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2. To work for the proper conservation and exploration of archeological sites and materials.
3. To encourage the scientific study of archeological sites and materials and to discourage careless, mis-directed or commercial collecting of artifacts.
4. To promote the spread of archeological knowledge through the media of publications, meetings, lectures, exhibits, etc.
5. To collaborate with other organizations and agencies that serve the same purposes as those of this Society.
6. To serve as a bond between individual members and as a link with similar organizations in other states.

THE GLASS BEAD COLLECTION FROM THE HERETICK SITE (44PG62)

Gary G. Robinson

This report analyzes the glass beads from EU1/1A. Glass beads are frequently found during gardening and landscaping activities on the site. Although a significant number of beads have accumulated from such activities, only those beads recovered from EU1/1A will be analyzed in this report.

The purpose of this report is to provide a catalogue and descriptive analysis of a portion of the Heretick glass bead collection and to determine the probable origin and date of manufacture of the members of the collection. The report includes five parts: Introduction; Part I, The Kidd Classification System for Glass Beads; Part II, Descriptive Analysis; Part III, Comparative Analysis; Part IV, Conclusions; and Appendix. Part IV draws on information presented in Parts II and III to suggest probable origins and manufacturing dates for the collection. The appendix contains the complete catalogue of the examined portion of the Heretick glass bead collection.

PART I - THE KIDD CLASSIFICATION SYSTEM

The Heretick collection has been classified according to the system developed by Kenneth E. and Martha Ann Kidd (1970). The color, size, and shape notations used in this report correspond to those employed in the Kidd's classification system. Size categories and ranges are as follows:

Very small	.....	under 2 mm
Small	.....	2 mm - 4 mm
Medium	.....	4 mm - 6 mm
Large	.....	6 mm - 10 mm
Very large	.....	over 10 mm

All measurements are of length.

Not all specimens in the Heretick collection fit exactly into the Kidd's system. Those that do fit exactly into the system are designated by class (a Roman numeral followed by a lower case letter) and a bead number (an Arabic numeral). Those which do not fit exactly are designated by class alone.

PART II - DESCRIPTIVE ANALYSIS

The Heretick glass bead collection consists of 1,775 specimens recovered. Two manufacturing methods are represented.

Drawn Beads. There are 674 drawn beads comprising 38% of the collection. Drawn beads were manufactured by drawing hollow globes of molten glass into long tubes. After cooling, the glass tubes were chopped into appropriate lengths. Frequently, the resulting tubular shaped beads were tumbled until rounded and circular shapes were achieved (Kidd, 1979:13-15).

The drawn beads in the collection are represented by four classes.

Class I: Tubular, monochrome beads. (122 specimens comprising 7% of the collection)

Class Ia: Tubular; medium to very large; opaque, robin's egg blue. 3 medium, 29 large, 8 very large

Tubular; small to large; opaque, white. 11 small, 62 medium, 9 large

Class II: Non-tubular, monochrome beads. comprising 26% of the collection)

Class IIa13: Circular; medium; opaque, white. 4 medium

Round; small to large; opaque, white. 31 small, 68 medium, 6 large

Class IIa14: Circular; very small to small; opaque, white. 55 very small, 106 small

Class IIa15: Oval; medium; opaque, white. 3 medium

Class IIa40: Circular; medium; opaque, white. 3 medium

Circular; medium to very large; opaque, robin's egg blue. 11 medium, 4 large, 1 very large

Round; medium; opaque, white. 1 medium

Round; medium to large; opaque, robin's egg blue. 18 medium, 18 large

Oval; medium to very large; robin's egg blue. 1 medium, 1 large, 2 very large

Class IIa: Circular; very small; opaque, brite navy. 3 very small

Circular; small; opaque, dark palm green. 2 small

Circular; small to medium; opaque, white. 1 small, 42 medium

Round; large to very large; opaque, robin's egg blue. 3 large, 3 very large

Round; very large; opaque, white. 1 very large

Oval; medium to very large; opaque, robin's egg blue. 3 medium, 31 large, 31 very large

Oval; large; opaque, white. 3 large

Flat; large; opaque, robin's egg blue. 1 large

Class III: Tubular, polychrome (multi-layered) beads. (53 specimens comprising 3% of the collection)

Class IIIa3: Tubular; medium; opaque, redwood layer over a clear, apple green core. 38 large

Class IV: Non-tubular, polychrome (multi-layered) beads. (43 specimens comprising 2% of the collection)

Class IVa5: Round; medium to large; opaque, redwood layer over a clear, apple green core. 4 medium, 7 large

Class IVa6: Circular; medium to large; opaque, redwood over a clear, apple green core. 17 medium, 4 large

Class IVa: Circular; small; opaque, redwood over a clear, apple green core. 8 small

Circular; large; opaque, redwood layer over a clear, apple green core. 7 large

Wound Beads. There are 1,101 wound beads comprising 62% of the collection. Wound beads were manufactured by winding a melted glass rod around chalked wire. (Kidd, 1979:15)

The wound beads in the collection are represented by two groups.

Group WI: Monochrome beads with simple shapes. (1,100 specimens comprising 26% of the collection)

Group WIa: Tubular; very small to very large; opaque, white. 1 very small, 42 small, 62 medium, 25 large, 1 very large

Group Wlb2: Round; small to medium; opaque, white. 7 small, 8 medium

Group Wlb: Round; large; opaque, white. 29 large

Group Wlc: Oval; medium; opaque, white. 2 medium

Oval; very large; opaque, white. 1 very large

Group Wld: Donut; very small; opaque, apple green. 2 very small

Donut; very small; opaque, black. 2 very small

Donut; very small; opaque, brite blue. 1 very small

Donut; very small to large; opaque, white. 554 very small, 346 small, 16 medium, 1 large

Group WIi: Monochrome beads with elaborate shapes. (1 specimen comprising less than 1% of the collection)

Group WIib: Flat; medium; opaque, white. 1 medium

PART III - COMPARATIVE ANALYSIS

A number of the beads comprising the Heretick collection correspond to members of other bead assemblages. At least two other sites in Virginia have produced beads identifiable as members of the Heretick collection types.

David I. Bushnell, Jr. in his Indian Sites Below the Falls of the Rappahannock, Virginia, describes beads that correspond to the Class III and IV beads of the Heretick collection. (Bushnell, 1937:31-32) These beads were part of a cache discovered at Leedstown, Virginia. Although the origins of the Class III and IV beads are not specifically determined in Bushnell's report, he notes that types corresponding to other members of the Leedstown cache have been recovered from sites in California and west Florida. All the sites involved date from the period just following initial contact between the Spanish and the native Americans of the region. On the basis of this evidence, Bushnell suggests that the entire cache of beads at Leedstown

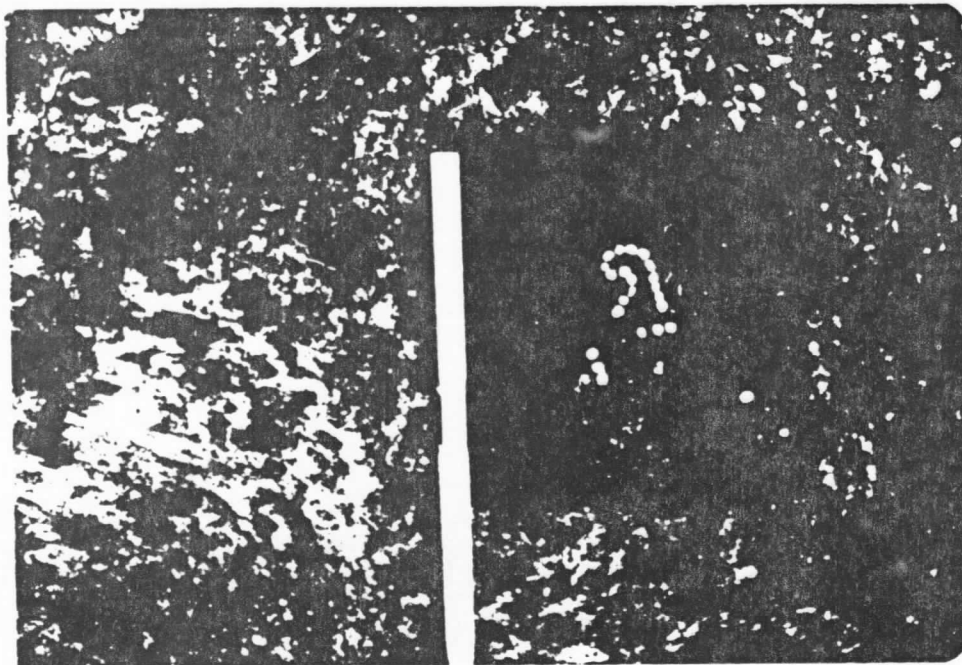


Figure 1
Wire wound beads (W1a)
(Photo by Rob Hunter)

originated in Spain, notably Barcelona, the center of the Spanish glass industry (Bushnell, 1937:33-35).

The John Green site (44GV1) in Greensville County, Virginia has produced a number of beads that have been classified as Class IIa15. (MacCord, 1970:119) Howard A. MacCord, Sr. assigns two sets of dates, extracted from Peter P. Pratt's Oneida Iroquois Glass Trade Bead Sequence, 1585-1745, to the assemblage. The earlier dates, 1625-1637, probably represent the earliest occurrence of this type of bead in North America. The later dates, 1710-1745, represent the date of the deposition of the beads. A small collection of pipestems associated with the beads yields a Binford date of 1720-1730 which supports the latter of MacCord's dates as that of the deposition of the artifacts (Ibid).

Karlins Karklins has described several bead types which were discovered at three sites in the Netherlands and which occur in the Heretick collection (Figure 2). He also makes the determination that these beads were manufactured at one or more of the manufacturing centers that produced glass beads in the Netherlands during the 17th century (Figure 3, Karklins, 1974:64, 66-68).

At the Boeren-Wetering site beads classified as Class Iva5 were discovered. This site also produced beads identical to Class IIIa3 with the exception of a difference in size. (Karklins 1974:74, 77) Associated artifacts indicate that the beads were deposited during the first half of the 17th century (Karklins, 1974:66-67).

The 's Graveland site produced the largest variety of beads which correspond with those of the Heretick collection. 's-Graveland produced beads classified as Class IIa13, IIa14, and Iva6 (Karklins, 1974:71, 76). Beads similar to Class IIa (round; large; opaque, robin's egg blue) were also discovered. These beads differed from those in the Heretick collection only in the diaphaneity of the glass. The site also yielded beads that differed from the Class IIIa beads in the Heretick collection only in size (Karklins, 1974:71,74). Again, associated artifacts indicate a deposition date for the beads of the first half of the 17th century (Karklins, 1974:67).

The third site, Rijnsburg, produced seven beads classified as Class Iva5. These beads were strung on sections of brass chain. Karklins suggests that these beads may have been members of a rosary and may have been lost by



Figure 2
Map of the Netherlands showing sites producing 17th century beads
(From Karklins, 1974:65)



Figure 3
Map of the Netherlands showing 17th century glass bead manufacturing centers
(From Karklins, 1974:65)

someone visiting a nearby church (Karklins, 1974:68).

PART IV - CONCLUSIONS

The presence of a large number of beads in the Netherlands that correspond to those in the Heretick collection strongly suggests that a significant portion of the collection, and possibly the entire collection, were produced at one or more of the bead manufacturing centers of that country. The fact that the Dutch glass bead industry had ceased production by the beginning of the 18th century dictates a 17th century origin for those beads in the Heretick collection corresponding with those discovered in the Netherlands (Karklins, 1974:66). Artifacts associated with the beads found in the Netherlands show that the beads could date as early as the second quarter of the 17th century (Karklins, 1974:66-67).

The clay tobacco pipes yield a Binford date of 1747 (Linebaugh, 1984:4). Analysis of the glassware from the site supports the

pipestem date. (Monique Lang:personal communication) The 50 to 125 year span evident between the manufacture and the deposition of the beads of the Heretick collection apparently is not unusual.

A similar situation exists at the John Green site where Class IIa15 beads were discovered in an historic period Indian burial that was dated to sometime after 1710 (MacCord, 1970:119, 124). The two sets of dates assigned to the beads would indicate both an early advent and an extended period of use of glass beads of the type extant in the Heretick collection (MacCord, 1970:119).

With the above information, we can safely abandon Bushnell's supposition that the Leedstown Class III and IV beads were of Spanish origin. The beads from the Heretick site were most likely manufactured in the Netherlands during the 17th century and imported into Virginia, probably for use in trade with the native populations. During the decade of the 1740's the beads were discarded and some portion ended up in the root cellar.

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APPENDIX

THE CATALOGUE OF THE HERETICK GLASS BEAD COLLECTION

List of Abbreviations Used:

Size VS - very small, under 2mm
 S - small, 2mm - 4mm
 M - medium, 4mm - 6mm
 L - large, 6mm - 10mm
 VL - very large, over 10mm

Shape R - Round
 C - Circular
 O - Oval
 T - Tube
 F - Flat
 D - Donut

Diaphaneity

op - Opaque
cl - Clear

<u>Provenience</u>	<u>Number</u>	<u>Class</u>	<u>Shape</u>	<u>Size</u>	<u>Glass</u>	<u>Color</u>
EU1-1-NE	1	IVa5	R	L	op/cl	redwood/apple green
	1	Wib	R	L	op	white
	1	Wid	D	VS	op	white
EU1-1-NW	1	Ia	T	L	op	robin's egg blue
EU1-1-SW	1	IIa3	T	M	op/cl	redwood/apple green
	1	IIa	T	L	op/cl	redwood/apple green
	1	IVa5	R	L	op/cl	redwood/apple green
	1	Wia	T	L	op	white
	1	Wid	D	VS	op	apple green
	2	Wid	D	VS	op	white
EU1-2-NE	1	Wid	D	S	op	white
	1	IIa	G	M	op	robin's egg blue
	1	IIa	O	VL	op	robin's egg blue
	2	IIa40	R	L	op	robin's egg blue
	1	Wia	T	L	op	white
	1	Wib2	R	M	op	white
	1	Wid	D	VS	op	white
EU1-2-CNE	1	Wid	D	S	op	white
	1	Ia	T	L	op	robin's egg blue
	2	IIa40	R	M	op	robin's egg blue
	3	Wid	D	M	op	white
EU1-2-SW	1	IIa	C	M	op	white
EU1-3-CNE	1	Ia	T	VL	op	robin's egg blue
	1	IIa	O	VL	op	robin's egg blue
	1	Wid	D	M	op	white
EU1-3-CSE	1	IVa5	R	L	op/cl	redwood/apple green
EU1-4-CNE	1	Ia	T	S	op	white
	1	Ia	T	M	op	white
	2	Ia	T	L	op	robin's egg blue
	4	IIa13	R	S	op	white
	1	IIa13	R	M	op	white
	1	IIa40	R	M	op	white
	3	IIa40	C	M	op	white
	1	IIa40	O	M	op	robin's egg blue
	1	IIa40	O	L	op	robin's egg blue
	2	IIa40	O	VL	op	robin's egg blue
	2	Wia	T	L	op	white
	1	Wib	R	L	op	white
	2	Wid	D	VS	op	white
	6	Wid	D	S	op	white
	1	Wib	F	M	op	white
EU1-5-CNE	3	Ia	T	S	op	white
	10	Ia	T	M	op	white
	2	Ia	T	M	op	robin's egg blue
	1	Ia	T	L	op	white
	3	Ia	T	L	op	robin's egg blue
	18	IIa13	R	S	op	white
	8	IIa13	R	M	op	white
	4	IIa13	C	M	op	white
	4	IIa14	C	VS	op	white
	51	IIa14	C	S	op	white
	3	IIa15	O	M	op	white
	6	IIa15	O	L	op	robin's egg blue

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<u>Provenience</u>	<u>Number</u>	<u>Class</u>	<u>Shape</u>	<u>Size</u>	<u>Glass</u>	<u>Color</u>
EU1-5-CNE (cont'd)	2	IIa15	O	VL	op	robin's egg blue
	5	IIa40	R	M	op	robin's egg blue
	8	IIa40	C	M	op	robin's egg blue
	2	IIa40	C	L	op	robin's egg blue
	2	IIIa3	T	M	op/cl	redwood/apple green
	3	IIIa	T	L	op/cl	redwood/apple green
	1	IVa5	R	M	op/cl	redwood/apple green
	1	IVa5	R	L	op/cl	redwood/apple green
	5	IVa	C	S	op/cl	redwood/apple green
	8	IVa6	C	M	op/cl	redwood/apple green
	1	WIa	T	VS	op	white
	10	WIa	T	S	op	white
	17	WIa	T	M	op	white
	3	WIa	T	L	op	white
	4	WIIb2	R	S	op	white
	1	WIIb2	R	M	op	white
	2	WId	D	VS	op	black
	1	WId	D	VS	op	brite blue
	242	WId	D	VS	op	white
	79	WId	D	S	op	white
EU1-5-CSE	5	Ia	T	S	op	white
	46	Ia	T	M	op	white
	3	Ia	T	L	op	white
	14	Ia	T	L	op	robin's egg blue
	2	Ia	T	VL	op	robin's egg blue
	3	IIa	R	VL	op	robin's egg blue
	3	IIa	C	VS	op	brite navy
	5	IIa	C	M	op	robin's egg blue
	27	IIa	C	M	op	white
	1	IIa	O	M	op	robin's egg blue
	13	IIa	O	L	op	robin's egg blue
	9	IIa	O	VL	op	robin's egg blue
	4	IIa13	R	S	op	white
	51	IIa13	R	M	op	white
	1	IIa13	R	L	op	white
	32	IIa14	C	VS	op	white
	28	IIa14	C	S	op	white
	7	IIa40	R	M	op	robin's egg blue
	14	IIa40	R	L	op	robin's egg blue
	9	IIIa3	T	M	op/cl	redwood/apple green
	21	IIIa	T	L	op/cl	redwood/apple green
	2	IVa	C	S	op/cl	redwood/apple green
	16	WIa	T	S	op	white
	27	WIa	T	M	op	white
	1	WIa	T	L	op	white
	18	WIIb	R	L	op	white
	1	WIIb2	R	S	op	white
	4	WIIb2	R	M	op	white
	1	WIc	O	M	op	white
	198	WId	D	VS	op	white
	122	WId	D	S	op	white
	2	WId	D	M	op	white

<u>Provenience</u>	<u>Number</u>	<u>Class</u>	<u>Shape</u>	<u>Size</u>	<u>Glass</u>	<u>Color</u>
EU1-6-CNE	1	Ia	T	L	op	robin's egg blue
	2	IIa	R	L	op	robin's egg blue
	4	IIa	C	M	op	robin's egg blue
	2	IIa	O	L	op	robin's egg blue
	1	IIa	O	VL	op	robin's egg blue
	1	IVa5	R	M	op/cl	redwood/apple green
	1	IVa6	C	M	op/cl	redwood/apple green
	1	W1a	T	L	op	white
	5	W1d	D	M	op	white
EU1-clean up	1	Ia	T	M	op	robin's egg blue
	3	Ia	T	L	op	robin's egg blue
	1	IIa	R	L	op	robin's egg blue
	3	IIa	C	M	op	robin's egg blue
	3	IIa	O	L	op	robin's egg blue
	5	IIa	O	VL	op	robin's egg blue
	1	IIa13	R	S	op	white
	1	IIa14	C	S	op	white
	2	IIIa	T	L	op/cl	redwood/apple green
	2	IVa5	R	M	op/cl	redwood/apple green
	1	IVa5	R	L	op/cl	redwood/apple green
	1	IVa	C	S	op/cl	redwood/apple green
	1	IVa6	C	M	op/cl	redwood/apple green
	3	W1a	T	M	op	white
	4	W1a	T	L	op	white
	1	W1b2	R	S	op	white
	1	W1b2	R	M	op	white
	5	W1d	D	S	op	white
	1	W1d	D	M	op	white
EU1A-1-CE	1	Ia	T	VL	op	robin's egg blue
	1	IIa40	R	M	op	robin's egg blue
	1	IIa40	R	L	op	robin's egg blue
	2	IIIa	T	L	op/cl	redwood/apple green
EU1A-2A-CE	1	IIa	O	M	op	robin's egg blue
	3	IIa	O	L	op	robin's egg blue
	1	IIa	F	L	op	robin's egg blue
	1	IIa40	R	M	op	robin's egg blue
	1	IIa40	R	L	op	robin's egg blue
	2	IIIa3	T	M	op/cl	redwood/apple green
	1	IIIa	T	L	op/cl	redwood/apple green
EU1A-2B-CE	3	W1a	T	M	op	white
	1	IIa	C	M	op	robin's egg blue
	1	IIa	O	L	op	robin's egg blue
	3	IIa	O	VL	op	robin's egg blue
	3	IIIa	T	L	op/cl	redwood/apple green
	2	IVa6	C	M	op/cl	redwood/apple green
	3	W1d	D	M	op	white
EU1A-3-CE	1	W1d	D	L	op	white
	1	IIIa	T	L	op/cl	redwood/apple green
	1	IVa5	R	L	op/cl	redwood/apple green
	1	IVa6	C	M	op/cl	redwood/apple green
EU1A-4-CE	1	Ia	T	VL	op	robin's egg blue
	1	IIa14	C	S	op	white
	1	IIIa	T	L	op/cl	redwood/apple green
	1	IVa	C	L	op/cl	redwood/apple green

<u>Provenience</u>	<u>Number</u>	<u>Class</u>	<u>Shape</u>	<u>Size</u>	<u>Glass</u>	<u>Color</u>
EU1A-5-CE	2	Ia	T	S	op	white
	4	Ia	T	M	op	white
	3	Ia	T	L	op	white
	4	Ia	T	L	op	robin's egg blue
	3	Ia	T	VL	op	robin's egg blue
	1	IIa	R	VL	op	white
	2	IIa	C	S	op	dark palm green
	1	IIa	O	M	op	robin's egg blue
	3	IIa	O	L	op	robin's egg blue
	3	IIa	O	L	op	white
	6	IIa	O	VL	op	robin's egg blue
	4	IIa13	R	S	op	white
	8	IIa13	R	M	op	white
	5	IIa13	R	L	op	white
	19	IIa14	C	VS	op	white
	25	IIa14	C	S	op	white
	2	IIa40	R	M	op	robin's egg blue
	3	IIa40	C	M	op	robin's egg blue
	2	IIa40	C	L	op	robin's egg blue
	1	IIa40	C	VL	op	robin's egg blue
	1	IIa3	T	M	op/cl	redwood/apple green
	3	IIa	T	L	op/cl	redwood/apple green
	1	IVa5	R	L	op/cl	redwood/apple green
	4	IVa6	C	M	op/cl	redwood/apple green
	6	IVa	C	L	op/cl	redwood/apple green
	16	W1a	T	S	op	white
	12	W1a	T	M	op	white
	12	W1a	T	L	op	white
	7	W1b	R	L	op	white
	1	W1b2	R	S	op	white
	1	W1b2	R	M	op	white
	1	W1c	O	M	op	white
	1	W1c	O	VL	op	white
	109	W1d	D	VS	op	white
	132	W1d	D	S	op	white
EU1A-6-CE	1	Ia	T	M	op	white
	2	Ia	T	L	op	robin's egg blue
	1	IIa	C	S	op	white
	1	W1b	R	L	op	white
EU1 & EU1A trowellings	1	W1d	D	M	op	white
	2	IIa	O	VL	op	robin's egg blue
	1	W1a	T	VL	op	white
	1	W1b	R	L	op	white