilders: Ancient Peoples of Eastern North America*. Thames and Hudson, Ltd., London, UK.
- Mindeleff, Victor  
1898 Aboriginal Architecture in the United States. *Journal of the Geographical Society of New York* 30(5):414–427.
- Minturn, Penny  
2006 *The Biogeography of the Tonto Basin in Central Arizona*. Doctoral dissertation, School of Human Evolution and Social Change, Arizona State University, Tempe, AZ.
- Mitchell, Douglas R.  
2003 Burial and Society. In *Centuries of Decline during the Hohokam Classic Period at Pueblo Grande*, edited by D. R. Abbott, pp. 107–127. University of Arizona Press, Tucson.
- Mitchell, Douglas R., and Judy L. Brunson-Hadley  
2001 An Evaluation of Classic Period Hohokam Burials and Society: Chiefs, Priests, or Acephalous Complexity? In *Ancient Burial Practices in the American Southwest: Archaeology, Physical Anthropology, and Native American Perspectives*, edited by D. R. Mitchell and J. L. Brunson-Hadley, pp. 45–67. University of New Mexico Press, Albuquerque.
- Mobius, P. J.  
1907 Über die Verschiedenheit männlicher und weiblicher Schädel. *Archiv für Anthropologie* 6:1–7.
- Montet-White, Anna  
1968 The Lithic Industries of the Illinois Valley in the Early and Middle Woodland Periods. University of Michigan, Museum of Anthropology, *Anthropological Papers* 35. Ann Arbor, MI.
- Mooney, James  
1891a The Sacred Formulas of the Cherokees. In *Seventh Annual Report of the Bureau of Ethnology to the Secretary of the Smithsonian Institution, 1885–1886*, edited by J.W. Powell, pp. 301–397. U.S. Government Printing Office, Washington.  
1891b Die Kosmogonie der Cherokee. *Am Ur-Quell* 2B:85–87. Montasschrift für Volkskunde. Herausgegeben von Friedrich S. Krauss.  
1900a Myths of the Cherokee. In *Nineteenth Annual Report of the Bureau of American Ethnology, 1897–1898, to the Secretary of the Smithsonian Institution*, edited by J. W. Powell, pp. 3–548. U.S. Government Printing Office, Washington, DC.  
1900b The Cherokee River Cult. *Journal of American Folklore* 13(48):1–10.
- Moore, John H., and Michael E. Moseley  
2001 How Many Frogs Does It Take to Leap Around the Americas? Comments on Anderson and Gillam. *American Antiquity* 66(3):526–529.
- Moorees, Coenraad F., Ellen A. Fanning, and Edward E. Hunt, Jr.  
1963a Formation and Resorption of Three Deciduous Teeth in Children. *American Journal of Physical Anthropology* 21:205–213.  
1963b Age Variation of Formation Stages for Ten Permanent Teeth. *Journal of Dental Research* 42(6):1490–1502.
- Moorehead, Warren King  
1890 *Fort Ancient: The Great Prehistoric Earthwork of Warren County, Ohio*. Robert Clarke and Co., Cincinnati.  
1891 *Account of Explorations at Hopewell Group, Ohio, for Department of Ethnology, W.C.E.* Field notes on file, Field Museum of Natural History, Chicago, IL.  
1891–1892 Record of Warren K. Moorehead, Explorations, Little Miami Valley, Ohio, April 1891–Jan. 1892. Field notes on file, File A-17, Folder 6, Field Museum of Natural History, Chicago.  
1892 *Primitive Man in Ohio*. G. P. Putnam's Sons, New York, NY.  
1896 Report of Field Work Carried out in the Muskingum, Scioto, and Ohio Valleys during the Season of 1896. *Ohio Archaeological and Historical Quarterly* 5:165–274.  
1897a The Hopewell Group. *The Antiquarian* 1: 113–120.  
The Hopewell Group (continued). *The Antiquarian* 1:153–158.  
The Hopewell Group (continued). *The Antiquarian* 1:178–184.  
The Hopewell Group (continued). *The Antiquarian* 1:208–213.  
The Hopewell Group (continued). *The Antiquarian* 1:236–243.  
The Hopewell Group (continued). *The Antiquarian* 1:254–264.  
The Hopewell Group (continued). *The Antiquarian* 1:291–295.  
The Hopewell Group (continued). *The Antiquarian* 1:312–316.  
1897b Report of Field Work Carried on in the Muskingum, Scioto, and Ohio Valleys during the Season of 1886. *Ohio State Archaeological and Historical Quarterly* 5:165–274.  
1898–1899 Report of Field Work in Various Portions of Ohio. *Ohio State Archaeological and Historical Quarterly* 7:110–203.  
1922 The Hopewell Mound Group of Ohio. Field Museum of Natural History, *Publication* 211; *Anthropological Series* 6(5):73–184, plates 51–83. Chicago, IL  
1932 *Etowah Papers I. Exploration of the Etowah Site in Georgia*. Yale University Press, New Haven, CN.
- Morgan, Lewis Henry  
1954 *League of the Ho-De-No-Sau-Nee or Iroquois*. Yale University Press, New Haven, CN. Original 1851.
- Morinis, Alan  
1992 Introduction: The Territory of the Anthropology of Pilgrimage. In *Sacred Journeys: The Anthropology of Pilgrimage*, edited by A. Morinis, pp. 1–28. Greenwood Press, Westport, CN.

- Morris, Ian  
1991 The Archaeology of Ancestors: The Saxe/Goldstein Hypothesis Revisited. *Cambridge Archaeological Journal* 1(2):147–169.
- Morrison, Kenneth M.  
1984 *The Embattled Northeast*. University of California Press, Berkeley.  
2000 The Cosmos as Intersubjective: Native American Other-Than-Human Persons. In *Indigenous Religions: A Companion*, edited by Graham Harvey, pp. 23–36. Cassell, London.  
2002 *The Solidarity of Kin: Ethnohistory, Religious Studies, and the Algonkian-French Religious Encounter*. State University of New York Press, Albany, NY.
- Morrow, Carol A.  
1991 Observations on the Baehr Mounds Chert “Disks”: The American Museum of Natural History Collections. *Illinois Archaeology* 3(1):77–92.
- Morse, Dan F., and Phyllis A. Morse  
1965 The Hannah Site, Peoria County, Illinois. In *Middle Woodland Sites in Illinois*. Illinois Archaeological Survey, *Bulletin* 5:129–147.  
1983 *Archaeology of the Central Mississippi Valley*. Academic Press, New York.
- Mortine, Wayne A., and Doug Randles  
1978 The Martin Mound: An Extension of the Hopewell Interaction Sphere into the Walhonding Valley of Eastern Ohio. *Occasional Papers in Muskingum Valley Archaeology*, 10. The Muskingum Valley Archaeological Survey, Zanesville, OH.
- Morton, James, and Jeff Carskadden  
1987 Test Excavations at an Early Hopewellian Site near Dresden, Ohio. *Ohio Archaeologist* 37:8–12.
- Moses, Lester G.  
1984 *The Indian Man: A Biography of James Mooney*. University of Illinois Press, Urbana, IL  
1999 James Mooney. In *American National Biography*, v. 15, edited by J. A. Garraty and M. C. Carnes, pp. 729–731. Oxford University Press, New York.
- Muller, Jon  
1966 *An Experimental Theory of Stylistic Analysis*. Doctoral dissertation, Harvard University Press, Cambridge, MA.  
1979 Structural Studies of Art Styles. In *The Visual Arts: Plastic and Graphic*, edited by J. M. Corwell, pp. 139–212. Mouton Publishers, The Hague.  
1986 *Archaeology of the Lower Ohio River Valley*. Academic Press, New York.
- Munson, Patrick J.  
1967 A Hopewellian Enclosure Earthwork in the Illinois Valley. *American Antiquity* 32(3):391–393.  
1971 An Archaeological Survey of the American Bottoms and Wood River Terrace, Part 1. Illinois State Museum, *Reports of Investigation*, 21: 1–17.  
1986 Black Sand and Havana Tradition Ceramic Assemblages and Culture History in the Central Illinois River Valley. In *Early Woodland Archeology*, ed. by K. B. Farnsworth and T. E. Emerson, pp. 280–300. Center for American Archaeology Press, Kampsville, IL.
- Munson, Patrick J., and James P. Anderson  
1973 A Preliminary Report on Kane Village: A Late Woodland Site in Madison County, Illinois. *Illinois Archaeology Survey, Bulletin* 9:34–57.
- Murdock, George P.  
1949a *Social Structure*. The Macmillan Company, Toronto, Quebec, Canada.  
1949b Comparative Data on the Division of Labor by Sex. *Social Forces* 15(4):551–553.
- Murdock, George P., and Caterina Provost  
1973 Factors in the Division of Labor by Sex: A Cross-cultural Analysis. *Ethnology* 12:203–225.
- Murphy, James  
1975 *An Archaeological History of the Hocking Valley*. Ohio University Press, Athens, OH.  
1978 William C. Mills’ Notes on the Edwin Harness Mound Excavations of 1903. *Ohio Archaeologist* 28(3):8–11.
- Nabokov, Peter, and Robert Easton  
1989 *Native American Architecture*. Oxford University Press, New York, NY.
- Nadel, S. F.  
1957 *Theory of Social Structure*. The Free Press, Glencoe, IL.
- Nanda, Serena  
2000 *Gender Diversity: Crosscultural Variations*. Waveland Press, Prospect Heights, IL.
- Nash, June  
1970 *In the Eyes of the Ancestors*. Yale University Press, New Haven, CN.
- Nass, John Jr.  
1988 Fort Ancient Agricultural Systems and Settlement: A View from Southwestern Ohio. *North American Archaeologist* 9(4):319–347.
- Nawrocki, Stephen P.  
1997 Analysis of the Human Remains. In *Hopewell in Mt. Vernon: A Study of the Mt. Vernon Site (12-PO-885)*, edited by the General Electric Company. General Electric Company, Mt. Vernon, IN.
- Neihardt, John G.  
1979 *Black Elk Speaks*. University of Nebraska Press, Lincoln, NE.
- Netting, Robert McC.  
1972 Sacred Power and Centralization: Aspects of Political Adaptation in Africa. In *Population Growth: Anthropological Implications*, edited by B. Spooner, pp. 219–244. MIT Press, Cambridge, MA.
- Nichols, Frances S. G.  
1940 Bibliography of Anthropological Papers by John R. Swanton. *Smithsonian Miscellaneous Collections* 100:593–600.  
1954 Index to Schoolcraft’s “Indian Tribes of the United States”. Bureau of American Ethnology, *Bulletin* 152. Smithsonian Institution, U.S. Government Printing Office, Washington.

- Nilsson-Stutz, Liv  
2003 Embodied Rituals and Ritualized Bodies: racing Ritual Practices in Late Mesolithic Burials. *ACTA Archaeologica Lundensia Series* 8, No. 46. Lund, Sweden.
- Norris, Rae  
1985 Excavation of the Toepfner Mound. *Archaeology of Eastern North America* 13:128–137.
- O'Connell, James F.  
1979 Site Structures and Dynamics among Modern Alyawara Hunters. Paper presented at the annual meeting of the Society for American Archaeology.
- O'Connell, James F., Kristen Hawkes, and Nicholas Blurton Jones  
1991 Distribution of Refuse-Producing Activities at Hadza Residential Base Camps: Implications for Analyses of Archaeological Site Structure. In *The Interpretation of Spatial Patterns within Stone Age Archaeological Sites*, edited by T. D. Price and E. M. Kroll, pp. 61–76. Plenum Publishing, New York.
- Oehler, Charles  
1973 *Turpin Indians*. Cincinnati Museum of Natural History, Cincinnati, OH.
- Ohio Department of Natural Resources  
2005 *Natural Vegetation Map of Ohio, Adaptation of Robert Gordon's Map Published by the Ohio Biological Survey, 1966* (see Gordon 1966, 1969, above). Internet file <http://www2.wcoil.com/~rfrobb/maps.html>.
- Ohio Department of Transportation  
1993 Phase III Re-examination of Selected Prehistoric Resources and Phase II Testing of Flood Prone Areas Impacted by the Proposed PIK-32-13-55 Project in Seal Township, Pike County, Ohio (Pid. 7563). Addendum Report. Cultural Resources Unit, Bureau of Environmental Services, Ohio Department of Transportation, Columbus, OH.
- Ohio Historical Society  
n.d. NAGPRA records on file at the Ohio Historical Society, Columbus, OH.
- Olbrechts, Frans M.  
1932 In Memoriam: James Mooney. In Bureau of American Ethnology, *Bulletin* 99, The Swimmer Manuscript: Cherokee Sacred Formulas and Medicinal Prescriptions by James Mooney, edited by Frans M. Olbrechts, p.xvii. U.S. Government Printing Office, Washington.
- Ortiz, Alfonso  
1972 Ritual Drama and Pueblo World View. In *New Perspectives on the Pueblos*, edited by A. Ortiz, pp. 135–161. University of New Mexico Press, Albuquerque, NM.
- Osborn, Chase S. and Stella B. Osborn  
1942 *Schoolcraft, Longfellow, Hiawatha*. Jaques Cattell Press, Lancaster.
- O'Shea, John  
1981 Social Configurations and the Archaeological Study of Mortuary Practices: A Case Study. In *The Archaeology of Death*, edited by R. Chapman, I. Kinnes and K. Randsborg, pp. 39–52. Cambridge University Press, Cambridge, UK.
- Otto, Martha Potter  
1970 Excavation of the Phillip Smith Mound (33-Fa-37). Field report, notes, and map curated at the Ohio Historical Society, Columbus, OH.  
1975 A New Engraved Adena Tablet. *Ohio Archaeologist* 25(2):31–36.  
1980 *Ohio's Prehistoric Peoples*. The Ohio Historical Society, Columbus, OH.  
1984 Masterworks in Pipestone: Treasure from Tremper Mound. *Timeline* 1:18–33.  
1992 A Prehistoric Menagerie: Ohio Hopewell Effigy Pipes. In *Proceedings of the 1989 Smoking Pipe Conference: Selected Papers*, edited by C. F. Hayes III, C. C. Bodner and M. L. Sempowski, pp. 1–11. Rochester Museum & Science Center, *Research Records* 22, Rochester, NY.  
2004 A Brief History of Archaeological Investigations at Fort Ancient, Warren County, Ohio. In *The Fort Ancient Earthworks: Prehistoric Lifeways of the Hopewell Culture in Southwestern Ohio*, edited by R. P. Connolly and B. T. Lepper, pp. 3–13. The Ohio Historical Society, Columbus, OH.
- Owen, Mary Alicia  
1904 *Folk-Lore of the Musquakie Indians of North America*. Folk-Lore Society, London.
- Owsley, Douglas W., Hugh E. Berryman, and William M. Bass  
1977 Demographic and Osteological Evidence for Warfare at the Larson site, South Dakota. *Plains Anthropologist, Memoir* 13, 22–78, Pt. 2, pp. 119–132.
- Pacheco, Paul J.  
1988 Ohio Middle Woodland Settlement Variability in the Upper Licking River Drainage. *Journal of the Steward Anthropological Society* 18(1/2):87–112.  
1993 *Ohio Hopewell Settlement Patterns: An Application of the Vacant Center Model to Middle Woodland Period Intracommunity Settlement Variability in the Upper Licking River Valley*. Doctoral dissertation, The Ohio State University.  
1996 Ohio Hopewell Regional Settlement Patterns. In *A View from the Core: A Synthesis of Ohio Hopewell Archaeology*, edited by P. J. Pacheco, pp. 16–35. The Ohio Archaeological Council Inc., Columbus.  
1997 Ohio Middle Woodland Intracommunity Settlement Variability: A Case Study from the Licking Valley. In *Ohio Hopewell Community Organization*, edited by W. S. Dancy and P. J. Pacheco, pp. 41–84. Kent State University Press, Kent, OH.
- Pacheco, Paul J., Jarrod Burks, and DeeAnne Wymer  
2005 Investigating Ohio Hopewell Settlement Patterns in Central Ohio: Archaeology at Brown's Bottom#1 (33Ro21). Paper presented at the annual meeting of the Midwestern Archaeological Conference, October 21, Dayton, OH.



- 2006 Ohio Hopewell Settlement at Brown's Bottom#1 (33Ro21). Paper presented at the annual meeting of the Midwestern Archaeological Conference, Urbana, IL, October.
- Pacheco, Paul J., and William S. Dancy  
2006 Integrating Mortuary and Settlement Data on Ohio Hopewell Society. In *Recreating Hopewell*, edited by D. K. Charles and J. E. Buikstra, pp. 3–25. University Press of Florida, Gainesville, FL.
- Paper, Jordan  
1987 Cosmological Implications of Pan-Indian Sacred Pipe Ritual. *Canadian Journal of Native Studies VII*, 2:297–306.
- Parmalee, Paul W.  
1965 The Vertebrate Fauna. In *The McGraw Site: A Study in Hopewellian Dynamics*, edited by O. Prufer, D. H. McKenzie, O. Pi-Sunyer, H. C. Cutler, R. A. Yarnell, P. W. Parmalee and D. H. Stansbery, pp. 115–118. *Scientific Publications, New Series*, vol. 4(1). Cleveland Museum of Natural History.
- Payne, John H.  
1849 The Ancient Cherokee Traditions and Religious Rites. *The American Quarterly Register and Magazine*. 3:444–450.  
1862 The Green-Corn Dance. *The Continental Monthly* 1:17–29.
- Pearson, Mike Parker  
1982 Mortuary Practices, Society, and Ideology: An Ethnoarchaeological Study. In *Symbolic and Structural Archaeology*, edited by I. Hodder, pp. 99–113. Cambridge University Press, Cambridge, U.K.  
2000 *The Archaeology of Burial and Death*. Texas A&M University Press. College Station, TX.
- Pearson, Mike, and Colin Richards  
1994 Ordering the World: Perceptions of Architecture, Space, and Time. In *Architecture and Order: Approaches to Social Space*, edited by M. Pearson and C. Richards, pp. 1–37. Routledge, New York.
- Peebles, Christopher S.  
1971 Moundville and Surrounding Sites: Some Structural Considerations of Mortuary Practices, II. In *Approaches to the Social Dimensions of Mortuary Practices*, edited by J. A. Brown, pp. 68–91. *Memoirs of the Society of American Archaeology*, 25. SAA, Washington, DC.  
1974 Moundville: The Organization of a Prehistoric Community and Culture. Doctoral dissertation, Department of Anthropology, University of California, Santa Barbara, CA.
- Peebles, Christopher S., and Susan Kus  
1977 Some Archaeological Correlates of Ranked Societies. *American Antiquity* 42(3):421–448.
- Penney, David W.  
1980 The Adena Engraved Tablets: A Study of Art Prehistory. *Mid-Continental Journal of Archaeology* 5(1):3–38.  
1983 Imagery of the Middle Woodland Period: The Birth of a North American Iconographic Tradition. Paper presented at the Douglas Fraser Memorial Symposium on Primitive and Precolumbian Art, Columbia University, New York.
- 1985 Continuities of Imagery and Symbolism in the Art of the Woodlands. *Ancient Art of the American Woodland Indians*, edited by D. S. Brose, J. A. Brown, and D. W. Penney, pp. 147–198. Harry Abrams, Inc., New York, NY.
- 1989 *Hopewell Art*. Doctoral dissertation, Columbia University.
- Perino, Gregory  
1968 The Pete Klunk Mound Group, Calhoun County, Illinois: The Archaic and Hopewell Occupations (with an Appendix on the Gibson Mound Group). In *Hopewell and Woodland Site Archaeology in Illinois*, pp. 9–124. Illinois Archaeological Survey, Bulletin 9.  
1971 How Early is the Underground Panther Design Element? *Central States Archaeological Journal* 18(1):5–7.
- Phagan, Carl J.  
n.d.a Preliminary Summary of an Intensive Archaeological Survey. Delaware County Sewerage Improvement Project, Contract S73–1, Treatment Facility Location.  
n.d.b DECCO-1 Field Notes and Laboratory Records. Copies in author's possession.
- 1977 Intensive Archaeological Survey of the S.R. 315 Wastewater Treatment Facility Location, Known As the DECCO-1 Site (33-DI-28). Progress Report to the Board of County Commissioners, Delaware County, OH.
- Phenice, Terrell  
1969 A Newly Developed Visual Method of Sexing the Os Pubis. *American Journal of Physical Anthropology* 30:297–301.
- Phillips, Phillip, and James A. Brown  
1978 *Pre-Columbian Shell Engravings from the Craig Mound at Spiro, Oklahoma, Part I*. Peabody Museum of Archaeology and Ethnology, Harvard University, Cambridge, MA.  
1984 *Pre-Columbian Shell Engravings from the Craig Mound at Spiro, Oklahoma, Part II*. Peabody Museum of Archaeology and Ethnology, Harvard University, Cambridge, MA.
- Phillips, James L., and James A. Brown (editors)  
1983 *Archaic Hunters and Gatherers in the American Midwest*. Academic Press, New York, NY.
- Pickering, Robert B.  
1987 Table 1: Inventory of Hopewell Skeletons Identified by Moorehead's Numbering System. Manuscript on file at the Field Museum of Natural History, Chicago, IL.
- Picklesimer, John W., II, Frank L. Cowan, and Jarrod Burks  
2006 Addendum to Phase I Cultural Resources Survey for the ROS-104-14.26 (PID 21250) Road Widening in Scioto and Union Townships, Ross County, Ohio. Prepared for Ross County Engineers Office, Chillicothe, OH, by Gray and Pape, Inc., Cincinnati, OH.

- Pi-Sunyer, Oriol  
 1965 The Flint Industry. In *The McGraw Site: A Study in Hopewellian Dynamics*, pp. 60–89, by O. Prufer, D. H. McKenzie, O. Pi-Sunyer, H. C. Cutler, R. A. Yarnell, and P. W. Parmalee. Cleveland Museum of Natural History, *Scientific Publications* 3(1).
- Pittard, E  
 1900 Quelques Comparisons Sexuelles de Cranes Anciens. *L'Anthropol* 11:179–192.
- Power, Susan C.  
 2004 *Early Art of the Southeastern Indians: Feathered Serpents and Winged Beings*. University of Georgia Press, Athens.
- Price, T. Douglas, Linda Manzanilla, and William D. Middleton  
 2000 Immigration and the Ancient City of Teotihuacan in Mexico: A Study Using Strontium Isotope Ratios in Human Bone and Teeth. *Journal of Archaeological Science* 27:903–913.
- Prufer, Olaf H.  
 1961 *The Hopewell Complex of Ohio*. Doctoral dissertation, Harvard University.  
 1964a The Hopewell Complex of Ohio. In *Hopewellian Studies*, edited by J. Caldwell and R. Hall, pp. 35–83. *Scientific Papers*, vol. 12. Illinois State Museum, Springfield, IL.  
 1964b The Hopewell Cult. *Scientific American* 211(6):90–102.  
 1967 The Scioto Valley Archaeological Survey. In *Studies in Ohio Archaeology*, edited by O. H. Prufer and D. K. McKenzie, pp. 267–328. Western Reserve University Press, Cleveland, OH.  
 1968 Ohio Hopewell Ceramics: An Analysis of the Extant Collections. University of Michigan, Museum of Anthropology, *Anthropological Papers*, 23. Ann Arbor, MI.  
 1975 The Scioto Valley Archaeological Survey. In *Studies in Ohio Archaeology*, edited by O. Prufer and D. H. McKenzie, pp. 267–328. Kent State University Press, Kent, OH.  
 1997 The Ilif Riddle Sites. In *Ohio Hopewell Community Organization*, edited by W. S. Dancy and P. J. Pacheco, pp. 361–363. Kent State University Press, Kent, OH.
- Prufer, Olaf H., Douglas H. McKenzie, Oriol Pi-Sunyer, Hugh C. Cutler, Richard A. Yarnell, Paul W. Parmalee  
 1965 The McGraw Site: A Study in Hopewellian Dynamics. Cleveland Museum of Natural History, *Scientific Publications* 3(1).
- Prufer, Olaf, and Orrin C. Shane, III  
 1970 *Blain Village and the Fort Ancient Tradition in Ohio*. Kent State University Press, Kent, OH.
- Putnam, Frederick W.  
 1885 Explorations of the Harness Mounds in the Scioto Valley, Ohio. *Eighteenth and Nineteenth Annual Reports of the Trustees of the Peabody Museum*, Harvard University (1884–1885), 3(5): 449–466.  
 1886a Explorations in Ohio. The Marriott Mound, No. 1, and Its Contents. *Eighteenth and Nineteenth Annual Reports of the Trustees of the Peabody Museum* 3(5–6):449–466.  
 1886b Report of the Curator. *Eighteenth and Nineteenth Annual Reports of the Trustees of the Peabody Museum* 3(5–6):401–418.  
 1886c The Altar Mounds of the Turner group in Ohio. *Eighteenth and Nineteenth Annual Reports of the Trustees of the Peabody Museum* 3(5–6):554–562.  
 1973 The Archaeological Reports of Frederic Ward Putnam: Selected from the Annual Reports of the Peabody Museum of Archaeology and Ethnology, Harvard University, 1875–1903. *Antiquities of the New World: Early Explorations in Archaeology*, Vol. 8. AMS Press, New York, NY.
- Putnam, Frederick W., and Charles L. Metz  
 1884 In *The Sixteenth and Seventeenth Annual Reports of the Trustees of the Peabody Museum of American Archaeology and Ethnology* 3(3,4). Cambridge, MA.
- Quimby, George I.  
 1943 A Subjective Interpretation of Some Design Similarities between Hopewell and Northern Algonkian. *American Anthropologist* 45: 630–633.  
 1960 *Indian Life in the Upper Great Lakes: 11,000 B.C. to A.D. 1800*. University of Chicago Press, Chicago, IL.
- Quinn, Michael J.  
 1974 *The Glacial Geology of Ross County, Ohio*. Doctoral dissertation, The Ohio State University, Columbus, OH.
- Radin, Paul  
 1923 The Winnebago Tribe. *Thirty-Seventh Annual Report of the United States Bureau of Ethnology to the Secretary of the Smithsonian Institution, 1915–1916*. Government Printing Office, Washington, DC.  
 1945 *The Road of Life and Death: A Ritual Drama of the American Indians*. Pantheon Books, New York, NY.
- Rainey, Katharine  
 2003 Using Ecology and Ethnography of Historic Eastern U.S. Swidden Practices to Interpret Ohio Hopewell Farming. Paper presented at the annual meeting of the Society for American Archaeology, Milwaukee, WI. April.
- Rappaport, Roy A.  
 1968 *Pigs for the Ancestors*. Yale University Press, New Haven, CT.  
 1971 Nature, Culture, and Ecological Anthropology. In *Man, Culture, and Society*, edited by H. L. Shapiro, pp. 237–266. Oxford University Press, Oxford, UK.
- Reagan, Albert B.  
 1922 Medicine Songs of George Farmer. *American Anthropologist* 24(3):332–369.
- Reichel-Dolmatoff, Gerardo  
 1978 Desana Animal Categories, Food Restrictions, and the Concept of Color Energies. *Journal of Latin American Lore* 4:243–291.

- 1987 *Shamanism and the Art of the Eastern Tukanoan Indians*. Brill, Leiden.
- Reichs, Katherine J.  
1975 *Biological Variability and the Hopewell Phenomenon: An Interregional Approach*. Doctoral dissertation, Department of Anthropology, Northwestern University, Evanston, IL.
- Reidhead, Van A.  
1976 *Optimization and Food Procurement at the Prehistoric Leonard Haag Site, Southeast Indiana: A Linear Programming Approach*. Doctoral dissertation, Department of Anthropology, Indiana University, Bloomington.
- Reilly, F. Kent, III.  
2004 People of Earth, People of Sky: Visualizing the Sacred in Native American Art of the Mississippian Period. In *Hero, Hawk, and Open Hand: American Indian Art of the Ancient Midwest and South*, edited by R. F. Townsend and R. V. Sharp, pp. 125–137. The Art Institute of Chicago and Yale University Press, Chicago, IL, and New Haven, CT.
- Reilly, F. Kent, III and James F. Garber, eds.  
2007 *Ancient Objects and Sacred Realms: Interpretations of Mississippian Iconography*. University of Texas Press, Austin.
- Relethford, John H., and H. C. Harpending  
1994 Craniometric Variation, Genetic Theory, and Modern Human Origins. *American Journal of Physical Anthropology* 95(3):249–270.
- Renfrew, Colin  
1994 The Archaeology of Religion. In *The Ancient Mind: Elements of Cognitive Archaeology*, edited by Colin Renfrew and Ezra B.W. Zubrow, pp. 47–54. Cambridge University Press, New York.
- Renfrew, Colin, and John F. Cherry (editors)  
1986 *Peer Polity Interaction and Socio-political Change*. Cambridge University Press, Cambridge, UK.
- Rice, Glen E.  
1998 War and Water: An Ecological Perspective on Hohokam Irrigation. *Kiva* 63(3):263–301.
- Rice, Prudence M.  
1987 *Pottery Analysis: A Sourcebook*. University of Chicago Press, Chicago, IL.
- Richards, Mary Caroline  
1989 *Centering in Pottery, Poetry, and the Person*. Wesleyan University Press, Middletown, CN.
- Riordon, Robert V.  
1986 The Bell Works: 1986 Archaeological Excavations at a Green County Enclosure. Wright State University, Laboratory of Anthropology, *Reports in Anthropology*, 8. Dayton, OH.  
1996 The Enclosed Hilltops of Southern Ohio. In *A View from the Core: A Synthesis of Ohio Hopewell Archaeology*, edited by P. J. Pacheco, pp. 242–256. The Ohio Archaeological Council Inc., Columbus.  
1998 Boundaries, Resistance, and Control: Enclosing the Hilltops in Middle Woodland Ohio. In *Ancient Earthen Enclosures of the Eastern Woodlands*, edited by R. C. Mainfort, Jr., and L. P. Sullivan, pp. 68–84. University Press of Florida, Gainesville, FL.
- 2004a Fort Ancient and Southwest Ohio. In *The Fort Ancient Earthworks: Prehistoric Lifeways of the Hopewell Culture in Southwestern Ohio*, edited by R. P. Connolly and B. T. Lepper, pp. 223–239. The Ohio Historical Society, Columbus, OH.
- 2004b Enclosed by Stone. Paper presented at the annual meeting of the Society for American Archaeology, Montreal.
- Ritzenthaler, Robert E.  
1969 Iroquois False-Face Masks. *Publications in Primitive Art*, 3. Milwaukee Public Museum, Milwaukee.  
1978 Southwestern Chippewa. In *Handbook of North American Indians*, vol.15, *Northeast*, edited by B. G. Trigger, pp. 743–759. Smithsonian Institution, Washington, DC.
- Ritzenthaler, Robert E., and Pat Ritzenthaler  
1970 *The Woodland Indians of the Western Great Lakes*. Natural History Press, Garden City, New York.
- Robertson, William  
1777 *The History of America*. W. Strahan, London.
- Rodrigues, Teresa  
2005 Gender and Social Differentiation within the Turner Population, Ohio, as Evidenced by Activity-Induced Musculoskeletal Stress Markers. In *Gathering Hopewell: Society, Ritual, and Ritual Interaction*, edited by C. Carr and D. T. Case, pp. 405–427. Kluwer Academic/Plenum Publishers, New York, NY.
- Roe, Peter  
1979 Marginal Men: Male Artists among the Shipibo Indians of Peru. *Anthropologica* 21:189–221.  
1995 Style, Society, Myth, and Structure. In *Style, Society, and Person: Archaeological and Ethnological Perspectives*, edited by C. Carr and J. Neitzel, pp. 27–76. Plenum Press, New York, NY.
- Rogers, J. Daniel, and George Sabo III  
2004 Caddo. In *Handbook of the North American Indians*, Volume 14, *Southeast*, edited by R. D. Fogelson, pp. 616–631. Smithsonian Institution, Washington, DC.
- Romain, William F.  
1996 Hopewell Geometry: Forms at the Interface of Time and Eternity. In *A View from the Core: A Synthesis of Ohio Hopewell Archaeology*, edited by P. J. Pacheco, pp. 194–209. Kent State University Press, Kent, OH.  
2000 *Mysteries of the Hopewell: Astronomers, Geometers, and Magicians of the Eastern Woodlands*. University of Akron Press, Akron, OH.  
2004 *Hopewell Geometric Enclosures: Gatherings of the Fourfold*. Doctoral dissertation, School of Archaeology and Ancient History, University of Leicester, Leicester, UK.



- 2005 Summary Report on the Orientations and Alignments of the Ohio Hopewell Geometric Enclosures. In *Gathering Hopewell: Society, Ritual, and Ritual Interaction*, edited by C. Carr and D. T. Case, CD-Appendix 3.1. Kluwer Academic/Plenum Publishers, New York, NY.
- Rosaldo, Renato I.  
1989 Grief and a Headhunter's Rage: On The Cultural Force of Emotions. In *Text, Play and Story*, ed. by E. M. Bruner, pp. 178–195. Waveland Press, Prospect Heights, IL.
- Roscoe, Will  
1998 *Changing Ones: Third and Fourth Genders in Native North America*. St. Martin's Press, New York.
- Rose, H. J.  
1922 Celestial and Terrestrial Orientation of the Dead. *Journal of the Royal Anthropological Institute of Great Britain and Northern Ireland* 52:127–140.
- Rosenthal, Beryl  
1995 Iroquois false Face Masks: The Multiple Causes of Style. In *Style, Society, and Person: Archaeological and Ethnological Perspectives*, edited by C. Carr and J. E. Neitzel, pp. 345–367. Plenum Press, New York.
- Rothschild, Nan  
1979 Mortuary Behavior and Social Organization at Indian Knoll and Dickson Mounds. *American Antiquity* 44(4):658–675.
- Ruby, Bret J.  
1997 *The Mann Phase: Hopewellian Subsistence and Settlement Adaptations in the Wabash Lowlands of Southwestern Indiana*. Doctoral dissertation, Department of Anthropology, Indiana University, Bloomington, IN.
- Ruby, Bret J., Christopher Carr, and Douglas K. Charles  
2005 Community Organizations in the Scioto, mann, and havana Hopewellian Regions: A Comparative Perspective. In *Gathering Hopewell: Society, Ritual, and Ritual Interaction*, edited by C. Carr and D. T. Case, pp. 119–176. Kluwer Academic/Plenum Publishers, New York.
- Ruby, Bret J., and Christine M. Shriner  
2005 Ceramic Vessel Compositions and Styles as Evidence of the Local and Nonlocal Social Affiliations of Ritual Participants at the Mann Site, Indiana. In *Gathering Hopewell: Society, Ritual, and Ritual Interaction*, edited by C. Carr and D. T. Case, pp. 553–572. Kluwer Academic/Plenum Publishers, New York, NY.
- Ruhl, Katharine C.  
1992 Copper Earspools From Ohio Hopewell Sites. *Midcontinental Journal of Archaeology* 17:46–79.  
1996 *Copper Earspools in the Hopewell Interaction Sphere: The Temporal and Social Implications*. Master's thesis, Kent State University, Kent, OH.  
2005 Hopewellian Copper Earspools from Eastern North America: The Social, Ritual, and Symbolic Significance of Their Contexts and Distribution. In *Gathering Hopewell: Society, Ritual, and Ritual Interaction*, edited by C. Carr and D. T. Case, pp. 696–713. Kluwer Academic/Plenum Publishers, New York.
- Ruhl, Katharine C., and Mark F. Seaman  
1998 The Temporal and Social Implications of Ohio Hopewell Copper Ear Spool Design. *American Antiquity* 63:651–662.
- Sahlins, Marshal  
1968 Poor Man, Rich Man, Big Man, Chief: Political Types in Melanesia and Polynesia. In *Peoples and Cultures of the Pacific*, edited by A. P. Vayda, pp. 157–176. Natural History Press, Garden City, NJ.  
1972 *Stone Age Economics*. Aldine-Atherton, Chicago, IL.
- Saitta, Dean J.  
1982 The Explanation of Change in Egalitarian Society: A Critique. Paper presented at the annual meeting of the Society for American Archaeology, Minneapolis, MN.
- Saliege, J. F., A. Person, and F. Paris  
1995 Preservation of 13C/12C Original Ratio and 14C Dating of the Mineral Fraction of Human Bones from Saharan Tombs, Niger. *Journal of Archaeological Science* 22:301–312.
- Salisbury, James A., and Charles B. Salisbury  
1862a Draft map of the Newark Earthworks. Manuscript on file, Archaeology Department, Cleveland Museum of Natural History, Cleveland, OH.  
1862b Accurate Surveys and Descriptions of the Ancient Earthworks at Newark, Ohio. Manuscript on file, American Antiquarian Society, Worcester, MA.  
n.d. Draft map of the Cherry Valley mound group and enclosure, Newark earthworks. On file, Cleveland Museum of Natural History, Cleveland, OH.
- Sampson, Kelvin W.  
1988 Conventionalized Figures on Late Woodland Ceramics. *Wisconsin Archeologist* 69(3):163–188.
- Saul, Frank P.  
1972 The Human Skeletal Remains of Altar de Sacrificios: An Osteobiographic Analysis. Peabody Museum of Archaeology and Ethnology, *Memoirs* 63(2). Peabody Museum of Archaeology and Ethnology, Cambridge, MA.
- Saul, Frank P., and Julie M. Saul  
1989 Osteobiography: A Maya Example. In *Reconstruction of Life from the Skeleton*, edited by M. Y. Işcan and K. A. R. Kennedy, pp. 287–302. Alan R. Liss, New York.
- Saunders, Shelley R.  
2000 Subadult Skeletons and Growth Related Studies. In *Biological Anthropology of the Human Skeleton*, edited by M. A. Katzenberg and S. R. Saunders, pp. 135–16. Wiley-Liss, New York, NY.
- Saville, M.H.  
1889 Field Notes: Excavation of Graves at Turner. Document on file at the Peabody Museum, Harvard University, Cambridge, MA (File 89–15, Document A-521).

- 1890 Field Notes: Turner Group Field Work 1889–1890. Document on file at the Peabody Museum, Harvard University, Cambridge, MA (X-File 90–37).
- Schillaci, Michael A.  
2003 The Development of Population Diversity at Chaco Canyon. *Kiva* 68(3):21–245.
- Schillaci, Michael A., Erik G. Ozolins, and Thomas C. Windes  
2001 Multivariate Assessment of Biological Relationships among Prehistoric Southwest Amerindian Populations. In *Following Through, Papers in Honor of Phyllis S. Davis*, edited by R. N. Wiseman, T. C. O’Laughlin, and C. T. Snow, pp. 133–149. Archaeological Society of New Mexico, *Papers* 27. Archaeological Society of New Mexico, Albuquerque.
- Schillaci, Michael A., and Christopher M. Stojanowski  
2002 A Reassessment of Matrilocality in Chacoan Culture. *American Antiquity* 67:343–356.
- 2003 Postmarital Residence and Biological Variation at Pueblo Bonito. *American Journal of Physical Anthropology* 120:1–15.
- Schmidt, E  
1888 *Anthropologische Methoden: Anleitung zum Beobachten und Sammeln für Laboratorium und Reise*. Leipzig, Veit Co.
- Schoeninger, Margaret J., Lisa Satenspiel, and Mark R. Schurr  
2000 Transitions at Moundville: A Question of Collapse. In *Bioarchaeological Studies of Life in the Age of Agriculture: A View from the Southeast*, edited by P. M. Lambert, pp. 63–77. University of Alabama Press, Tuscaloosa, AL.
- Schoeninger, Margaret J., and Mark R. Schurr  
1998 Human Subsistence at Moundville: The Stable-Isotope Data. In *Archaeology of the Moundville Chiefdom*, edited by V. J. Knight, Jr. and V. P. Steponaitis, pp. 120–132. Smithsonian Institution Press, Washington, DC.
- Schoolcraft, Henry R.  
1851–1857 *Historical and Statistical Information Respecting the History, Condition, and Prospects of the Indian Tribes of the United States: Collected and Prepared under the Direction of the Bureau of Indian Affairs per Act of Congress of March 3rd, 1847*. 6 vols. J.B. Lippincott, Philadelphia.
- 1860 *Archives of Aboriginal Knowledge, Containing all the Original Paper Laid before Congress Respecting the History, Antiquities, Language, Ethnology, Pictography, Rites, Superstitions, and Mythology of the Indian Tribes of the United States*. 6 vols. J.B. Lippincott, Philadelphia.
- Schwartz, Jeffrey H.  
1995 *Skeleton Keys: An Introduction to Human Skeletal Morphology, Development and Analysis*. Oxford University Press, New York, NY.
- Sciulli, Paul W.  
1997 Dental Evolution in Prehistoric Native Americans of the Ohio Valley Area. I. Wear and Pathology. *International Journal of Osteoarchaeology* 7:507–524.
- n.d. Hopewell Site Age and Sex Inventory. Document on file at the Ohio Historical Center, Columbus, OH.
- Sciulli, Paul W., and Michael C. Mahaney  
1986 Evidence of Local Biological Continuity for an Ohio Hopewell Complex Population. *Midcontinental Journal of Archaeology* 11(2):181–199.
- Seeman, Mark F.  
1977a *The Hopewell Interaction Sphere: The Evidence for Interregional Trade and Structural Complexity*. Doctoral dissertation, Indiana University.
- 1977b Stylistic Variation in Middle Woodland Pipe Styles: The Chronological Implications. *Midcontinental Journal of Archaeology* 2(1):47–66.
- 1979a The Hopewell Interaction Sphere: The Evidence for Inter-Regional Trade and Structural Complexity. *Indiana Historical Society, Prehistoric Research Series* 5(2):237–438.
- 1979b Feasting with the Dead: Ohio Hopewell Charnel House Ritual as a Context for Redistribution. In *Hopewell Archaeology: The Chillicothe Conference*, edited by D. S. Brose and N. Greber, pp. 39–46. Kent State University Press, Kent, OH.
- 1980 A Taxonomic Review of Southern Ohio Late Woodland. Paper on file with the author, Department of Anthropology, Kent State University, Kent, OH.
- 1985 The Locust Site (33Mu160): The 1983 Test Excavation of a Multicomponent Workshop in East Central Ohio. *Kent State Research Papers in Archaeology*, 7. Department of Sociology and Anthropology, Kent State University, Kent, OH.
- 1988 Ohio Hopewell Trophy Skull Artifacts as Evidence for Competition in Middle Woodland Societies Circa 50 B.C.–A.D. 350. *American Antiquity* 53(3):565–577.
- 1992a Woodland Traditions in the Midcontinent: A Comparison of Three Regional Sequences. *Research in Economic Anthropology, Supplement* 6:3–46.
- 1992b The Bow and Arrow, the Intrusive Mound Complex, and a Late Woodland Jack’s Reef Horizon in the Mid-Ohio Valley. In *Cultural Variability in Context: Woodland Settlements of the Mid-Ohio Valley*, edited by M. F. Seeman, pp. 41–51. *Midcontinental Journal of Archaeology, Special Paper*, 7. Kent State University Press, Kent, OH.
- 1992c Report on the Age, Affiliation and Significance of the GE Site (12 Po 855). Document submitted to the United States Attorney’s Office. On file with the author.
- 1995 When Words Are Not Enough: Hopewell Interegonialism and the Use of Material Symbols at the GE Mound. In *Native American Interactions: Multiscalar Analyses and Interpretation in the Eastern Woodlands*, edited by M. S. Nassenay and K. E. Sassaman, pp. 122–143. University of Tennessee Press, Knoxville, TN.
- 1997 The Ohio Hopewell Core and Its Many Margins: Deconstructing Upland and Hinterland Relations.

- In *A View from the Core: A Synthesis of Ohio Hopewell Archaeology*, edited by P. J. Pacheco, pp. 304–315. The Ohio Archaeological Council, Inc., Columbus, OH.
- 2004 Hopewell Art in Hopewell Places. In *Hero, Hawk, and Open Hand: American Indian Art of the Ancient Midwest and South*, edited by R. F. Townsend and R. V. Sharp, pp. 57–71. The Art Institute of Chicago and Yale University Press, Chicago, IL, and New Haven, CT.
- 2007 Predatory War and Hopewell Trophies. In *The Taking and Displaying of Human Body Parts as Trophies by Amerindians*, edited by R. J. Chacon and D. H. Dye, pp. 167–189. Springer Science, New York.
- n.d. Field notes on excavations at the Harness-28 site, Ross County, OH. On file at Kent State University, Kent, OH.
- Seeman, Mark F., and James L. Branch
- 2006 The Mounded Landscapes of Ohio: Hopewell Patterns and Placements. In *Recreating Hopewell*, edited by D. K. Charles and J. E. Buikstra, pp. 106–121. University Press of Florida, Gainesville, FL.
- Seeman, Mark F., and William S. Dancey
- 2000 The Late Woodland Period in Southern Ohio: Basic Issues and Prospects. In *Late Woodland Societies: Tradition and Transformation across the Midcontinent*, edited by T. E. Emerson, D. L. McElrath, and A. C. Fortier, pp. 583–611. University of Nebraska Press, Lincoln, NE.
- Seeman, Mark F., and Frank Soday
- 1980 The Russell Brown Mounds: Three Hopewell Mounds in Ross County, OH. *Mid-Continental Journal of Archaeology* 5(1):73–116.
- Senior, Louise M.
- 1994 Babes in the Hood: Concepts of “Personhood” and the Spatial Segregation of Infants from Adults in Archaeological Burial Practices. Paper presented at the annual meetings of the Society for American Archaeology, Anaheim, CA.
- Sered, Susan Starr
- 1994 *Priestess, Mother, Sacred Sister: Religions Dominated by Women*. Oxford University Press, New York, NY.
- Service, Elman
- 1962 *Primitive Social Organization: An Evolutionary Perspective*. Random House, New York.
- Setzler, Frank M.
- 1960 Welcome Mound and the Effigy Pipes of the Adena People. *West Virginia Archaeologist* 12:4–14.
- Shane, A.
- 1984 Power in Their Hands: The Gitsontk. In *The Tsimshian: Images of the Past, Views for the Present*, edited by M. Seguin, pp. 160–173. University of British Columbia Press, Vancouver.
- Shetrone, Henry Clyde
- 1922–1925 The Hopewell Group. Field notes on file at the Ohio Historical Society Department of Archaeology, Columbus, Ohio.
- 1922 Field Notes: The Hopewell Group (Accession #283). Document on file at the Ohio Historical Center, Columbus, Ohio.
- 1923a Field Notes: The Hopewell Group (Accession #283). Document on file at the Ohio Historical Center, Columbus, Ohio.
- 1923b Exploration of the Campbell Island Village Site and the Hine Mound and Village Site. *Ohio State Archaeological and Historical Quarterly*, 32: 434–467.
- 1924 Field Notes: The Hopewell Group (Accession #283). Document on file at the Ohio Historical Center, Columbus, Ohio.
- 1925 Field Notes: The Hopewell Group (Accession #283). Document on file at the Ohio Historical Center, Columbus, Ohio.
- 1926a Explorations of the Hopewell Group of Prehistoric Earthworks. *Ohio State Archaeological and Historical Quarterly* 35:1–227.
- 1926b Field Notes: The Seip Site. Document on file at the Ohio Historical Center, Columbus, Ohio (Accession #957).
- 1936 *The Mound Builders*. D. Appleton-Century Company, New York, NY.
- Shetrone, Henry C. and Emerson F. Greenman
- 1931 Explorations of the Seip Group of Prehistoric Earthworks. *Ohio State Archaeological and Historical Quarterly* 40:343–509.
- Shields, Wayne F.
- 1979 The Ogden-Fettie Site: An Archaeographic Compendium. Manuscript on file, Illinois State Museum at Dickson Mounds, Lewistown, IL.
- Shimada, Izumi, Ken-ichi Shinoda, Julie Farnum, Robert-Corrucini, and Hirokatsu Watanabe
- 2004 An Integrated Analysis of Pre-Hispanic Mortuary Practices: A Middle Sicán Case Study. *Current Anthropology* 45(3):369–402.
- Shipman, Pat, Alan Walker, and David Bichell
- 1985 *The Human Skeleton*. Harvard University Press, Cambridge, MA.
- ShupSheWana
- 2007 *The Good Red Road: Native American Teachings from the Great Lakes Shared by ShupSheWana* <http://www.mgzi.net/native/draft/pdf>.
- Shweder, R. A., and R. A. LeVine
- 1984 *Culture Theory: Essays on Mind, Self, and Emotion*. Cambridge University Press, New York, NY.
- Silverberg, Robert
- 1968 *Mound Builders of Ancient America: The Archaeology of a Myth*. New York Graphic Society, Greenwich.
- Skinner, Alanson B.
- 1913 Social Life and Ceremonial Bundles of the Menomini. American Museum of Natural History, *Anthropological Papers*, 13(1). New York.
- 1915 Associations and Ceremonies of the Menomini Indians. American Museum of Natural History, *Anthropological Papers* 13(2):167–215.

- 1920 Medicine Ceremonies of the Menomini and Wahpeton Dakota. *Indian Notes and Monographs* 4:15–188. Museum of the American Indian, Heye Foundation, New York, NY.
- 1921 Material Culture of the Menominee. *Indian Notes and Monographs, Miscellaneous Series* 20(1). Museum of the American Indian, Heye Foundation, New York.
- 1923 The Mascoutens or Prairie Potawatomi: Part I, Social Life and Ceremonies. Public Museum of the City of Milwaukee, *Bulletin* 6(1):1–262. Milwaukee, WI.
- 1924 The Mascoutens or Prairie Potawatomi Indians. *Bulletin of the Public Museum of the City of Milwaukee* 6(1):1–262. Milwaukee, WI.
- Skokstad, Marilyn in collaboration with David Cateforis  
2005 *Art History*, 2<sup>nd</sup> edition. Pearson/Prentice Hall, Upper Saddle River, NJ.
- Smith, Arthur George  
1964 An Adena Effigy Pipe. *Ohio Archaeologist* 14(1):26–27.
- Smith, Beverly A.  
1985 The Use of Animals at the 17<sup>th</sup> Century Mission of St. Ignace. *The Michigan Archaeologist* 31: 97–122.
- Smith, Bruce D.  
1985 *Chenopodium berlandieri* spp. *jonesianum*: Evidence for a Hopewellian Domesticated from Ash Cave, Ohio. *Southeastern Archaeology* 4(2): 107–133.  
1986 The Archaeology of the Southeastern United States: From Dalton to De Soto, 10,500–500 B.P. *Advances in World Archaeology* 5:1–92.  
1992 *Rivers of Change: Essays on Early Agriculture in Eastern North America*. Smithsonian Institution Press, Washington, DC.  
1995 *The Emergence of Agriculture*. Scientific American Library, New York, NY.  
2006 Household, Community, and Subsistence in Hopewell Research. In *Recreating Hopewell*, edited by D. K. Charles and J. E. Buikstra, pp. 491–509. University Press of Florida, Gainesville, FL.
- Smith, B. Holly  
1991 Standards of Human Tooth Formation and Dental Age Assessment. In *Advances in Dental Anthropology*, edited by M. A. Kelley and C. S. Larsen, pp. 143–168. Wiley-Liss, New York, NY.
- Smith, Marvin T., and Julie Barnes Smith  
1989 Engraved Shell Masks in North America. *Southeastern Archaeology* 8(1):9–18.
- Smucker, I.  
1881 Mound Builders' Works near Newark, Ohio. *American Antiquarian* 3(4):261–270.
- Snow, Charles  
1943 Craniometric Data Sheets for Ohio Hopewell Skeletons. Document on file at the Ohio Historical Center, Columbus, Ohio, and with Lyle Konigsberg, Department of Anthropology, University of Tennessee, Knoxville.
- Snyder, John Francis  
1877 Deposits of Flint Implements. *Annual Report to the Board of Regents of the Smithsonian Institution for the Year 1876*, pp. 433–441. U.S. Government Printing Office, Washington, DC.  
1883 Indian Remains in Cass County, Illinois. *Annual Report to the Board of Regents of the Smithsonian Institution for the Year 1881*, pp. 568–579. U.S. Government Printing Office, Washington, DC.  
1893 Buried Deposits of Hornstone Disks. *The Archaeologist* 1:181–186.  
1895a A Group of Illinois Mounds. *The Archaeologist* 3(3):77–81  
1895b A Group of Illinois Mounds. *The Archaeologist* 3(4):109–113.  
1898 A Group of Illinois Mounds. *The American Archaeologist* 2:16–23.
- Sonnefeld, J.  
1962 Interpreting the Function of Primitive Implements. *American Antiquity* 28:56–65.
- Speck, Frank G.  
1931 *A Study of the Delaware Indian Big House Ceremony in Native Text Dictated by Witapano|xwe*. Pennsylvania Historical Commission, *Publications*, v.2, Harrisburg, PA.  
1937 Montagnais Art in Birch-Bark: A Circumpolar Trait. *Indian Notes and Monographs* 11(2). Museum of the American Indian, Heye Foundation, New York.  
1950 Concerning Iconography and the Masking Complex in Eastern North America. University of Pennsylvania Museum, *Bulletin* 15:7–57.
- Spence, Michael W.  
1974 Residential Practices and the Distribution of Skeletal Traits in Teotihuacan, Mexico. *Man*, New Series 9(2):262–273.
- Spence, Michael W., and Brian J. Fryer  
2005 Hopewellian Silver and Silver Artifacts from Eastern North America: Their Sources, Procurement, Distribution, and Meanings. In *Gathering Hopewell: Society, Ritual, and Ritual Interaction*, edited by C. Carr and D. T. Case, pp. 714–733. Kluwer Academic/Plenum Publishers, New York.
- Spielmann, Katherine A.  
1998 Ritual Craft Specialists in Small-Scale Societies. In *Craft and Social Identity*, edited by C. L. Costin and R. P. Wright, pp. 153–159. American Anthropological Association, *Archaeological Papers*, 8. American Anthropological Association, Arlington, VA.  
2002 Feasting, Craft Specialization, and the Ritual Mode of Production in Small-Scale Societies. *American Anthropologist* 104(1):195–207.
- Spindler, Konrad  
1993 *The Man in the Ice*. Weidenfeld and Nicolson, London.  
1996 *The Man in the Ice: The Discovery of a 5,000 Year Old Body Reveals the Secrets of the Stone Age*. Three Rivers Press, Random House, Inc., New York.

- Spindler, Louise S.  
1978 Menominee. In *Handbook of North American Indians*, edited by B. G. Trigger, pp. 708–724. vol. 15, *Northeast*. Smithsonian Institution Press, Washington, DC.
- Squier, Ephraim G.  
1851 The Serpent Symbol, and the Worship of the Reciprocal Principles of Nature in America. *American Archaeological Researches*, 1. George P. Putnam, New York, NY.
- Squier, Ephraim G., and Edwin H. Davis  
1848 Ancient Monuments of the Mississippi Valley Comprising the Results of Extensive Original Surveys and Explorations. *Smithsonian Contributions to Knowledge*, 1. Smithsonian Institution, Washington, DC.
- Stafford, Barbara D., and Mark B. Sant  
1985 Smiling Dan: Structure and Function at a Middle Woodland Settlement in the Illinois Valley. *Research Series 2*. Kampsville Archaeological Center, Kampsville, IL.
- Stansbery, David H.  
1965 The Molluscan Fauna. In *The McGraw Site: A Study in Hopewellian Dynamics*, edited by O. Prufer, D. H. McKenzie, O. Pi-Sunyer, H. C. Cutler, R. A. Yarnell, P. W. Parmalee, and D. H. Stansbery, pp. 119–124. *Scientific Publications, New Series* 4(1). Cleveland Museum of Natural History, Cleveland, OH.
- Steinhilper, Judy, and DeeAnne Wymer  
2006 Paleoethnobotany at Brown's Bottom No. 1. Paper presented at the Midwest Archaeological Conference, Urbana, IL, October.
- Stevenson, Christopher M., Ihab Abdelrehim, and Steven W. Novak  
2004 High Precision Measurement of Obsidian Hydration Layers on Artifacts from the Hopewell Site Using Secondary Ion Mass Spectrometry. *American Antiquity* 69(3):555–568.
- Stevenson, P. H.  
1924 Age Order of Epiphyseal Union in Man. *American Journal of Physical Anthropology* 7:53–93.
- Steward, Julian H.  
1955 *Theory of Culture Change*. University of Illinois, Urbana, IL.  
1960 John Reed Swanton, February 19, 1873-May 2, 1958. National Academy of Sciences (U.S.), *Biographical Memoirs* 34: 328–349.
- Stewart, T. Dale  
1979 *Essentials of Forensic Anthropology: Especially as Developed in the United States*. Charles C. Thomas, Springfield, IL.
- Stone, Anne C., George R. Milner, S. Pääbo, and M. Stoneking  
1996 Sex Determination of Ancient Human Skeletons Using DNA. *American Journal of Physical Anthropology* 99:231–238.
- Stothers, David M., and Timothy J. Abel  
1993 Archaeological Reflections of the Late Archaic and Early Woodland Time Periods in the Western Lake Erie Region. *Archaeology of Eastern North America* 21:25–109.
- Straus, William L.  
1927 The Human Ilium: Sex and Stock. *American Journal of Physical Anthropology* 11(1):1–28.
- Struever, Stuart  
1960 The Kamp Mound Group and a Hopewell Mortuary Complex in the Lower Illinois Valley. Master's thesis, Northwestern University.  
1964 The Hopewell Interaction Sphere in Riverine-Western Great Lakes Culture History. In *Hopewellian Studies*, edited by J. Calwell and R. L. Hall, pp. 86–106. *Scientific Papers*, 12. Illinois State Museum.  
1965 Middle Woodland Culture History in the Great Lakes Riverine Area. *American Antiquity* 31(2):211–223.  
1968a Woodland Subsistence-Settlement Systems in the Lower Illinois Valley. In *New Perspectives in Archaeology*, edited by S. R. Binford and L. R. Binford, pp. 285–312. Aldine, Chicago.  
1968b Problems, Methods, and Organization: A Disparity in the Growth of Archaeology. In *Anthropological Archeology in the Americas*, edited by B. Meggers, pp. 131–151. Anthropological Society of Washington, Washington, DC.  
2000 Crow Canyon Archaeological Center: Why an Independent, Nonprofit Center Makes Sense. In *The Archaeology Education Handbook: Sharing the Past with Kids*, edited by K. Smandz and S. Smith, pp. 301–314. AltaMira Press and the Society for American Archaeology, Walnut Creek, CA, and Washington, DC.  
2004 Building Independent Archaeological Institutions in Late Twentieth Century America. In *Aboriginal Ritual and Economy in the Eastern Woodlands: Essays in Memory of Howard Dalton Winters*, edited by A. Cantwell, L. A. Conrad, and J. E. Reyman, pp. 27–35. Illinois State Museum *Scientific Papers*, 30, Illinois State Museum, Springfield.  
5. Center for American Archeology, Kampsville, Illinois.
- Struever, Stuart, and Gail L. Houart  
1972 An Analysis of the Hopewell Interaction Sphere. In *Social Exchange and Interaction*, edited by E. N. Wilmsen, pp. 47–147. University of Michigan, Museum of Anthropology, *Anthropological Papers*, 46. Ann Arbor, MI.
- Styles, Bonnie Whatley  
1981 Faunal Exploitation and Resource Selection: Early Late Woodland Subsistence in the Lower Illinois Valley. Northwestern University Archaeological Program, *Scientific Papers*, 3. Northwestern University Archaeological Program, Evanston, IL.
- Styles, Bonnie W., Steven R. Ahler, and Melvin L. Fowler  
1983 Modoc Rock Shelter Revisited. In *Archaic Hunters and Gatherers in the American Midwest*,



- edited by J. L. Phillips and J. A. Brown, pp. 261–297. Academic Press, New York, NY.
- Suchey, Judy M.  
1979 Problems in the Aging of Females Using the Os Pubis. *American Journal of Physical Anthropology* 51:467–470.
- Sullivan, Lynn P.  
1989 Household, Community, and Society: An Analysis of Mouse Creek Settlements. In *Households and Communities*, edited by S. MacEachern, D. Archer, and R. Garvin, pp. 317–327. Proceedings of the 21<sup>st</sup> Annual Chacmool Conference, University of Calgary, Alberta, Canada.
- Sunderhaus, Ted S., and Jack K. Blosser  
2006 Water and Mud and the Recreation of the World. In *Recreating Hopewell*, edited by D. K. Charles and J. E. Buikstra, pp. 134–145. University Press of Florida, Gainesville, FL.
- Suzanne, Charles  
1977 Heritability of Anthropological Characters. *Human Biology* 49:573–580.
- Swan, Caleb  
1856 Position and State of Manners and Arts in the Creek, or Muscogee Nation in 1791. In *Historical and Statistical Information Respecting the History, Condition, and Prospects of the Indian Tribes of the United States: Collected and Prepared under the Direction of the Bureau of Indian Affairs per Act of Congress of March 3rd, 1847*, v.5, edited by Henry R. Schoolcraft, pp. 251–283. J.B. Lippincott, Philadelphia.
- Swan, Jim  
1988 Sacred Places in Nature: One Tool in the Shaman's Medicine Bag. In *Shaman's Path*, edited by G. Doore, pp. 151–159. Shambhala, Boston.
- Swanton, John R.  
1920 Fauna Represented in the Cache-pits. In Indian Village Site and Cemetery near Madisonville, Ohio. *Peabody Museum of American Archaeology and Ethnology Papers*, 8(1), edited by Earnest A. Hooton and Charles C. Willoughby, pp. 32–33. Harvard University, Cambridge.
- 1922 James Mooney. *American Anthropologist* 22(2):209–214.
- 1928 Religious Beliefs and Medical Practices of the Creek Indians. In *Forty-second Annual Report of the Bureau of American Ethnology to the Secretary of the Smithsonian Institution, 1924–1925*, edited by J.W. Fewkes, pp. 473–672. U.S. Government Printing Office, Washington.
- 1931 Source Material for the Social and Ceremonial Life of the Choctaw Indians. Bureau of American Ethnology, *Bulletin*, 103. Smithsonian Institution, Washington, DC.
- 1942 Source Material on the History and Ethnology of the Caddo Indians. Bureau of American Ethnology, *Bulletin*, 132. Smithsonian Institution, Washington, DC.
- 1946 The Indians of the Southeastern United States. Bureau of American Ethnology, *Bulletin*, 137. Smithsonian Institution, U.S. Government Printing Office, Washington.
- 1952 The Indian Tribes of North America. Bureau of American Ethnology Bulletin 145. U.S. Government Printing Office, Washington. [CD101, ©1998 Quintin Publications, Pawtucket]
- Tainter, Joseph A.  
1975 *The Archaeological Study of Social Change: Woodland Systems in West-Central Illinois*. Doctoral dissertation, Department of Anthropology, Northwestern University, Evanston, IL.
- 1977 Woodland Social Change in West-Central Illinois. *Mid-Continental Journal of Archaeology* 2(1):67–98.
- 1978 Mortuary Practices and the Study of Prehistoric Social Systems. *Advances in Archaeological Method and Theory* 4:105–141.
- Tanner, Helen H.  
1999 Henry Rowe Schoolcraft. In *American National Biography*, v.19, edited by John A. Garraty and Mark C. Carnes, pp. 424–425. Oxford University Press, New York.
- Tax, Sol  
1937 The Social Organization of the Fox Indians. In *Social Anthropology of North American Tribes*, edited by F. Eggan, pp. 243–282. University of Chicago Press, Chicago, IL.
- Thew, Heather  
n.d. *The Analysis of the "Great Cache" of Modified Mandibles of the Tremper Mound*. Report on file at the Ohio Historical Center.
- Thomas, Chad R., Christopher Carr, and Cynthia Keller  
2005 Animal-Totemic Clans of Ohio Hopewellian Peoples. In *Gathering Hopewell: Society, Ritual, and Ritual Interaction*, edited by C. Carr and D. T. Case, pp. 339–385. Kluwer Academic/Plenum Publishers, New York, NY.
- Thomas, Cyrus  
1894 Report on the Mound Explorations of the Bureau of Ethnology. *Bureau of American Ethnology, Twelfth Annual Report, 1890–1891*. Washington, D.C.
- Thwaites, Reuben G.  
1896–1901 *The Jesuit Relations and Allied Documents: Travels and Explorations of the Jesuit Missionaries in New France, 1610–1791, Containing the Original French, Latin, and Italian Texts, with English Translations and Notes*. 73 vols. Burrows Brothers, Cleveland. [CD97, ©1998 Quintin Publications, Pawtucket]
- Todd, T. Wingate  
1920 Age Changes in the Pubic Bone I: The Male White Pubis. *American Journal of Physical Anthropology* 3:285–334.
- 1921 Age Changes in the Pubic Bone II. *American Journal of Physical Anthropology* 4: 1–70.
- Todd, T. Wingate and D. W. Lyon, Jr.  
1924 Endocranial Suture Closure: Its Progress and Age Relationship. Part I. Adult Males of White

- Stock. *American Journal of Physical Anthropology* 7:325–384.
- 1925a Cranial Suture Closure: Its Progress and Age Relationship. Part II. Ectocranial Closure in Adult Males of White Stock. *American Journal of Physical Anthropology* 8(1):23–45.
- 1925b Cranial Suture Closure: Its Progress and Age Relationship. Part III. Ectocranial Closure in Adult Males of Negro Stock. *American Journal of Physical Anthropology* 8(1):47–71.
- 1925c Cranial Suture Closure: Its Progress and Age Relationship. Part IV. Ectocranial Closure in Adult Males of Negro Stock. *American Journal of Physical Anthropology* 8(1):149–168.
- Tooker, Elisabeth  
1971 Clans and Moieties in North America. *Current Anthropology* 12(3):357–376.
- Townsend, Richard F.  
2004 American Landscapes, Seen and Unseen. In *Hero, Hawk, and Open Hand: American Indian Art of the Ancient Midwest and South*, edited by R. F. Townsend and R. V. Sharp, pp. 15–35. The Art Institute of Chicago and Yale University Press, Chicago, IL, and New Haven, CT.
- Townsend, Richard F., and Robert V. Sharp (editors)  
2004 *Hero, Hawk, and Open Hand: American Indian Art of the Ancient Midwest and South*. The Art Institute of Chicago and Yale University Press, Chicago, IL, and New Haven, CT.
- Triandis, Harry C.  
1989 The Self and Social Behavior in Differing Cultural Contexts. *Psychological Review* 96(3): 506–520.
- Trigger, Bruce G.  
1969 *The Huron Farmers of the North*. Holt, Rinehart, and Winston, New York, NY.  
1978 *Handbook of North American Indians*, vol. 15. *Northeast*. Smithsonian Institution, Washington, DC.  
Tringham, Ruth E.  
1972 Introduction: Settlement Patterns and Urbanization. In *Man, Settlement and Urbanism*, edited by Peter J. Ucko et al., pp. xix–xxviii. Duckworth, London, UK.
- Tringham, Ruth E.  
1972 Introduction: Settlement Patterns and Urbanization. In *Man, Settlement and Urbanism*, edited by Peter J. Ucko et al., pp. xix–xxviii. Duckworth, London, UK.
- Trowbridge, C. C.  
1939 *Shawnee Traditions*, edited by V. Kinietz and E. W. Voeglin. University of Michigan, Museum of Anthropology, *Occasional Contributions* 9.
- Tukey, John W.  
1977 *Exploratory Data Analysis*. Addison-Wesley, Reading, MA.  
1979 Comment to “Nonparametric Statistical Data Modeling”. *Journal of the American Statistical Association* 74:121–122.  
1980 We Need Both Exploratory and Confirmatory. *American Statistician* 34(1):23–25.
- Tukey, John W., and M. B. Wilk  
1970 Data Analysis and Statistics: Techniques and Approaches. In *The Quantitative Analysis of Social Problems*, edited by E. R. Tuft, pp. 370–390. Addison-Wesley, Reading, MA.
- Turff, Gina, and Christopher Carr  
1997 *A Synthesis of Middle Woodland Panpipes in Eastern North America*. Master’s thesis, Trent University, Trent, ON, Canada.  
2005 Hopewellian Panpipes from Eastern North America: Their Social, Ritual, and Symbolic Significance. In *Gathering Hopewell: Society, Ritual, and Ritual Interaction*, edited by C. Carr and D. T. Case, pp. 648–695. Kluwer Academic/Plenum Publishers, New York, NY.
- Turner, Christopher S.  
2000 *Hopewell Subsistence Scheduling: The Ohio Geometric Earthworks As Calendrical Devices*. Poster presented at the Perspectives on the Middle Woodland at the Millennium Conference, Center for American Archaeology, held at Pere Marquette State Park, Grafton, IL. July.
- Turner, Jonathan H.  
1991 *The Structure of Sociological Theory*. Wadsworth Publishing Co., Belmont, CA.
- Turner, Ralph H.  
1962 Role-Taking: Processes versus Conformity. In *Human Behavior and Social Processes*, edited by A. Rose, pp. 20–40. Houghton Mifflin, Boston, MA.
- Turner, Victor  
1969 *The Ritual Process*. Cornell University Press, New York, NY.
- Ubelaker, Douglas H.  
1989 The Estimation of Age at Death from Immature Human Bone. In *Age Markers in the Human Skeleton*, edited by M. Y. Işcan, pp. 55–70. Charles C. Thomas, Springfield, IL.
- Ullman, Kyle L.  
1985 The Ceramics from the Kramer Village Site (33Ro33), Ross County, Ohio. *Kent State Research Papers in Archaeology*, 5.
- van Gennep, Arnold  
1909 *Les Rites de Passage*. Emile Nourry, Paris.  
1960 (orig. 1909) *The Rites of Passage*. Translated by M. B. Vizedom and B. L. Caffee. University of Chicago Press, Chicago, IL.
- Varien, Mark D.  
1999 *Sedentism and Mobility in a Social Landscape*. University of Arizona Press, Tucson, AZ.
- Venum, Thomas Jr.  
1982 The Ojibway Dance Drum: Its History and Construction. *Smithsonian Folklife Studies*, 2. Smithsonian Institution, Washington, DC.
- ver Steeg, Karl  
1946 The Teays River. *The Ohio Journal of Science* 45(6):297–307.
- Vickery, Kent D.  
1983 The Flint Sources. In *Recent Excavations at the Edwin Harness Mound, Liberty Works, Ross County, Ohio*, by N’omi Greber, pp. 73–85.

- Midcontinental Journal of Archaeology, *Special Paper*, 5.
- Vickery, Kent D., and Ted S. Sunderhaus  
2004 Intrasite Variability and Flint Raw Material Distribution at Fort Ancient. In *The Fort Ancient Earthworks*, edited by Robert P. Connolly and Bradley T. Lepper, pp. 167–193. Ohio Historical Society, Columbus, OH
- Vitebsky, Piers  
1995 *Shamanism*. University of Oklahoma Press, Norman, OK.
- Vizenor, Gerald  
1981 *Summer in the Spring: Ojibwe Lyric Poems and Tribal Stories*. Nodin Press, Minneapolis, MN.
- Volk, Ernest  
1905 Field Notes: Explorations on Turner Farm, Ohio. Document on file at the Peabody Museum, Harvard University, Cambridge, MA (X-File 05–5).
- von Gernet, Alexander, and Peter Timmins  
1987 Pipes and Parakeets: Constructing Meaning in an Early Iroquoian Context. In *Archaeology as Long-Term History*, edited by I. Hodder, pp. 31–42. Cambridge University Press, Cambridge, UK.
- Voss, Jerome A.  
1980 *Tribal Emergence During the Neolithic of Northwestern Europe*. Doctoral dissertation, University of Michigan. Ann Arbor, MI.  
1982 A Study of Western TRB Social Organization. *Berichten van de Rijksdienst voor het Oudheidkundige Bodemonderzoek* 32:9–102.
- Wagner, Gail  
1978 An Archaeological Analysis of Five Sites in the Mammoth Cave Area. Masters' essay, Department of Anthropology, Washington University, St. Louis, MO.
- Walker, Phillip L., J.R. Johnson, and Patricia M. Lambert  
1988 Age and Sex Biases in the Preservation of Human Skeletal Remains. *American Journal of Physical Anthropology* 76:183–188.
- Wallace, Anthony  
1966 *Religion: An Anthropological View*. Random House, New York, NY.
- Walsh, Roger  
1990 *The Spirit of Shamanism*. Jeremy P. Tarcher, Inc., Los Angeles.
- Walthall, John A.  
1980 *Prehistoric Indians of the Southeast: Archaeology of Alabama and the Middle South*. University of Alabama Press, University, AL.  
1981 Galena and Aboriginal Trade in Eastern North America. Illinois State Museum, *Scientific Papers*, 17. Illinois State Museum, Springfield, IL.
- Walthall, John A., Stephen H. Stow, and Marvin J. Karson  
1979 Ohio Hopewell Trade: Galena Procurement and Exchange. In *Hopewell Archaeology: The Chillicothe Conference*, edited by D. S. Brose and N. Greber, pp. 247–253. The Kent State University Press, Kent, OH.
- Waring, Antonio J., and Preston Holder  
1945 A Prehistoric Ceremonial Complex in the Southeastern United States. *American Anthropologist* 47(1):1–34.
- Watson, Patty Jo  
1985 The Impact of Early Horticulture in the Upland Drainages of the Midwest and Midsouth. In *Prehistoric Food Production in North America*, edited by R. I. Ford, pp. 99–148. University of Michigan, Museum of Anthropology, *Anthropological Papers* 75. Ann Arbor, MI.
- Web, World-wide  
2006 Various web-sites on the State of Kentucky and its history.  
<http://en.wikipedia.org/wiki/Kentucky>  
[www.netstate.com/states/intro/ky\\_intro.htm](http://www.netstate.com/states/intro/ky_intro.htm)  
[www.uky.edu](http://www.uky.edu)  
[www.wf.pl.org/grc/23/htm](http://www.wf.pl.org/grc/23/htm)
- Webb, William S.  
1940 The Wright Mounds Sites 6 and 7, Montgomery County, Kentucky. The University of Kentucky, Department of Anthropology, *Reports in Anthropology* 5(1).  
1946 Indian Knoll Site, Site Oh 2, Ohio County, Kentucky. University of Kentucky, *Reports in Anthropology* 4(3, Part 1). Department of Anthropology, University of Kentucky, Lexington, KY.  
1950a The Carlson Annis Mound, Site 5, Butler County, Kentucky. University of Kentucky, *Reports in Anthropology* 7(4). Department of Anthropology, University of Kentucky, Lexington, KY.  
1950b The Read Shell Midden, Site 10, Butler County, Kentucky. University of Kentucky, *Reports in Anthropology* 7(5). Department of Anthropology, University of Kentucky, Lexington, KY.
- Webb, William S., and Raymond S. Baby  
1957 *The Adena People No. 2*. Ohio State University Press and the Ohio Historical Society, Columbus, OH.
- Webb, William S., and William G. Haag  
1939 The Chiggerville Site, Site 1, Ohio County, Kentucky. University of Kentucky, *Reports in Anthropology* 4(1). Department of Anthropology, University of Kentucky, Lexington, KY.  
1940 Cypress Creek Villages, Sites 11 and 12, McLean County, Kentucky. University of Kentucky, *Reports in Anthropology* 4(2). Department of Anthropology, University of Kentucky, Lexington, KY.  
1947 Archaic Sites in McLean County, Kentucky. University of Kentucky, *Reports in Anthropology* 7(1). Department of Anthropology, University of Kentucky, Lexington, KY.
- Webb, William S., and Charles E. Snow  
1945 *The Adena People*. *Reports in Anthropology and Archaeology*, 6. University of Kentucky, Lexington, KY.  
1974 *The Adena People*. University of Tennessee Press, Knoxville. Originally published in the University of Kentucky, *Reports in Anthropology and Archaeology*, 6.



- Weets, Jaimin, Christopher Carr, David Penney, and Gary Cariveau  
2005 Smoking Pipe Compositions and Styles as Evidence of the Social Affiliations of Mortuary Ritual Participants at the Tremper Site, Ohio. In *Gathering Hopewell: Society, Ritual, and Ritual Interaction*, edited by C. Carr and D. T. Case, pp. 533–552. Kluwer Academic/Plenum Publishers, New York, NY.
- Weller, Ryan J., and Annette Ericksen  
2005 Data Recovery at the Haven Site (33DL1448) Located in Liberty Township, Delaware County, Ohio. Report submitted to the Delaware County Sanitary Engineer's Office by Weller & Associates, Inc. On file in the Ohio Historic Preservation Office, Columbus, OH.
- Werren, J. E.  
1878 Report of the Survey of Ancient Earthworks near Osborn, Ohio. Central Ohio Scientific Association, *Proceedings*, 1, Pt. 1:52–61 Plus map.
- Whallon, Robert  
1984 Unconstrained Clustering for the Analysis of Spatial Distributions in Archaeology. In *Intrasite Spatial Analysis*, edited by H. J. Hietala, pp. 242–277. Cambridge University Press, Cambridge, UK.
- Wheeler, R. E. Mortimer  
1950 What Matters in Archaeology. *Antiquity* 24: 122–130.
- White C.D.  
2005 Gendered Food Behaviour among the Maya: Time, Place, Status and Ritual. *Journal of Social Archaeology* 5: 356–382.
- White C.D., D. M., Pendergast, F. J. Longstaffe, and K R. Law  
2001 Social Complexity and Food Systems at Altun Ha, Belize: The Isotopic Evidence. *Latin American Antiquity* 12: 371–394.
- White, Christine D., Michael W. Spence, Fred J. Longstaffe, and Kimberley R. Law  
2002 Geographic Identities of the Sacrificial Victims from the Feathered Serpent Pyramid, Teotihuacan: Implications for the Nature of State Power. *Latin American Antiquity* 13(2):217–236.
- White, Christine D., Michael W. Spence, Fred J. Longstaffe, and Kimberley R. Law  
2004 Demography and Ethnic Continuity in the Tlailotlacan Enclave of Teotihuacan: The Evidence from Stable Oxygen Isotopes. *Journal of Anthropological Archaeology* 23:385–403.
- White, Tim D. and Pieter A. Folkens  
1991 *Human Osteology*. Academic Press, San Diego, CA.
- Whitley, David S. and James D. Keyser  
2003 Faith in the Past: Debating an Archaeology of Religion. *Antiquity* 77(296):385–393.
- Whitman, Janice  
1977 Kohl Mound, A Hopewellian Mound in Tuscarawas County. *Ohio Archaeologist* 27(3): 4–8.
- Whittlesey, Charles  
1838 Works near Newark. Unpublished field notes on file, Western Reserve Historical Society, Mss 2872, *Container* 2. Cleveland, OH.  
1851 Descriptions of Ancient Works in Ohio. *Smithsonian Contributions to Knowledge*, 2. Smithsonian Institution, Washington, D.C.
- Wiant, Michael D.  
2000 Hopewell and the Dark Black Glass Revisited. Paper presented at the conference, Middle Woodland at the Millennium, Pere Marquette State Park, IL, July. Sponsored by the Center for American Archaeology, Kampsville, IL.
- Wilcox, David R.  
1991 Hohokam Social Complexity. In *Chaco and Hohokam*, edited by P. L. Crown and W. J. Judge, pp. 253–275. School of American Research, Santa Fe, NM.
- Willey, Gordon, and Jeremy Sabloff  
1980 *A History of American Archaeology*. W. H. Freeman, San Francisco.
- Williamson, Ronald F., and Susan Pfeiffer (editors)  
2003 Bones of the Ancestors: The Archaeology and Osteobiography of the Moatfield Ossuary, *Mercury Series Archaeology, Paper*, 163. Canadian Museum of Civilization, Gatineau, Quebec.
- Willoughby, Charles C.  
1916 The Art of the Great Earthwork Builders of Ohio. *Annual Report*, Smithsonian Institution, Washington, DC.
- Willoughby, Charles C.  
1922 The Turner Group of Earthworks, Hamilton County, Ohio. With Notes on the Skeletal Remains by Earnest A. Hooton. Peabody Museum of American Archaeology and Ethnology, *Papers* 8(3): 1–132.
- Wilson, John N.  
1868 Mounds near Newark. In Isaac Smucker Scrap Book, pp. 69–71. Manuscript on file, Granville Public Library, Granville, OH.
- Winkelman, Michael J.  
1989 A Cross-cultural Study of Shamanic Healers. *Journal of Psychoactive Drugs* 2(1):17–24.  
1990 Shamans and Other “Magico-Religious” Healers: A Cross-Cultural Study of Their Origins, Nature, and Social Transformations. *Ethos* 18(3): 308–352.  
1992 Shamans, Priests, and Witches: A Cross-cultural Study of Magico-Religious Practitioners. *Anthropological Research Papers*, 44. Arizona State University, Tempe, AZ.
- Winters, Howard D.  
1959 The Archaic Period. In Illinois Archaeology, pp. 9–16. Illinois Archaeological Survey, *Bulletin*, 1.  
1968 Value Systems and Trade Cycles of the Late Archaic in the Midwest. In *New Perspectives in Archaeology*, edited by S. R. Binford and L. R. Binford, pp. 175–221. Aldine, Chicago.

- 1969 The Riverton Culture: A Second Millennium Occupation in the Central Wabash Valley. Illinois State Museum and Illinois Archaeological Survey, *Reports of Investigation*, 13. Springfield, IL.
- Wisseman, Sarah U., Duane M. Moore, Randall E. Hughes, Mary R. Hynes and Thomas E. Emerson  
2002 Mineralogical Approaches to Sourcing Pipes and Figurines from the Eastern Woodlands, U.S.A. *Geoarchaeology: An International Journal* 17(7):689–715.
- Witthoft, John  
1967 Glazed Polish on Flint Tools. *American Antiquity* 32:383–388.
- Wobst, Martin  
1974 Boundary Conditions for Paleolithic Social Systems: A Simulation Approach. *American Antiquity* 39:147–178.
- Woodward, S. L., and J. N. MacDonald  
2002 *Indian Mounds of the Middle Ohio Valley*, 2nd edition. M&W Publishing Co., Blackburg, VA.
- Wray, Donald, and Richard S. MacNeish  
1961 The Hopewellian and Weaver Occupations of the Weaver Site, Fulton County, Illinois. Illinois State Museum, *Scientific Papers*, 7.
- Wylie, A.  
1992 The Interplay of Evidential Constraints and Political Interests: Recent Archaeological Research on Gender. *American Antiquity* 57(1):15–35.
- Wymer, DeeAnne  
1987 *The Paleoethnobotanical Record of Central Ohio – 100 B.C. to A.D. 800: Subsistence Continuity and Cultural Change*. Doctoral dissertation, Department of Anthropology, The Ohio State University, Columbus, OH.
- 1988 Woodland Paleoethnobotany of the Ohio Valley Appalachian Plateau. Paper presented at the Southeastern Archaeological Conference, November, New Orleans, LA.
- 1992 Trends and Disparities: The Woodland Paleoethnobotanical Record of the Mid-Ohio Valley. In *Cultural Variability in Context*, edited by M. F. Seaman, pp. 65–76. *Midcontinental Journal of Archaeology, Special Paper*, 7. Kent State University Press, Kent, OH.
- 1996 The Ohio Hopewell Eoniche: Human-Land Interaction in the Core Area. In *A View from the Core: A Synthesis of Ohio Hopewell Archaeology*, edited by P. J. Pacheco, pp. 36–52. Ohio Archaeological Council, Columbus, OH.
- 1997 Paleoethnobotany in the Licking River Valley, Ohio: Implications for Understanding Ohio Hopewell. In *Ohio Hopewell Community Organization*, edited by W. S. Dancy and P. J. Pacheco, pp. 153–171. Kent State University Press, Kent, OH.
- Wymer, DeeAnne, and Elliot Abrams  
2003 Early Woodland Plant Use and Gardening: Evidence from an Adena Hamlet in South-eastern Ohio. *Midcontinental Journal of Archaeology* 28(2):175–194.
- Wymer, DeeAnne, and Sissel Johannessen  
2002 Growing the World in Their Image: The Evolutionary Trajectory of Hopewell Plant Utilization. Paper presented at the annual meeting of the Society for American Archaeology, Milwaukee, WI.
- Yarnell, Richard A.  
1965 Wild Plant Remains. In *The McGraw Site: A Study in Hopewellian Dynamics*, by O. Pruffer, D. H. McKenzie, O. Pi-Sunyer, H. C. Cutler, R. A. Yarnell, P. W. Parmalee, and D. H. Stansbery, pp. 113–114. Cleveland Museum of Natural History, *Scientific Publications, New Series* 4(1). Cleveland, OH.
- 1969 Contents of Human Paleofeces. In *The Prehistory of Salts Cave, Kentucky*, by P. J. Watson, pp. 41–53. Illinois State Museum, *Reports of Investigation*, 16.
- 1974a Plant Food and Cultivation of the Salts Cavers. In *Archaeology of the Mammoth Cave Area*, edited by P. J. Watson, pp. 113–122. Academic Press, New York, NY.
- 1974b Intestinal Contents of the Salts Cave Mummy and Analysis of the Initial Salts Cave Flotation Series. In *Archaeology of the Mammoth Cave Area*, edited by P. J. Watson, pp. 109–112. Academic Press, New York, NY.
- Yeatts, Michael L.  
1990 A Chemical Characterization of the Ceramics from the McGraw Site in Ohio with the Electron Microprobe. Master's thesis, Department of Anthropology, Arizona State University, Tempe, AZ.
- Yellen, John E.  
1974 The !Kung Settlement Pattern: An Archaeological Perspective. Doctoral dissertation, Department of Anthropology, Harvard University, Cambridge, MA.
- 1977 *Archaeological Approaches to the Present: Models for Reconstructing the Past*. Academic Press, New York, NY.
- Yerkes, Richard W.  
1988 The Woodland and Mississippian Tradition in the Prehistory of Midwestern North America. *Journal of World Prehistory* 2:307–358.
- 1990 Using Microwear Analysis to Investigate Domestic Activities and Craft Specialization at the Murphy Site, a Small Hopewell Settlement in Licking County, Ohio. In *The Interpretive Possibilities of Microwear Studies*, edited by K. Knutsson and J. Taffinder, pp. 167–176. Aun 14, Societas Archaeologica Upsaliensis, Uppsala, Sweden.
- 1994 A Consideration of the Function of Ohio Hopewell Bladelets. *Lithic Technology* 19(2): 109–127.
- 2005 Bone Chemistry, Body Parts, and Growth Marks: Evaluating Ohio Hopewell and Cahokia Mississippian Seasonality, Subsistence, Ritual, and Feasting. *American Antiquity* 70(2):241–265.

Zeisberger, David

1910 David Zeisberger's History of the North American Indians 1779–1780. *Ohio Archaeological and Historical Quarterly* 19(1–2):1–173. Edited by A. B. Hulbert and W. N. Schwarze. Columbus, OH.

Zurel, Richard

2002 Signature Theory and the Symbolic Content of Hopewell Icons. Paper presented at the annual meeting of the Midwest Archaeological Conference, Columbus, OH, October.