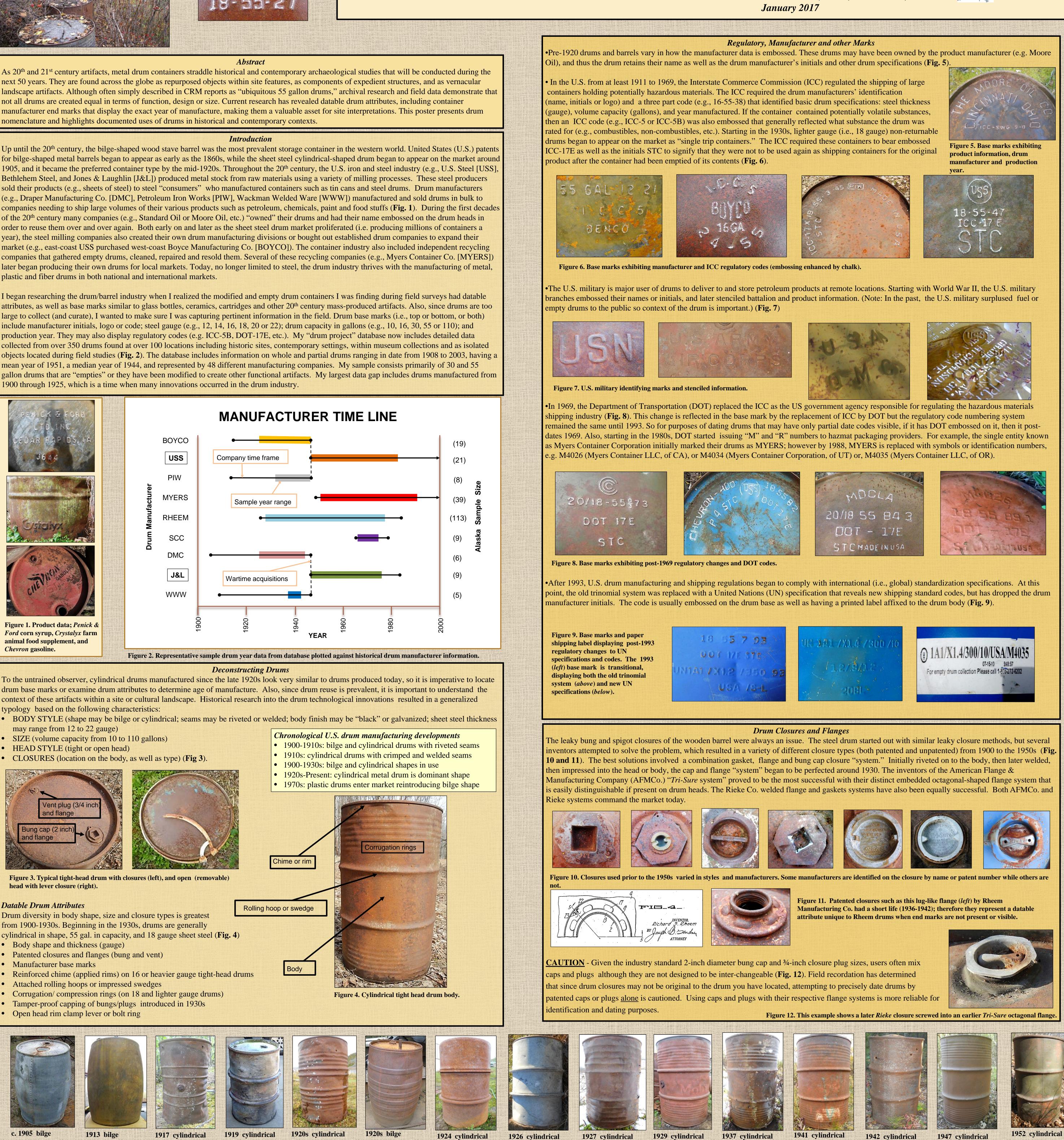


nomenclature and highlights documented uses of drums in historical and contemporary contexts.

plastic and fiber drums in both national and international markets.

1900 through 1925, which is a time when many innovations occurred in the drum industry.



typology based on the following characteristics:

Drum diversity in body shape, size and closure types is greatest from 1900-1930s. Beginning in the 1930s, drums are generally









1919 cylindrical



Deconstructing Ubiquity: The Interpretative Value of Metal Drum Containers Andrew Higgs

Northern Land Use Research Alaska, LLC, Fairbanks, Alaska

1924 cylindrical

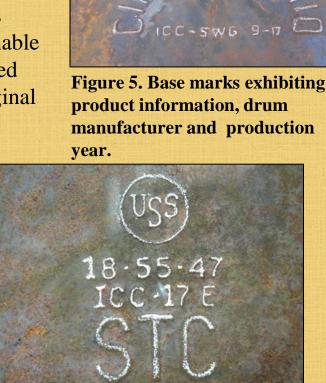
1926 cylindrical

1927 cylindrical

1929 cylindrical

1937 cylindrical









1952 cylindrical

This study evolved out of the application of an historical and archaeological perspective to modern material culture. Based on archival research and field observations, drums at sites usually come in three forms: "empties," partially filled, and modified. I have focused on empties and modified drums at sites to re-create drum chronology and technological attributes so that I can better describe and date partial drums, refine and interpret feature areas across multi-decadal surface sites, and more fully describe feature areas with datable artifacts. Arriving at a good date on a drum is key to determining its 'role' at a site; it may be your most definitive datable object (i.e., contextual anchor). However you also have to be aware that people like to reuse/repurpose drums; therefore, it is important to understand a drum's context at the site, and relationship with other objects/features. Steel drums are very durable, and it is this quality that makes them a desirable object having numerous modified uses. Modified drums demonstrate ingenuity, resourcefulness, craftsmanship, and making do (Figs. 13-18).



Figure 13. Drum (1940) modified into a cable spool located in a mining camp (1940s).



Figure 16. Four drums welded together to form a canoe (1940s) (archival photo).

Above all, Alaska Natives (past and present) find many use for empty drums (Figs. 19-21). During material culture acculturation studies conducted in Alaska during the 1950s through 1970s, archaeologists and anthropologists documented many Native examples of drum reuse that included modifying drums into stoves but also for many other uses, such as: cooking pots for dog food, rendering pots for whale blubber, fish storage containers, support piers for storage racks and caches, siding and roofing for buildings, trash and burn barrels, human waste receptacles (i.e. honey pots), sweat baths, and dog houses. Similar uses continue into the present.



Figure 19. Inupiat women cooking beluga whale meat in cut-down steel drum (1951). (Field Museum of Natural History neg. no. 110437).

Repurposing steel drums into radiant heating stoves is very common in the past and present in Alaska. Research demonstrated that drum stoves manufacture occurred earlier in the 20th century (ca. 1910s) than this author initially thought. This data is supported by historic photographs of drum stoves, advertisements in old newspapers, and the discovery of early stoves or their carcasses at archaeological sites. Not only were people making their own stoves from 30 and 55 gallon drums, an abundance of empty drums initiated an entire sub-industry of drum stove manufacturers within metal fabrication shops. From an economic perspective, this means at least two things: (1) these less expensive steel drum stoves produced by local smiths were undercutting the larger mass market cast iron and steel stove producers; and (2) steel drums intended to be recycled for reuse as mass-volume material containers were being pulled from the drum recycle/reconditioning system used by drum manufacturers and producing owners such as Standard Oil. At historic sites, the steel accessories (i.e., cast iron door, legs, and stove pipe flange) have often been removed and reused on the next generation of drum stoves.





POTENTIAL HAZARDS – Drums have a stigma of being associated with hazardous materials or hazardous waste sites. The drums I document are not hazardous – they are usually "empties" or they have been repurposed into cultural objects. However, as archaeologists, we should be aware of the potential for hazardous materials at any domestic, military or industrial site, or sites that used petroleum or chemical products. Certainly be on the lookout for signs of hazards that should be avoided (e.g., buried drums, dead vegetation around a drum, crystalized substances around drum closures and severe corrosion, etc.). Certainly avoid potentially hazardous drums, but don't unnecessarily associate ALL drums with hazardous materials (refer to Fig. 1). Also, even empty whole drums are generally heavy, but drums having substances in them or that contain residual water can weigh over 100 lbs – do not attempt to lift them without assistance.







1967 cylindrical

1954 cylindrical



(Brian Allen photo

Drum Reuse

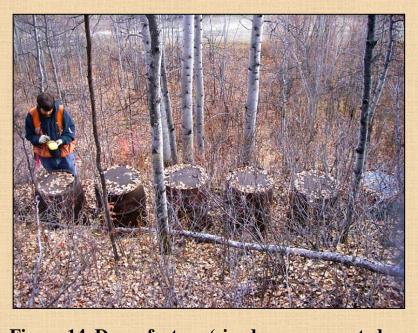


Figure 14. Drum feature (six drums connected by pipes to store water, c. 1950 – each drum had a different manufacturer mark and date range from 1923-1946).



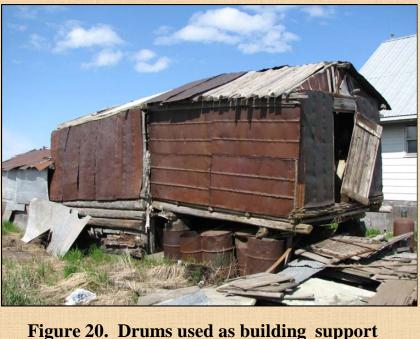
Figure 17. Four drums (1941-42) welded together to form an expedient water heater at a road construction camp (1940s).



Figure 15. Drum (1939) modified into a wash basin located in a mining camp (1940s).



Figure 18. Cold War era anti-aircraft building buttressed with soil-filled drums (1950s). (Brian Allen photo).



piers, and sheathing for siding and roofing



Figure 21. A tundra walkway through a village consisting of a linear series of drums

Drum Stoves







Acknowledgments

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1988 cylindrical