The Perfume of Garbage: Modernity and the Archaeological

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The World Trade Center and the Paradox of Garbage

There is something profoundly archaeological about the experience of 9/11 and its aftermath. Less than a month after the attack a meeting of representatives of thirty-three museums, headed by the Smithsonian and New York's City Museum, considered how they might document the event, asking what things should be collected and preserved for display and for posterity.

A year later an exhibition opened at the Smithsonian; it continues its tour into 2004. “Bearing Witness to History” displays artifacts and associated stories, photographs and documents from the events of 9/11: a battered wallet, a melted computer screen from the Pentagon, torn clothing, a structural joint from the World Trade Center, a window washer’s squeegee handle, a stairwell sign, as well as artifacts associated with the aftermath (commemorative coins, artwork, patriotic ribbons, rescue equipment). Other exhibitions have run at the Museum of the City of New York and the New York State Museum in Albany.

The project was explicitly one of documenting history in the making. Some of this was done with the notion of finding evidence. Actually, and more accurately, the museum curators and archaeologists sought material icons. Each of the artifacts displayed in the Smithsonian exhibition has a story attached, one that ties it to an individual or event that bears significance and pathos. And they certainly evoke. Their aura is very apparent. Each acts as a touchstone; not so much illuminating the topics of political and forensic interest, the exhibits are material corre-
lates for the intimate personal experiences, the individual stories. This is what we mean when we call the things iconic.

Briefcase recovered from the World Trade Center.
Description: A briefcase recovered from the World Trade Center wreckage that belonged to Lisa Lefler, an Aon Risk Services employee.

Context: World Trade Center workers had varied experiences on September 11. While about 2,200 office workers were killed, over 20,000 managed to escape the Twin Towers.

When the first plane struck the north tower, Lisa Lefler, an Aon Risk Services executive, immediately evacuated her 103rd-floor office in the south tower. In her haste she left her briefcase behind. Seventeen minutes after the north tower was hit the south tower was struck, cutting off the escape path above the 78th floor. Fifty-six minutes later, the entire building collapsed, killing 175 of Lefler’s fellow Aon employees.

Several days later, Boyd Harden, a rescue worker at Ground Zero, found the briefcase in the debris and returned it to Lefler.

Here are some associated materials on the exhibition web site:

Partial view of resume found inside briefcase.
As the writing on the clear plastic cover indicates, Boyd Harden found this resume inside Lisa Lefler’s [sic] briefcase, and it allowed Mr. Harden to identify and locate Ms. Lefler [sic]. The resume was tattered but entire. This view has been altered to protect . . .

Notes from the curator’s files about the route of Lisa Lefler’s briefcase and its discovery.
Transcript: found 12-13 Sep by EMT Boyd Harden @ Greenwich St. near O’Hara’s Pub on the street (Albany St.) Bag identified as Lefler’s by resume in bag, found . . .

Photograph: Aon Risk Services employee Lisa Lefler.

Statement from Lisa Lefler:
September 11, 2001. My Recollection. The morning of September 11 started out like any other morning. The train was on time, the path train was crowded. It was a beautiful, sunny fall day. I went to the deli across the street for a bagel before going . . .

Statement from Boyd Harden:
Briefcase Found At WTC On September 13, 2001 The Events Surrounding Lisa Lefler’s Briefcase That I Found At The WTC by Boyd E. Harden At approximately 9:00 AM on September 11, 2001, my wife, who works in New York City (NYC), called me at our apartment . . .

Statement from David Shayt (September 11 Collecting Curator, Museum Specialist, Division of Cultural History):
“. . . not the sort of thing we would collect unless it had some extraordinary, iridescent story.”
There is an intimacy here in the material artifact and its testimony to an everyday event (going to work at the World Trade Center) that became historical. The quotidian becomes the materialization of a historical moment. This is a process of archaeological metamorphosis: mundane things come to carry the baggage of history; they become allegorical. There is also an elision in this process: conventional historiography (of chains of causation, sociopolitical analysis, telling of the unfolding of events on a political stage) slips away, is irrelevant in the confrontation between the banality of everyday life, sentimental association and the apocalyptic (confrontations with horror, death, the clash of civilizations).

The question of what stuff to keep is one of conservation, of value and choice: it is profoundly archaeological, relating to the systems of classification at the core of museology. But the archaeological component of 9/11 is more than just artifacts. The photographs in the New York Times and elsewhere of neighboring apartments abandoned and covered in thick layers of dust as the towers came down are archaeological moments frozen in time just like Pompeii, abandoned to its own disaster.

The twin towers site itself became an icon of ruin: photographs of the remains of the building's steel framework silhouetted against the lights illuminating the search, the clearing operation, the excavation are classic compositions borrowing the aesthetic of a backlit Greek temple colonnade.

All the proposals for rebuilding the site included museums of some kind. The final choice of architect is very telling. Daniel Libeskind is the designer of the Jewish Museum in Berlin, a remarkable memorial to twentieth-century Jewish experience, a building marked by a historiographical component—the past, the old street plan around the museum, and many other features of the architecture of community and holocaust are built into the design of the museum.

Many of the objects in Bearing Witness to History are responses to 9/11: commemorative pins and medals, picks and hard hats from the rescue operation, photographs. The exhibition looks back at the debris of history, but its collection of the memorable is future-oriented: the purpose is to preserve for future generations. There has been great concern that the replacement for the World Trade Center should be a monument of hope and confidence in the future, as well as a commemoration of its origins and the site's past. This again is a characteristic of archaeology. Since at least the late nineteenth century the field has been intimately associated with conservation policy aimed at preserving heritage and material history for the future. This is, for most cultural resource managers, as the professionals are now termed, the primary archaeological project—less the interpretation of the past (that can wait), and more a project to ensure that the remains of the past will endure, in themselves or as some kind of formal and sanctioned record, particularly under the pressure of urban and rural development. This conservation ethic (loss and destruction of the material past is unacceptable) goes unquestioned in the academy and the profession. The Soviet occupation chose to obliterate traces of Hitler's bunker in Berlin in 1945; this kind of destruction of history would be unthinkable now and is even a difficult comparison to make with 9/11, yet both the bunker and the remains of the World Trade Center are
evidence of outrageous and violent aspiration. The difference is, of course, related to
different notions of historicity—the perceived place in history of Americans today and
Soviets in the 1940s.

Many of the objects preserved by the Smithsonian and other museums came from
the evidence recovery operation at the Staten Island Landfill site, commonly known as
Fresh Kills. Here we approach the irony at the heart of the archaeological project. The
twin towers site was designated a scene of crime and the debris was removed to the
newly reopened landfill site on Staten Island to be carefully sifted for evidence, per-
sonal remains and effects, and memorabilia. So, choices having been made and the
valuable retrieved, the debris has been consigned to the biggest garbage tip in the
world. It is certainly the most prominent human artifact visible from space (the Great
Wall of China is quite invisible). Where else could over a million tons of building
rubble be put, it might be argued. Our point is rather that the destination of the debris
is neither incidental nor an embarrassment. Put aside choice of what to keep: this is
the real stuff of archaeology and history—what gets thrown away—garbage.

While a common perception may be that archaeology is a set of techniques aimed
at the recovery of remains of the past, we want to claim these components of the
experience of 9/11 for archaeology—that is, we describe them as archaeological. To
recap: the archaeological refers to ruin and responses to it, to the mundane and quo-
tidian articulated with grand historical scenarios, to materializations of the experience
of history, material aura, senses of place and history, choices of what to keep and what
to let go (remember/forget), the material artifact as allegorical, collections and their
systems, the city and its material cultural capitalizations (investments in pasts and fu-
tures), the intimate connection between all this and a utopian frame of mind (archaeology
is not just about the past, but about desired futures too). And the stuff of it all is garbage.

We have taken 9/11 as an iconic (post)modern event and experience. Implicit then
in our view of it as (partially, though not incidentally) an archaeological event and
experience are two related propositions. First, modernity is unthinkable without its
museal and archaeological component. Second, given the association of archaeology
and garbage, this cultural imaginary is at the heart of the composition and decomposi-
tion of modernity and modernism.

We will not be able to fully defend these propositions here. We have more limited
aims in this paper. Much of our definition of the scope of archaeology goes far beyond
the conventional boundaries of the discipline and is quite simply not accepted by our
colleagues. One of our aims is to account for this irony in contemporary notions of the
archaeological. In spite of garbage being the basis of archaeology, archaeologists have
consistently denied or ignored the resulting implications in favor of other understand-
ings of their project. We will illustrate how others outside the discipline and profession
have realized the archaeological component of modernity. More generally, garbage is
a modern conundrum—while there is more of it than ever and its management is a
great challenge, garbage is hugely misunderstood and popularly ignored (other than
as an environmental issue). Again, we will illustrate some alternate and archaeological
understandings of garbage.
Our previous section has set the scene with an indication of the scope of what we call the archaeological. Prominent in this field is garbage.

Garbage: 99 percent or more of what most archaeologists dig up, record, and analyze in obsessive detail is what past peoples threw away as worthless—broken ceramics, broken or dulled stone tools, tool-making debitage, food-making debris, food waste, broken glass, rusted metal, and on and on. These are society’s material dregs that even those most clever at salvage couldn’t figure a way to use or sell. But ask archaeologists what archaeology focuses on and they will mention “the past” and “artifacts” and “behavior” and “attitudes and beliefs,” but you will rarely, if ever, hear the words “garbage” or “refuse” or “trash” or “junk.”

For most of human time, our predecessors simply dropped items on the ground when they became unwanted. When they began living in permanent settlements, sometimes they threw their discards into old storage pits, dropped them down privies, or even intentionally dug garbage pits to bury them. Less often, only in relatively recent times and at highly populated centers, specialized work groups would expend a great deal of time and trouble to move the larger pieces of detritus from the streets, where they were thrown or abandoned, to a “midden” or “dump” on the outskirts of a city. In return, the “scavengers” who did the moving kept whatever “worthwhile” discards they found in the streets.

To be blunt, forget the adventures of Indiana Jones (another modernist trope)! All archaeologists root around in the remnants and offal of the past. Ever so scientifically, but it is rooting nonetheless. It may be something of a surprise that this connection between archaeology and garbage (archaeologists study garbage) was only firmly made in the 1970s—in the aftermath of a new anthropological turn in the discipline. And the association is still consistently denied and misunderstood.

Nor is the category as self-evident as it may seem. Archaeologists of the prehistory of northern Europe have, in the last decade or so, identified a distinctive category of behavior that cuts across definitions of garbage. “Structured deposition” is the deliberate creation of “archaeological” deposits, the deliberate burying of goods, artifacts, stuff that we might regard as discard, but that was clearly of significance to people in the past. So much so that J. D. Hill has argued that the pits that litter Iron Age sites in the United Kingdom and seem to contain garbage are far from what they seem—are carefully organized depositions rather than random accumulations of family garbage. Here, of course, we need to recognize that concepts of waste are culturally specific, as are notions of purity and dirt.

In 1973, in order to initiate an “archaeology of us,” the “Garbage Project” at the University of Arizona began systematically collecting, sorting through, and recording household refuse as it was put out at the curb. Most archaeologists denied that the Project’s workers were doing archaeology! Some authorities still deny it. Their rationale has usually been that the Project’s garbage wasn’t old enough to be worthy of archaeological analysis. When pressed, these critics would cite the “fifty-year rule” —
mandates legislated around the country that (depending upon the state) artifacts and sites had to be at least twenty-five to fifty years old in order to be considered appropriate grist for an archaeologist’s mill or for government protection.

This seems a strange riddle in itself, since every single day a new batch of materials methodically emerges from the black hole of modern times into the light of archaeological research. It is a significant aspect of the garbage conundrum that archaeologists believe they should wait an arbitrary time to begin research while all kinds of information about how and where and when artifacts and sites were generated—critical information on the most intimate dynamics of our social systems—degrades.\(^6\)

Two articles published by archaeologists in 2002 about “exo-archaeology”—the archaeology of outer space—clearly illustrate that the garbage conundrum is currently alive and well among contemporary archaeologists. They are failing to understand the place of garbage in the field we are calling archaeological. We were interested in what the articles had to say because one of us wrote an essay on “exo-archaeology” in which he mentioned that we earthlings have populated our surrounding space with our own garbage. Actually, we have launched about ten thousand “resident space objects,” such as fifteen hundred upper stage rockets and myriad explosive bolts and clamp bands, along, of course, with urine and “other” bags. Rathje concluded that this high-speed space junk—which is a major hazard to any future flights—is the natural study area of archaeologists.

It was something of a shock to find out that in an article entitled “The Case for Exo-Archaeology,” Vicky A. Walsh wrote that the mission of exo-archaeology was to “evaluate distant worlds for signs of intelligent life” (was this taken from a Star Trek script?—Jean-Luc Picard is a keen amateur archaeologist).\(^5\) The author never mentioned the issue of how to identify alien garbage or, for that matter, our garbage, which is the most prolific sign of our “intelligent” life in space . . . and on Earth!

Even more unexpected was the paper by Greg Fewer, called “Towards an LSMR and MSMR (Lunar and Martian Sites & Monuments Records): Recording the Planetary Spacecraft Landing Sites as Archaeological Monuments of the Future.”\(^9\) Yes, let’s record landing sites for posterity. But what about the myriad threats to our future spacecraft from the voluminous hurtling junk discarded from our past ventures? And it is not just the Americans and the Russians anymore. At the end of September 2003, Europeans launched their first unmanned spacecraft to the moon. China’s program is not far behind, and more space cowboys—and space tourists, like U.S. businessman Dennis Tito who reportedly paid the Russians $20 million for a ride to the international space station and back in 2001—are sure to follow.

To complicate matters further, ask yourself: What kinds of garbage have other space travelers in other parts of our galaxy and beyond discarded that are now hazards to our space travelers? If we are dedicated to continuing the exploration of space, can we continue to ignore such questions? The report from the committee that investigated the tragic Discovery burn-up called for a complete revamping of the safety culture at NASA. Perhaps it is also time to look at NASA’s “garbage culture,” or lack of it.

Our point—archaeologists (and others) are not thinking clearly about garbage.
We do need to be careful with our definitions. We are defining garbage broadly as subsuming themes of ruin, remains, discard, decay, hygiene, dirt, and disease. We are including cognates such as litter, trash, and junk, though we may choose to give these more specific focus.

Why so broad? Because we see garbage as a fundamental part of the field we are calling the archaeological. Why, specifically, should ruin be included? Just think of where modern ruins are. Ask what happens to buildings today. Most landfill sites are dominated by building rubble. Landfill sites are modernity’s ruins.

**Archaeology and Culture**

Tips and middens are the kind of places archaeologists work. Archaeologists sift through detritus. But until the 1970s we seek in vain any explicit recognition of the archaeological site as a garbage heap. This section asks—what has been conceived as the object of archaeology, if not garbage? And how have archaeological sites been conceived?

There is a simple answer, well established, that is associated with the choice archaeologists make of what to keep and study. Archaeologists have usually been seeking items and relationships they consider of value—cultural value. These are often seen as buried within the detritus of ancient sites and lost some time ago, needing rescue, in the face of decay and further loss. The object of archaeology has, for most of the history of the discipline, been seen as “culture,” and its (iconic, metonymic, and metaphorical) representatives.

The establishment of state and national museums from the late eighteenth century certainly created a demand for exceptional works of art. Museums also attended to this demand with their sponsorship of excavations, particularly of the ancient civilizations. This was complemented by the growth of the art market in antiquities. Here the object of archaeological interest was, and often still is, the work of high culture.

Edward Tylor, following German ethnology and *Kulturgeschichte*, delivered a classic anthropological definition of culture in his *Primitive Culture* (1871): “that complex whole which includes knowledge, belief, art, morals, law, custom, and other capabilities and habits acquired by man as a member of society.” Tied to evolutionary theory this concept constituted a new object of archaeology—more mundane material items that could delineate stages of cultural development, from savagery to civilization. From 1880 to 1920 the archaeological site was conceived as repository, with archaeological fieldwork as the ordered retrieval of objects/artifacts, to be the subject of typological study. The prevailing conception of the past was the evolution of culture.

In the early twentieth century, and correlated with a shift in anthropological thought from the notion of history as the evolutionary progression of culture in general to a focus upon individual “ethnographic” cultures (think of Franz Boas), Gustav Kossinna and Gordon Childe pioneered a shift to an interest in locally circumscribed assemblages of goods and culture groups (*HAT*, 163–74). From 1920 to 1960, this culture history aimed to track the origins, movements, and interactions of prehistoric peoples.
through their material culture. History was seen as a geographical mosaic of more or less clearly delineated cultural groups expressed in their goods. With respect to fieldwork, this archaeology required control over time-space systematics (local phasing and the spatial boundaries of local culture groups), hence the refinement of techniques designed to enable the definition of assemblages and culture groups (close attention to qualitative variability), including an emphasis upon stratification to control chronology. The prevailing conception of the past was the history of culture groups; the objects of archaeology were no longer simply the dead fossils of general cultural progress.

We write 1960 as a terminus, but it would be more correct to acknowledge that culture history is still an orthodoxy in many archaeological traditions. Archaeology's nineteenth-century metanarratives of evolution and nationalism and preoccupations with ethnicity and progress (HAT, chapters 4 and 5) are still very powerful hegemonic forces.

At the heart of academic and museum-based archaeology are changing notions of the artifact in relation to the human groups or cultures that produce it, the temporality of culture change/process, and the loci of both: notions of region and site. Classic archaeological topics thus include: specialized approaches to artifact study, typology, function and style, phasing; artifact groups, classification of cultures, ethnicity, the site and settlement, time and culture change, concepts of period and phase, the characterization and archaeological visibility of events, the nature of the archaeological record, deposits and contexts, agency and material culture, comparative method, and analogy.

Walter W. Taylor's book A Study of Archaeology (1948) was part of a polemic for a new functionalist archaeology, more sociological (he called it conjunctive) (HAT, 276). He pointed out that archaeologists in the late 1940s still ignored much material and were overwhelmingly qualitative. He argued that material remains were products of culture rather than culture itself. Like Grahame Clark he wanted to use archaeological finds to reconstruct ancient lives rather than to track ethnic groups. With a revitalized neo-evolutionary theory in the 1950s (led by Leslie White and Julian Steward in particular) came ecological, demographic and technological determinism, but also an explicit shift from artifact-centered culture history to the workings of culture, cultural process. This was the beginnings of New Archaeology. From 1960 the archaeological site came to be treated as a record of behavioral patterns, structured activities to be revealed through close analysis of contextual associations in the material remains. The prevailing view of the past was much more anthropological in its focus upon cultural behavior.

John Myres had recognized in print that archaeologists dealt with a far from complete sample of the remains of the past, and observed that the archaeological record consisted of discarded goods. Grahame Clark had initiated a study of the processes of preservation that make up the archaeological matrix, but it was not until the 1970s that archaeology came to focus on what made it truly distinct—the discard, ruin, loss and decay that constitutes the remains of the past, and upon which archaeologists work.

David Clarke emphasized that archaeology was a disciplinary field distinct from anthropology and history—distinct by virtue of its object. He called for pre- and postdepositional theory and explicitly drew attention to the fragmentary character of archaeological data samples. It was only then that the link between archaeology and
garbage became conceivable. One of us began the Garbage Project, mentioned above; the anthropological turn in the discipline, a posteriori (in the stress upon behavioral rather than historical study), brought the present into the field of archaeology. By 1976 Mike Schiffer was calling for what he called a behavioral archaeology that studied site formation processes, and New Archaeologists, again with their explicit anthropological perspective, began conducting ethnoarchaeological fieldwork to investigate the dynamics of just such processes—discard, rot, ruin, curation, preservation.

What here is the object of archaeological study? It is human behavior and social practices and their relation, through formation processes of the archaeological record to the remains upon which archaeologists work. This field can now explicitly include garbage, conceived as part of the dynamics of archaeological site formation processes. But there is still little emphasis upon such dynamics that are at the heart of the archaeological—discard, decay, ruin. Garbage and site formation processes are conceived as means to an end—metamorphic processes that come between what archaeologists deal with in the present and what they desire—past culture, social process, whatever. In this, site formation processes are a problem or, minimally, something to be overcome, seen through, accounted for, on the way to what is really valued and desired.

As something of an aside, because again we do not have the space to explore it, we note another, and closely related, archaeological irony. That, in spite of the prevalence of goods and the material commodity form in modernity, only recently has the study of material culture emerged as a disciplinary field. Materiality has been conspicuously undertheorized.

A Short History of Modern Garbage

The previous section outlined an irony of contemporary archaeology—that the material basis of history is an embarrassment to the discipline that works upon it. This section describes what is specific about modern conceptions of garbage. It focuses upon the irony and conundrum of contemporary garbage—its ubiquity is denied, ignored and misunderstood, or simply constitutes an embarrassment and a problem. This irony and conundrum unites archaeology and broader cultural attitudes towards garbage.

To describe garbage, our discards, the artifacts that at some point are no longer wanted, we often use the truism “out of sight, out of mind.” That, indeed, seems to be a sincere goal—to totally eradicate our discards. Our utter abhorrence and disdain for refuse is obviously learned, as we are the only species whose members are not magnetically drawn to garbage by its smell and its panoply of colors. Further, no society has ever invested more thought and resources into “getting rid” of its unwanted remains than contemporary America.

But the beginning of the conundrum of garbage is that we haven’t succeeded. We create more refuse per person than any other society (the Canadians, oddly enough, argue vociferously that they throw more away than we do!). Our throwaways are visible everywhere as litter; and containers for castoffs are about as common as street lights outdoors and tables indoors—they are everywhere.
And yet we still seem to remain largely oblivious to litter (what Keep America Beautiful calls “garbage out of place”) and to garbage containers and their contents. There is certainly little systematic understanding of garbage. People don’t really see the garbage—or the implications of the garbage—that they, like everyone around them, generate every day.

For example, the most common truism about garbage—“out of sight, out of mind”—is a part of the garbage conundrum. Just consider Alexandra Martini’s Litter Only: A Book about Dustbins (2000), a stunning compilation of photographs of garbage receptacles (mostly in public places) worldwide—261-plus containers in 249 locales in 130 countries from Hardangervidda, Norway to Ujung Pandang, Indonesia. As the introduction asserts, “look at the container, look how universal the role of the trash can is.” And what is one of the surest correlates of a public trash container? Litter nearby. We each see the contents of indoor garbage cans, even the ones hidden behind the door under the sink.

In point of fact, garbage and garbage containers are almost always in sight.

Consider the garbage realities of contemporary life. We’ll bet good money that there’s a garbage container in most rooms of your house. There are garbage containers in most public spaces and rooms. How far are you at any time from a garbage receptacle in a mall? How often are you more than thirty feet from a garbage receptacle? On an interstate—sure, but garbage containers are more frequent and available than gas for your car or food for you!—and National Parks—the natural beauty is studded with trash containers.

So how do we deal with all this garbage that pervades our lives? This brings up the conundrum again. “Living” reconstructions of the past, where tourists walk through “accurate” replicas of life in previous times, are a very telling example of the way our unspoken concerns about garbage permeate our lives and how much we don’t want garbage “in sight,” even though containers for it are everywhere.

Colonial Williamsburg in Virginia, just outside of Washington, D.C., is called a “living museum” frequented by presidents, potentates and the public alike. Note that the “authentically reconstructed” Early American site is honeycombed with trash containers. And, as part of this scenario, the living museum is constantly crisscrossed by vehicles that collect the day’s trash for disposal.

This site demonstrates that not only is our revulsion for garbage cultural, but that it is growing at an exponential rate. The site’s original inhabitants would have been totally mystified by such behavior. They were accustomed to throwing garbage in the street—in fact, the role of men walking on the street side of women was not started to protect women from being splashed by passing vehicles; instead, the man walked on the outside to take the brunt of the garbage thrown at the street from second-floor windows.

Quite honestly, if Williamsburg were today an accurate reconstruction of Colonial times, it would be closed down within a day for health and safety violations!

Put all this together and you reach the inescapable conclusion about garbage—that we should not be saying, “out of sight, out of mind,” but instead, “we can see it; we don’t like it; get it out of here!”
What does this mean? First, let’s get rid of the concept that garbage means disease. The original late-nineteenth-century rationale for cleaning garbage out of streets was based on the theory of “miasma.” This asserted that “vapors” from filth and refuse were the causes of infection. This led to modern refuse pickup, such as New York City’s under the direction of Colonel Waring in the 1890s. With the arrival of “germ theory,” miasma theory fell by the way—yes, garbage is not hygienic; but it is also not drastically depopulating cities—but the push for immaculate cleanliness lingered on. It has become a main component, indeed a primary rationale for contemporary urban management.

Garbage is in sight everywhere! Perhaps this ubiquity obstructs our understanding of the impact of our lives on the material world around us. Or does garbage represent something that we are truly afraid of? The mortality even of our material possessions, never mind our own material mortality. Things that were eminently useful are constantly being interred as garbage. Is this too relevant to our own lifecycle?

In effect, the biggest problem in “garbage education” is that even though garbage is visible everywhere, most people don’t see it. As a result, there is no way easily to put garbage on people’s radar screens.

A good example is what people think is in landfills. Ask anyone—educators, students (all ages), environmentalists, businessmen, government officials . . . anyone—what takes up the most landfill space, and the most common responses will be Styrofoam, fast food packaging, and disposable diapers. The Garbage Project’s twenty-one landfill digs demonstrate that if you add all three of those landfill villains together, they fill up less than 3 percent of Municipal Solid Waste (MSW) landfill space.

Why are the estimates so wrong? Simple. Those who don’t deal with refuse for their livelihood don’t carefully notice and mentally record the garbage they or other people discard. What forms their mental image of garbage is not what is normally thrown away. Instead, what sticks in their minds about garbage is the garbage that shocks them, and that is garbage out of place—litter. And litter is often Styrofoam, fast food packaging, and disposable diapers (it is our experience that you can usually find a garbage can at a interstate rest stop by looking for the pile of disposable diapers covering it).

The way people perceive garbage is also the reason that newspapers get recycled, but household food waste hasn’t diminished in thirty years. Newspapers are often kept in stacks, so how quickly they build up makes an impression. Food waste is not saved in a corner of the kitchen, so the food preparer and the food consumers are not constantly confronted with the quantities they waste.

The incredible degree to which people can overlook food waste is best illustrated by a study the Garbage Project conducted for the U.S. Department of Agriculture. Sample households were divided into four groups—all households were asked for permission before their refuse was collected and sorted. In the middle of a five-week garbage collection/recording period, householders in three groups were asked to report their edible food discards verbally. Not surprisingly, very few respondents owned up to any food waste; nonetheless, their refuse contained, on average, one-eighth pound of wasted food (not including rinds, peels, skins, bones, etc.) per person per day.
A fourth group of households was given plastic bags and asked to save all the edible food they would have thrown away. They produced one-quarter pound of wasted food per person per day! But there was an even more interesting finding: the households that gave researchers bags of food “waste” still threw away in their garbage cans one-eighth pound of wasted food per person per day. They “invented” food waste for the researchers to collect at the front door and still didn’t see or decrease the food they threw out the back.

But by far the most striking example of how little we recognize our discards is based on watching photographers at landfills wading through garbage at least twenty feet deep. At some point the photographers have to change their film roll or video cartridge. Almost invariably, they rip open the film pack, hold the foil or box for a minute, and then stare up with a quizzical look and ask, “Is there anywhere around here I can throw this?” The answer, of course, is, “Just drop it!”

Garbage—The Tropes of Modernism

This section looks at who else (after the previous sections) has actually explored and worked on the archaeological matter of garbage, and how.

To begin, let us recap. We propose a definition of archaeology that takes us beyond the academic discipline.

- Archaeologists work on material fragments, poor samples, usually, but not necessarily, of the past. The fragments may be artifacts or any other kind of material: the subjects of archaeological interest cut across the distinction between the natural and the cultural. Under this definition archaeology is a practice of mediation, working between past and present.

- The fragments of archaeological interest are often what may be classed as garbage. Our definition of garbage includes cognates like junk, trash, and litter and extends to ruins—garbage is what is discarded and abandoned as of no use. Discard relates garbage to the (economic) cycle of design, manufacture, distribution, consumption, and discard—garbage is a process. And the process includes abrasion, decay, and entropy.

- This association of garbage with a general economy undermines the categorical separation of garbage from other aspects of the production, exchange, consumption, and discard of goods.

- Questions of value lie at the base of archaeological work upon garbage. What is of such value that it should be protected and preserved?

- These questions of value are immediately questions of categorization—is something junk, or a work of art, or a historical source, or a personal souvenir?

- Here are questions of representation—what should be preserved on the grounds that it represents something valued, or represents a particular category?

- This field of assignation of value and of categorization has to do with notions of cultural archiving—what is fit to join an archive?
With such a definition it is possible to identify many archaeological fields within modernity and modernism that have focused upon garbage. We will deal with these through their tropic forms—the characters, plots and scenarios that give them shape and meaning. Tellingly perhaps, few are historiographical and overtly archaeological. Of necessity we will have to be a little sketchy in our review.21

Modern Cities in Ruin

Notes from an archaeological excavation in the year 2500 A.D.:

The oldest layer was a heavy clay flecked with charcoal and ash. It held chips of glass, the neck of a whisky bottle (Johnnie Walker, from the shape), a flattened plastic jug, a charred piece of motor tire, several cables, pipes, and architectural debris from the museum portico. The best find was a stack of magazines. Charred and waterlogged, they’d evidently been part of a bundle awaiting delivery or recycling. It took an hour to peel them apart—like trying to separate sodden mille-feuille pastry. In the middle was a single legible scrap, with what appeared to be a title. Something on Flaubert? I set the leaf to dry in the sun, and the print became clear: “I am Madame B. Ovary.” I’d unearthed the Reader’s Digest . . . I went back to the tree-throw and picked the roots clean. This produced more glass, some corroded costume jewellery, two shell-cases from a rifle or light machine-gun, part of a willow-pattern gravy boat, and the well-preserved sole of a running shoe—a Puma, no less.22

These impromptu excavations are in front of the ruins of the British Museum, the excavator a time traveler from the late twentieth century, arriving in a time machine “borrowed” from Tatiana Cherenkova, nineteenth-century genius associate of Tesla and mistress of Wells. The artifacts that our narrator recovers are all twentieth-century examples of those that archaeological reports describe in such detail: building debris, glass, ceramic, jewelry etc. But we would describe none of these artifacts as “high culture.” They are the lowliest of archaeological artifacts: debris, trash, junk . . . garbage.

Another excavation, of a different kind:

Boggy groun it wer and hevvy muck. We roapit off in squares and sorting thru it befor we draggit with the big buckit and the winch. We begun to fynd bodys and parts of bodys from time back way back. That happent some times in that kynd of muck in stead of rotting a way they got like old dark levver. Them bodys that morning they wer littl kids the yunges mytve ben 6 or so and the oldes may be 7 or 8. It takes you strange digging up a littl dead kid like that. From so far back and dead for so long and all the time they ever had ben just that littl.

I put my han in the muck I reachit down and come up with some thing it wer a show figger like the 1s in the Eusa show. Woodin head and hans and the res of it clof. All of it gone black and the show mans han stil in it. Cut off jus a littl way up the rist. A groan up han and regler show man he ben becaws when I wipet off you cud see the callus roun the head finger same as all the Eusa show men have.23
In both stories, the main protagonists journey into the ruins of our world to discover a truth. This is a frequently occurring motif, even a genre, in science fiction and its generic precursor, scientific romance: J. G. Ballard’s *Hello America* (1981), *Memories of the Space Age* (1988), and *The Drowned World* (1999); Russell Hoban’s *Riddley Walker* (1980); John Christopher’s *The White Mountains* (1967); John Ames Mitchell’s *The Last American* (1889); George Stewart’s *Earth Abides* (1969); H. G. Wells’s *The Time Machine* (1898). A full bibliography and “filmography” would be too voluminous to include here—we direct the reader to Clarke’s annotated bibliography, Warren Wagar’s *Terminal Visions*, and Brian Stableford’s *Scientific Romance in Britain 1890–1950.*

We can trace this scenario back to the beginnings of the romantic movement. The most striking imagery is often the direct descendent of romantic images of ivy-clad classical ruins, of sketches and paintings of the silted-up Roman forum, of ruin and the picturesque in Turner and Friedrich. Even within these beginnings, there were examples of the *contemporary* city imagined as ruin: Hubert Robert’s *Vue imaginaire de la Grande Galerie du Louvre en ruines*, Louis-Sébastien Mercier’s description of the Palace of Versailles’s ruins, Mary Shelley’s account of twenty-first century ruins in *The Last Man*, John Soane’s designs for the new Bank of England presented in cross-sectional ruin. The imagery’s history is such that it can stand for any number of different and sometimes contradictory ideas: the triumph of nature, the transience of cultural achievement, the folly of human ambition, humankind’s self-destructive urges, the end of the world, new beginnings, fate, and future. But in each representation, the audience recognizes that the city is not frozen in aspic. Time continues its work on the remains.

Albert Speer’s neoclassical plans for Hitler’s Berlin incorporated a theory of ruin value—that buildings should be built so that even when collapsed and in ruin they would present a grand and impressive sight. This was not his experience of industrial dereliction—the theory was formulated in response to his first commission to rebuild in stone the Nuremberg stadium for Nazi party rallies when several vehicle depots were demolished and presented an ugly sight of twisted iron reinforcing bars.

**Metamorphic Process**

Evident in all these works is an interest in the metamorphic processes of history—the material textures of decay. Of course, a whole host of biologists, geographers, urban planners, and engineers have contemplated the forces acting on modern cities. Mike Davis identifies Richard Jefferies’s *After London* (1880) as the progenitor of this particular genre of writing. In a kind of ecofiction, Jefferies, with a naturalist’s eye, describes the plants and animals that would return to London after its abandonment. Davis traces Jefferies’s literary descendents: Morris, London, Stewart, and others.

We would go much further though and connect this genre to a focus on what becomes of things as their form and context changes, as they become incorporated into different lives, become history, or garbage, as they slip into new associations. This is the very subject of the art of, for example, Cornelia Parker.
Cold Dark Matter: An Exploded View (1991). A garden shed full of junk and tools was assembled, blown up by the British Army and then the remains reassembled (in exploded view) in a gallery.

Exhibits:
- Shared Fate (Oliver) (1998). Doll cut by the Guillotine that beheaded Marie Antoinette.
- Suit Shot by a Pearl Necklace (1995).
- Marks made by Freud, subconsciously (2000). Macrophotograph of the seat of Freud’s Chair.

Ruin and the Abject

Ruin figures prominently in the British Neo-Romantic painters of the mid-twentieth century. The work of Paul Nash and John Piper resonates with historical echoes in the prehistoric monuments and ruins littering the landscapes of England. But even Piper’s images of maintained buildings are heavily patinated and exude a temporal quality or texture of imminent or active decay; they are ruins in the making.

Hoban’s Riddley Walker, quoted above, goes further with a sense of the abject at the heart of decay—moist, odorous and unpleasant. We might then contrast ruin with urban dereliction, ivy-clad remains with abject rot. Anselm Keifer’s landscapes are far from the picturesque; they concentrate upon sites of historical events and processes that are far from comforting, imbued instead with postwar German guilt, testaments to the death and debris of history.

The abject is a recurring theme in surrealism. Georges Bataille made it a focus of his philosophical anthropology. It is a central feature of the horror genre (EP, 67, 137, 145).

Utopia and Dystopia

From Jules Verne onwards, and in keeping with the paradigm of nineteenth-century evolutionary thought, the future may promise both progress and regress. In the classic genre of the postapocalypse story, the hero is often pitted against urban derelicts or mutants. H. G. Wells’s time traveler encounters pastoral Eloi and brutish Morlocks in the far distant future. Charlton Heston tackles aberrant mutants in The Omega Man. In Robocop the enemy is both the criminal underworld and corrupt unprincipled corporate executives. The capitalization of future corporate power is based upon urban and environmental dereliction. Robocop, the cyborg, is the corporate artifact designed to manage the human garbage of this dystopia. But the artifact assumes human qualities and comes to stand for all that the corporate world denies, and as such becomes guardian of a distinctively human heritage—what threatens to be lost and needs protection against forces of future anarchy, immorality, the loss of values. Robocop is a steward and conservator of human values—an archaeological policeman of the future (EP, 54–6).
The lowlife of the urban and criminal underworld is a scenario familiar since at least Dickens.\textsuperscript{29} Counterposed against the stereotypical miscellany of drug-dealing transient and criminal discards, but operating in this world of the abject human and deeply immersed in its culture, is a classic character in the archaeological imaginary—the detective (EP, 53–4). While his apparent object is crime investigation, his focus is upon the material textures of the incidental and the overlooked. At the scene of crime anything may be relevant—any discarded item, what ordinary people overlook or ignore.

Garbage in the Future

Outside of the postapocalypse story, the casual viewer might not appreciate the frequency with which garbage features in science fiction films and novels, instead concentrating on the shiny sets, props, and costumes of popular cliché. This has changed, particularly since the 1970s. George Lucas decided to have his Star Wars universe appear “lived-in”; Ridley Scott’s spaceship in Alien was one of dirty dank corridors, a suitable haunt for an abject creature of the id; the alleys in Blade Runner are strewn with trash.\textsuperscript{30} The lived-in future has a longer history in literature: James White’s short story, Deadly Litter, dealt with the hazards of space junk in 1960.\textsuperscript{31}

We might expect this of purely dystopian settings: dying worlds, choking on their own pollution. But the garbage is often juxtaposed with shining futuristic efficiency. The trash compactor of Star Wars lies in the bowels of a moon-sized superweapon, Battle Angel Alita’s Scrap Iron City underneath the futuristic floating utopia of Zalem.\textsuperscript{32} And in these junkyards might lie a surprise: in Star Wars, a monster; Battle Angel Alita, the shell of a cyborg assassin.

In the very first scene of the first episode of the world’s longest continuously running science fantasy television show, Doctor Who (1963–1989), comes a surprise within a surprise. Within I. M. Foreman’s junkyard, at 76 Totters Lane, London, stands an old police telephone kiosk (outmoded, discarded); within the blue box, an impossibly huge and hyperfuturistic space-time machine from an alien civilization.

The Quotidian Artifact

Entropy’s steady accumulation of detritus piles up around us.

“‘The apartments in which no one lives—hundreds of them and all full of the possessions people had, like family photographs and clothes. Those that died couldn’t take anything and those who emigrated didn’t want to. The building, except for my apartment, is completely kipple-ized.’”

“‘Kipple-ized’?” She did not comprehend.

“‘Kipple is useless objects, like junk mail or match folders after you use the last match or gum wrappers or yesterday’s homeopape. When nobody’s around, kipple reproduces itself. For instance, if you go to bed leaving any kipple around your apartment, when you
wake up the next morning there's twice as much of it. It always gets more and more . . . No one can win against kipple . . . except temporarily and maybe in one spot, like in my apartment I've created a sort of stasis between the pressure of kipple and nonkipple, for the time being. But eventually I'll die or go away, and then the kipple will again take over. It's a universal principle operating throughout the universe; the entire universe is moving toward a final state of total, absolute kippleization.”

Fascination with the quotidian, and particularly what is neglected as valueless, is a recurring obsession in modernist art and literature. We have already mentioned detective fiction. Picasso notoriously included the material everyday in his collages, literally quoting from everyday life. Duchamp, dada, and artists after have imported found (everyday) objects into the gallery, counterposing the supposed emptiness and lack of worth with the presumed value of high culture.

Pop art, from Warhol through Jeff Koons, has played on the aura of the everyday and the throwaway consumer item. Detritus.net is dedicated to appropriation art, the recycling of cultural goods, artistic practice based upon sampling, upon reworking found objects. The there is simply the art of junk."

Folded Time and Space

How do we contextualize this “kipple”? In How Buildings Learn, Stewart Brand explores the different rates at which different parts of buildings change over time. He divides a building into different layers, borrowing from and adapting design theorists. Each of these layers changes at a different rate from the others. He calls these layers the “six S’s”:

- **SITE**: This is the geographical setting, the urban location, and the generally defined lot, whose boundaries and context outlast generations of ephemeral buildings.
- **STRUCTURE**: The foundation and load-bearing elements are perilous and expensive to change, so people don’t change them. These are the building. Structural life ranges from thirty to three hundred years (but few buildings make it past sixty, for other reasons).
- **SKIN**: Exterior surfaces now change every twenty years or so, to keep up with fashion or technology, or for wholesale repair. Recent focus on energy costs has led to reengineered skins that are airtight and better-insulated.
- **SERVICES**: These are the working guts of a building: communications wiring, electrical wiring, plumbing, sprinkler system, HVAC (heating, ventilating, and air conditioning), and moving parts like elevators and escalators. They wear out or obsolesce every seven to fifteen years. Many buildings are demolished early if their outdated systems are too deeply embedded to replace easily.
- **SPACE PLAN**: The interior layout—where walls, ceilings, floors, and doors go. Turbulent commercial space can change every three years or so; exceptionally quiet homes might wait thirty years.
• STUFF: Chairs, desks, phones, pictures; kitchen appliances, lamps, hair brushes; all the things that switch around daily to monthly. Furniture is called *mobilia* in Italian for good reason.

Brand illustrates his points with several sequences of photographs of buildings taken over the better part of a century. We observe how the overall structures of buildings remain the same while decoration and objects appear, move around, and vanish. He notes both the small changes in detail and the big structural changes. But we have another example in mind. In George Pal’s 1960 version of *The Time Machine*, there is a scene that nicely illustrates these layers. Our hero straps himself into his machine, and watches as objects in the room flit around thanks to the miracle of stop-motion photography. Items move around the room. In a shop window across the street, a mannequin changes clothes at high speed to match the passing seasons—not natural seasons but those of the fashion industry. But in addition to this, other changes occur at a slower pace: the windows are boarded up, the building collapses, woods grow around him.

The question becomes, how are we to represent and make sense of this? Archaeological reports deal with only one moment in the life cycle of their artifacts: the moment of rediscovery. In *Civilization and Its Discontents*, Freud briefly touches on the difficulties of representing temporality in a cityscape.

Now let us, by a flight of imagination, suppose that Rome is not a human habitation but a psychical entity with a similarly long and copious past—an entity, that is to say, in which nothing that has once come into existence will have passed away and all the earlier phases of development continue to exist alongside the latest one . . . Where the Coliseum now stands we could at the same time admire Nero’s vanished Golden House. On the Piazza of the Pantheon of to-day, as it was bequeathed to us by Hadrian, but, on the same site, the original edifice erected by Agrippa; indeed the same piece of ground would be supporting the church of Santa Maria sopra Minerva and the ancient temple over which it was built.

He concludes that, “If we want to represent historical sequence in spatial terms we can only do it by juxtaposition in space: the same space cannot have two different contents.” (How striking that Freud should compare the mind to a city, when the journeys that J. G. Ballard’s characters make into ruins are really metaphors for psychic journeys, e.g., in *The Drowned World*, *Hello America*. How striking that Freud should choose Rome as his exemplar, when Rome played such a key role in *The Last Man*’s final journey.) It is impossible to trace the constant circulation and shifting structures that Pal’s film managed to depict by traditional archaeological means. And this is why we must take shortcuts.

The twentieth-century avant-garde critique of the gallery juxtaposes contemporary found, ready-made, appropriated objects with a space conventionally reserved for antique art. A space-time machine is an appropriate image in this field of archaeological garbage, for both ruins and junkyards compress space and time into a single point—artifacts from different times and places are brought into one location, to be
(re)discovered. In a similar way, Robert Crossley has suggested that the museum in science fiction “invites the reader to become a tourist and to peer into the glass case in wonder and often alarm at an object that collapses distances of time and space, disorients and displaces the observer, and ultimately requires us to put ourselves right again.”

Before the modern form of the museum emerged in the nineteenth century, Mary Shelley was forced to employ the whole of Rome’s ruins in order to meditate on the nature of human achievement; seventy years later, H. G. Wells was able to present his readers with the remains of a museum modeled on London’s Natural History Museum. In the museum gallery, we see objects and remains brought from throughout the world’s history and geography to be put on display. In the ruined city, we encounter layers of accumulated debris from collapsing buildings. In the junkyard and landfill, a hybrid of the two—layers of accumulated objects and remains from all over a city.

Revelations and Connections

So, in ruined city, junkyard, and museum we can expect to find incongruity, the unexpected. There is often some humor for the modern audience as their imaginary descendants fail to grasp, or miss completely, an artifact’s significance. We can look to David Macaulay and John Ames Mitchell for extreme examples. David Macaulay describes an archaeological excavation in the remains of the long lost civilization of “Usa.” Here the excavator recovers a double-chambered burial, exotic plastic headdresses and jewelry, and the shrine to a mysterious deity. From Macaulay’s illustrations, we recognize a motel room and its en suite bathroom, lavatory seat and brushes, and a television set. Mitchell has Khan-Li reconstruct a street scene from ancient Nhũ-Yok based on nineteenth-century advertising plates. A circus performer rides down the street standing on the back of her horse, while a baby waddles down in the other direction—wearing only a top hat. In the foreground is a toga-clad man with umbrella and, on his arm, a respectable-looking lady in Victorian corset and the frame for a dress.

Discombobulation. Time is put out of joint.

But it need not be a ruined city. In the gesture of dada, in the surrealist juxtaposition, there is an analogous folding of time and space that emphasizes the accidental encounter. The urban experience of Louis Aragon represented in his Paysan de Paris is centered upon such encounter—flânerie. Joseph Cornell’s boxes take us into an interior world of personal association through incidental artifacts and objects, apparently worthless junk, recombined in analogues of the museum display case, and acquiring iconic significance.

The Semiotic Fragment

The focus of this play around worthlessness, the value of aura and association, is often upon the semiotic fragment, an item that comes to stand for a great deal. From The Freud Museum (1991 and after) was an installation (variously exhibited) based upon Susan Hiller’s artist’s residency at the Freud Museum in London. The work consisted of a large number of objects in boxes that were presented in a series of
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museum vitrines. Each box contained a combination of objects: “my starting points were artless, worthless artifacts and materials—rubbish, discards, fragments, trivia and reproductions—which seem to carry an aura of memory and to hint at meaning something, something that made me want to work with them and on them.” She was fascinated by the idea of collecting as evinced in the rooms of the house; where each object had been, carefully and with great pleasure, registered and noted by Freud, and she took the idea of the narratives inherent in the “conscious configuration” of objects as the basis for the project. Each component display box “presents the viewer with the word (each is titled), a thing or object, and a representation” from which multiple relationships are generated in the act of viewing and reading.

Categories Questioned

The assemblages of Cornell and Hiller raise questions of categorization—how do we box things (sometimes literally)—as junk, or collectable, meaningless, meaningful. Implicit is the archaeological figure of the collector, agent of discovery, assemblage and classification. Peter Greenaway’s curatorial projects use a variation upon this figure, as he rummages through the store rooms of museums, turning up what has been neglected, finding new meaning in the recomposition of assemblages of artifacts, and people.

The World Trade Center—Archaeologically Revisited

Much of what we have been discussing under this theme of garbage and archaeology is an aspect of industrial and modern urban consciousness, with all its contradictions between rural/urban, development/underdevelopment, management/laissez-faire, order/anarchy, high culture/low culture, manufacture and design/organic process. Here garbage is a matter of relationships negotiated between hygiene and disease, matter in place and matter displaced, what is to be kept and cherished for the future, what is to be discarded on the midden of history. We emphasize how the notion of garbage, in its archaeological field of association, is intimately tied to utopian thinking—what would it be like if we didn’t have garbage and everything it represents, if it were picturesque ruin, if there were no urban dereliction, if we could hold on to the past and not let it slip away into rot, if we could build upon the ruin of our heritage. A new World Trade Center is planned to rise from the ruins of the old (consigned to a landfill site)—a new building that will represent a vision of a desired future.

We can refine the proposition with which we set out. Archaeology’s object is garbage and most people have not been able to deal with this, seeing it (implicitly perhaps) as an embarrassment, preferring instead a utopian thinking focused as much on (ethical) ideals of the good life (the way society should be, the values of cultural achievement in the past) as upon historical realities.

But whatever the denial at the core of the garbage conundrum, as we have termed it, there is a fascination with garbage. Fragments evoke a range of archaeological grati-
The task is to reconnect these gratifications with concepts of garbage. But the key seems to necessitate a degree of shock and estrangement, even trauma. We might ask how much the building designed to replace the destroyed and displaced World Trade Center will represent simply a memorial comfort to the living rather than seizing an opportunity to play upon the frictions and ironies of the archaeological materiality that is the stuff of history.
34. For example, Chris Driessen and Heidi van Mierlo, eds., *Tales of the Tip: Art on Garbage* (Amsterdam: Fundament Foundation, 1999).
38. Ibid.
49. For a more anthropological approach to categorization and value in relation to garbage, see Michael Thompson, Rubbish Theory: The Creation and Destruction of Value (New York: Oxford University Press, 1979).