TECHNICAL ANALYSIS OF RENAISSANCE BRONZES FOR PROVENANCE STUDIES:

PILOT PROJECT

 $\mathbf{B}\mathbf{Y}$

BILLIE MILAM CHANDRA REEDY CAROL SUSSMAN

AUGUST 1988

APPENDIX 6 KEY TO THE DATA TABLE

Key to the Dataset

(The column numbers not listed refer to blank columns)

column(s)	type of data	kev
1◊2◊3	Sculpture number	G: Getty + assigned number
		K: Kunsthistorisches +
		catalog number
5	Line of Data	1
7	Region	A: Flemish
		D: Padua
		E: Netherlands
		F: France
		G: Germany
		I: Italy
		L: Florence
		M: Milan
		N: North Italy
		(Padua, Milan, Mantua)
		P: Spain
		R: Prague
		S: South Italy
		T: Mantua
		U: Uncertain
		V: Venice
8	Artist	U: Uncertain
		A: Antico
		B: Bertoldo di Giovanni
		C: Jacopo Sansovino
		D: Tiziano Minio
		E: Alessandro Vittoria
		F: Tiziano Aspetti
		G: Nicolo Roccatagliata
		H: Johann Gragor
		van der Schardt

		I: Giambologna
		J: Antonio Susini
		K: Adrien de Vries
		L: Caspar Gras
		M: Hubert Gerhard
		N: de Keyser
		P: Cellini
		Q: Francesco Bertos
		R: Giovanni Foggini
		S: Palma
		T: Campagna
		V: F.B.
		W: Girardon
9	Date Range (50 years)	A: ca. 1400
		B: ca. 1425
		C: ca. 1450
		D: ca. 1475
		E: ca. 1500
		F: ca. 1525
		G: ca. 1550
		H: ca. 1575
		I: ca. 1600
		J: ca. 1625
		K: ca. 1650
		L: ca. 1675
		M: ca. 1700
		N: ca. 1725
		P: ca. 1750
10	Date Certainty	0: uncertain
		1: certain
		2: fake
		runo
12◊13◊14	Height in centimeters	XX.X
16 ◊ 17 ◊ 18	Width in centimeters	XX.X

20021022	Depth in centimeters	XX.X
24	Number of separately cast pieces	1: one 2: more than one
How separately	cast pieces are attached:	
25	Cast on	0: no 1: yes 3: no
26	Brased/Welded	0: no 1: yes separate
27	Soldered	0: no 1: yes pieces
28	Pins	0: no 1: yes
30	Rivets	0: no 1: yes
31	Screws	0: no 1: yes
32	Sleeve/interior hoop	0: no 1: yes
Chaplets		
34	Size	0: none
		1: 1/8" or less
		2: greater than 1/8"
35	Shone	0
33	Shape	0: none
		1: round
		2: squared
36	Color in x-ray	0: none
		1: light
		2: dark
		3: same/medium/varies
38	Number	0: none
		1: few
		2: many
39	Iron chaplets replaced	0: no chaplets
-		1: Iron remains
		2:w/ similar alloy
		3:w/ different alloy

40	Voids remain	0: no 1: yes
41	Chaplets go through piece	0: no 1: yes
43	Pins located in cracks	0: no 1: yes
44	Threaded chaplets	0: no 1: yes
45	Wires used instead of chaplets	0: no 1: yes 2: wire holes remain
47	Number of armatures	9: nine or more (number is indicated if less than nine)
48	Armature material	0: none 1: iron 2: copper alloy
49	Armatures are:	0: no armature 1: not knarled 2: knarled
50	Armatures are:	0: no armature 1: not straight 2: straight
52	Armatures are:	0: no armature 1: not hooped 2: hooped
53	Armatures are:	0: no armature 1: not wired 2: wired

54	Armatures are:	0: no armature1: not intertwined2: intertwined
55	Armatures are:	0: no armature1: discontinuous2: continuous
57	Distribution of porosity	0: none 1: even 2: uneven
58	Size of pores	0: none 1: 1/32" or less 2: greater than 1/32"
59	Amount of porosity	0: none 1: small 2: medium 3: large
60	Thickness of metal	0: thin 1: average 2: thick 3: solid
62	Thickness of metal	0: even 1: uneven 2: solid
63	Technique	0: slush 1: lost wax 2: sand
64	Mold lines present	0: no 1: yes
65	Cracking of casting	0: no 1: yes

66	Hole in back	0: no 1: yes
68	Hole on top	0: no 1: yes
69	Hole underneath	0: no 1: yes
70	Magnetic metal	0: none 1: local 2: overall
71	Light, dense area at join (joined in wax)	0: no 1: yes
72	Dark line at join (joined in metal)	0: no 1: yes
74	Casting flaws	0: none 1: few 2: numerous
75	Casting flaws	0: none 1: repaired 2: open 3: both
76	Shape of repairs	0: none1: irregular2: regular3: both
78	Repairs are:	0: no repairs1: not cast on2: cast on
79	Repairs are:	0: no repairs1: not mechanically added2: mechanically added

80	Repairs are:	0: no repairs 1: not puddled 2: puddled
1◊2◊3	Sculpture number	
5	Line of data	2
7	Repairs are:	0: no repairs 1: not lead 2: lead used
8	Repairs are:	0: no repairs 1: not soldered 2: soldered
9	Repairs are:	0: no repairs1: not riveted/pinned2: riveted/pinned
10	Repairs are:	0: no repairs1: not screwed2: screwed
11	Repairs are:	0: no repairs1: not less dense material2: less dense fills used
Hollowness	of:	_
13	1st figure torso	0: none (key for
14	1st figure arms	1: solid 13-21)
15	1st figure legs	2: mostly solid
16	1st figure appendages/attributes	
18	2nd figure torso	3: mostly hollow
19	2nd figure arms	4: hollow
20	2nd figure legs	5: differ
21	2nd figure appendages/attributes	~

23	Base	0: non-metal/not original1: hollow2: solid
24	Core	0: none (solid)1: not modelled2: partially modelled3: carefully modelled
25	Core	0: no core1: none removed2: some removed3: much removed
27	Scooping of core	0: no core1: no scooping2: for armature3: local scooping
29	Silver eyes	0: no 1: yes 2: inlay missing
30	Gilding	0: none 1: leaf 2: mercury
31	Tooling	0: fine 1: medium 2: crude
32	Stroke	0: short 1: long
34-	Tooling for texture (decorate form)	0: no 1: yes

35	Tooling for design	0: no	
	(defines form)	1: yes	
36	Format	0: relief	
		1: in the round	
38	Back finishing	1: same as front	
		2: less than front	
40	Flashing left on surface	0: no	
40	Trashing left on surface	1: yes	
		1.) 0.0	
41	Flashing on interior(light) 0: no		
		1: yes	
42	Flashing in wax interior(dark) 0: no		
		1: yes	
44045		0 (6 1)	
44045	Color of patina	0: none (for one color)	
	(44 is primary color;	1: red-brown	
	45 is secondary color.)	2: brown	
		3: green 4: black	
		5: golden	
		J. golden	
46	Transparency	0: none	
	•	1: transparent	
		2: opaque	
47	Patina	0: even	
		1: uneven	
49	Streaked patina	0: no	
		1: yes	
5.0	Splatahad/mattled	O: no	
50	Splotched/mottled	0: no	
		1: yes	

51	Chipped patina	0: no
		1: yes
_		
52	Worn patina	0: no
		1: yes
53	Bubbled and/or burst	0: no
		1: yes
55	Metallic flakes	0: no
		1: yes
56	Patina	0: old
30	Faulla	
	+	1: new
		2: both- two types
		3: uncertain
57	Degree of patinated surface fineness	S
	-	0: high or shiny
		1: medium
		2: crude

Line 3:		
1,2,3	Sculpture number	
5	Line of data	3
7	Quartz percentage	0: absent 1: 1-5% 2: 5-10% 3: 10-20% 4: 20-30% 5: 30-40% 6: 40-50% 7: > 50%
8	Quartz size	0: inapplicable 1: fine 2: medium 3: coarse
9	Quartz sorting	0: inapplicable 1: poor 2: moderate 3: good
10	Quartz shape	0: inapplicable 1: angular 2: rounded
11	Polygonal quartz	0: absent 1: present
12	Polycrystalline quartz	0: absent 1: present
13	Microcrystalline quartz	0: absent 1: present
14	Fibrous quartz	0: absent 1: present
15	Undulous quartz	0: absent 1: present
16	Quartz vacuoles	0: absent 1: present
17	Authigenic quartz	0: absent 1: present
18	Quartz inclusions	0: absent 1: present

20	Uncarbonized Organics	0: absent 1: present
22	Carbon percentage	0: absent 1: 1-5% 2: 5-10% 3: 10-20% 4: 20-30% 5: 30-40% 6: 40-50% 7: > 50%
24	Carbonate amount	0: absent 1: rare 2: abundant 3: very abundant
25	Carbonate size	0: inapplicable 1: fine 2: medium 3: coarse
27	Hematite amount	0: absent 1: rare 2: abundant 3: very abundant
29	Plagioclase feldspar	0: absent 1: present
30	Microcline feldspar	0: absent 1: present
31	Orthoclase feldspar	0: absent 1: present
33	Muscovite	0: absent 1: present
34	Biotite	0: absent 1: present
35	Chlorite	0: absent 1: present
37	Clinopyroxene	0: absent 1: present
38	Orthopyroxene	0: absent 1: present
39	Amphibole (hornblende)	0: absent 1: present

41	Epidote and clinozoisite	0: absent 1: present
43	Apatite	0: absent 1: present
44	Zircon	0: absent 1: present
45	Rutile	0: absent 1: present
47	Spinel	0: absent 1: present
49	Metamorphic lithics	0: absent 1: present
50	Sedimentary lithics	0: absent 1: present
51	Volcanic lithics	0: absent 1: present
52	Plutonic lithics	0: absent 1: present
54	Tourmaline	0: absent 1: present
55	Garnet	0: absent 1: present
56	Glauconite	0: absent 1: present
58	Gypsum	0: absent 1: present
59	Serpentine	0: absent 1: present
60	Olivine	0: absent 1: present