

*Shelby Page*

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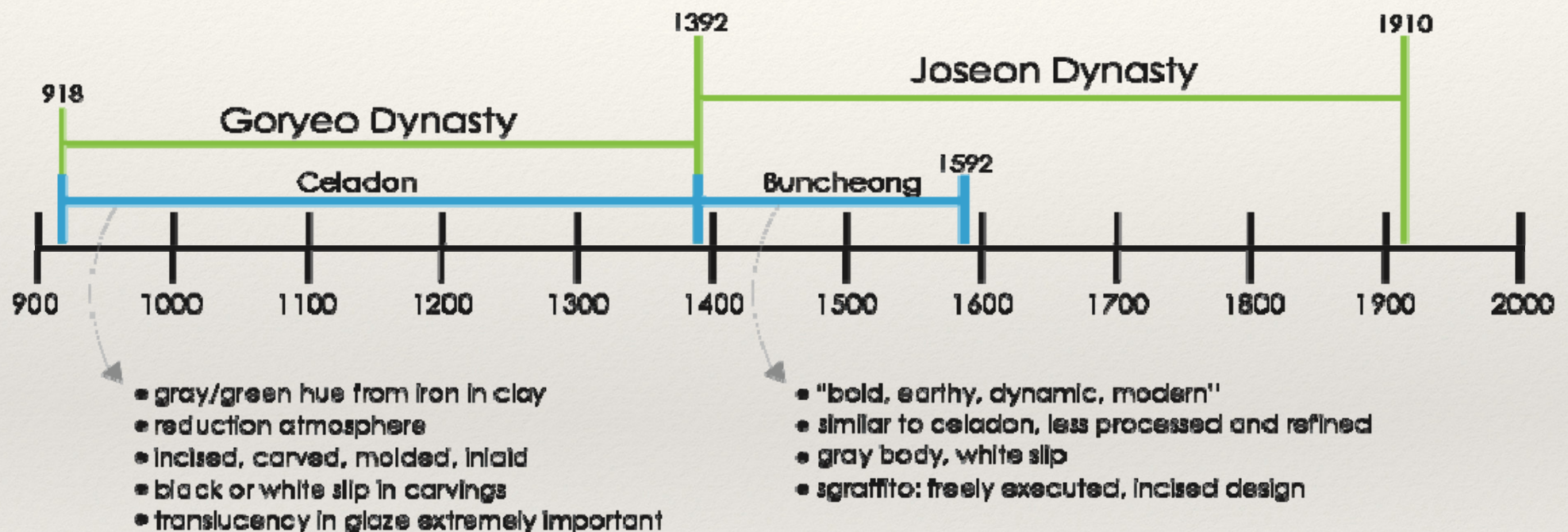
# Study of Korean Ceramics

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# Timeline of Korean Ceramics

Adapted from Metropolitan Museum of Art articles "Joseon Buncheong Ware" and "Goryeo Celadon", written by Soyoung Lee



"If Goryeo celadon embodies classical elegance, Buncheong ware represents experimental spirit."

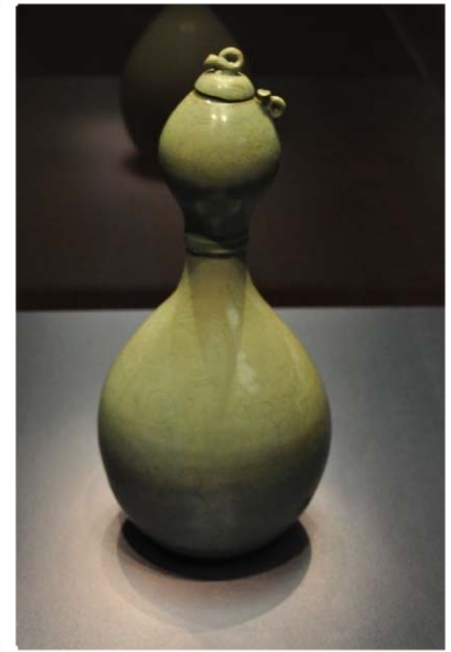


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# Beginning Research

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- Goryeo Dynasty Celadon Pieces
- Blue/Green Hue
- Floral and Nature-Based Carvings





# Goryeo Celadon Surfaces





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# Buncheong Surface Decoration Techniques

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Stamped



Incised



Brushed Slip



Inlaid



Iron-Brushed



Reverse Inlaid





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# Buncheong Pieces

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### Korean Techniques

#### Sanggan (Inlaid)

- Curve, fill with slip/underglaze, fire, glaze, fire

#### Mhwa (Stamp)

Design Produced with stamp

#### Johwa (Signifato)

Cover in slip, carve slip away to reveal clay body

#### Cholhwa (Underglaze Iron)

~~Blue & green~~

Iron Oxide is painted on before the piece is glazed

#### Buncheong Ware

Blue/teal ceramic w/ white slip

Layer in white slip, carve/etch a design.

#### Goryeo Celadon

Jade-colored celadon in Golden Era



### Goryeo Celadon

#### Initial Stage (9th century-1122)

- Went from cups w/ no decoration to 11th century coverings in inlay + relief, iron glaze, + white slip designs.

- Grew more stable in 11th century

- Two Major Kiln Areas

- Gangjin (Both in South Jeolla Province)
- Buan

- Largely responsible for rapid development of Goryeo Celadon; partly b/c kilns were under direct govt control/guidance

- Chinese Influence

#### Middle Stage (Golden Age: 1123-1251)

- Jade color reached perfection

- Transparency of glaze allowed for intricate carving to show through

- Beginning of inlay (Sanggan)

- Continued by same govt-controlled kilns

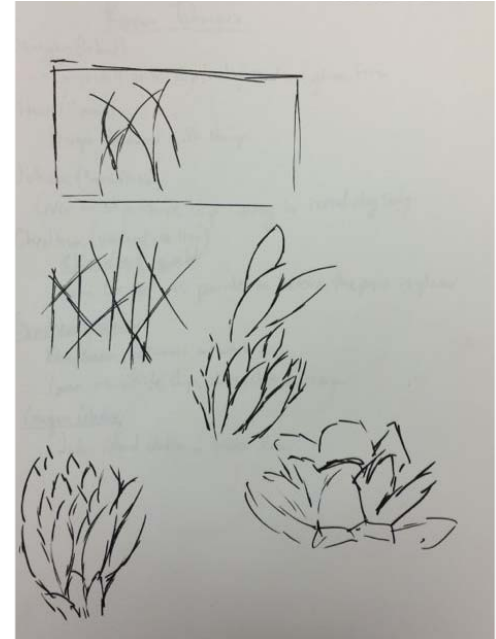
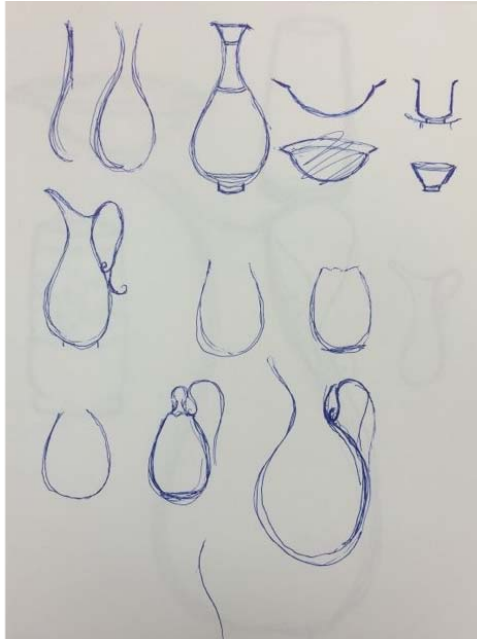
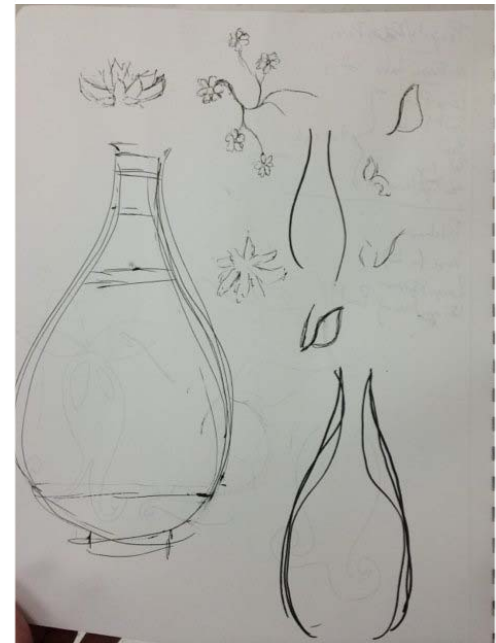
#### Declining Stage (1251-1391)

- Mongol invasion caused decline

- Declination continued until fall of Goryeo in 1391

- Green dulled, lines lost grace, no artistic enthusiasm

- Foundation for buncheong began





# Celadon Glaze Formulation

- Base Celadon Bodies, Same Ingredients, Slight Variance
- Different Colorants to Give a Green/Blue Hue
- Main Components
  - Custer Feldspar: Flux
  - Whiting: Flux
  - Flint: Glass-Former
  - Kaolin: Stabilizer (Clay)

Celadon Recipes		VARIATIONS		60	61	71	72
Potash Feldspar	27.21	EPK	1	2	a 25	a 30	a 20
Whiting	19.58	Whiting	2	2	b 30	b 30	b 25
E.P.K.	19.72	Flint	5	3.3	c 25	c 30	c 30
Flint	39.88	Custer Feldspar	4	2.7	d 25	d 25	d 25
Yellow Iron Oxide	1.5	Yellow Oxide		2.2			
Chrome Oxide	0.1						
Cornwall Stone	40						
Silica	20						
Whiting	15						
Zinc	10						
EPK	5						
Iron	1/2%						

Celadon		Variations	
Potash Celadon	24.5	Potash Celadon	24.5
Custer Feldspar	54.5	Custer Feldspar	54.5
Whiting	19.6	Whiting	19.6
Kaolin	18.6	Kaolin	18.6
Barium Carbonate	1.9	Barium Carbonate	1.9
Ti. Oxide	1	Ti. Oxide	1
Yellow Iron Oxide	0.5	Yellow Iron Oxide	0.5

Colorants	
Celadon	1% Iron Oxide
Dark Celadon	2% Iron Oxide
Mason Stains	1370: 2% 6364: 0.5%

#1	#2	#3
Custer Feldspar 25	Custer Feldspar 25	Custer Feldspar 25
Whiting 30	Whiting 30	Whiting 30
Flint 25	Flint 25	Flint 25
Kaolin (G) 20	Kaolin (G) 20	Kaolin (G) 20
Spanish R10 1%	Spanish R10 2%	Mason # 1370 2%
		Mason # 6364 0.5%
#4	#5	#6
Custer Feldspar 25	Custer Feldspar 25	Custer Feldspar 25
Whiting 25	Whiting 25	Whiting 25
Flint 25	Flint 25	Flint 25
Kaolin (G) 25	Kaolin (G) 25	Kaolin (G) 25
Spanish R10 1%	Spanish R10 2%	Mason # 1370 2%
		Mason # 6364 0.5%
#7	#8	#9
Custer Feldspar 20	Custer Feldspar 20	Custer Feldspar 20
Whiting 25	Whiting 25	Whiting 25
Flint 30	Flint 30	Flint 30
Kaolin (G) 25	Kaolin (G) 25	Kaolin 25
Spanish R10 1%	Spanish R10 2%	Mason # 1370 2%
		Mason # 6364 0.5%



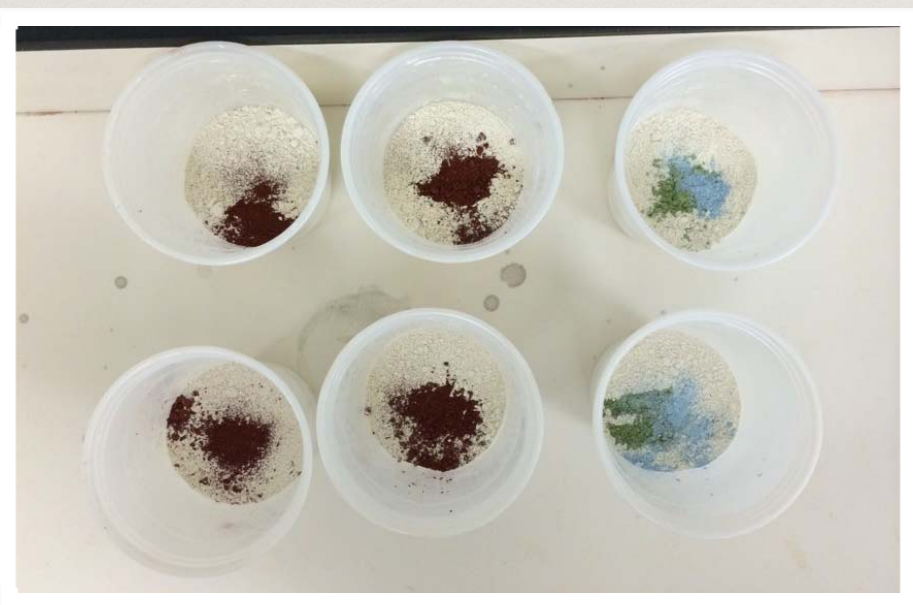
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# Test Tile Creation

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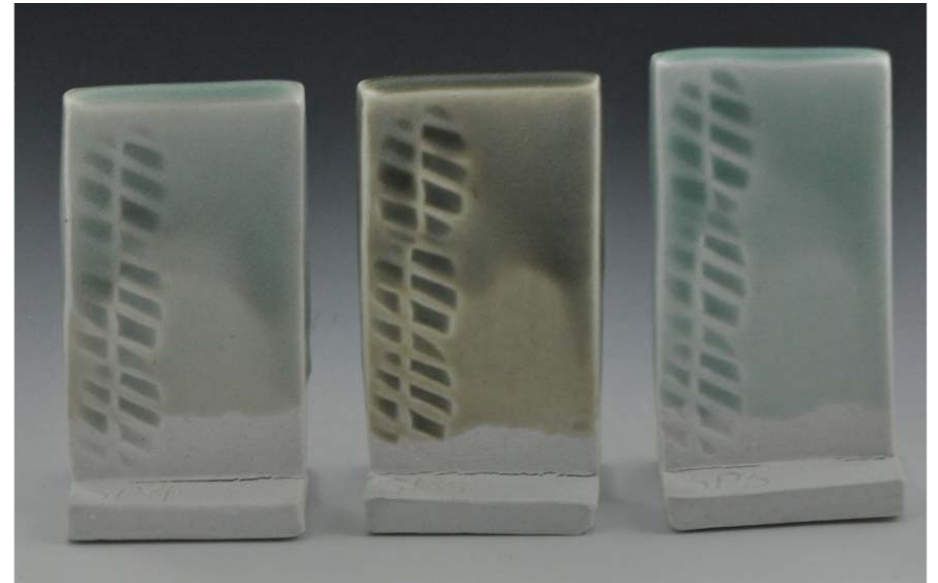
# Glaze Mixing and Testing



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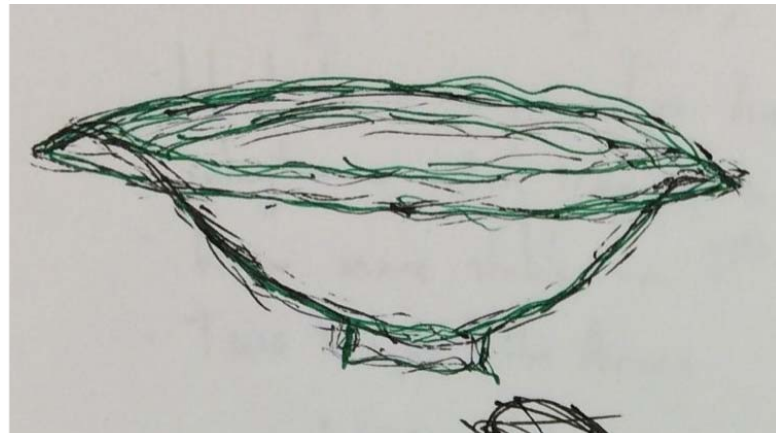
# Finished Tests

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# Creating the Pieces

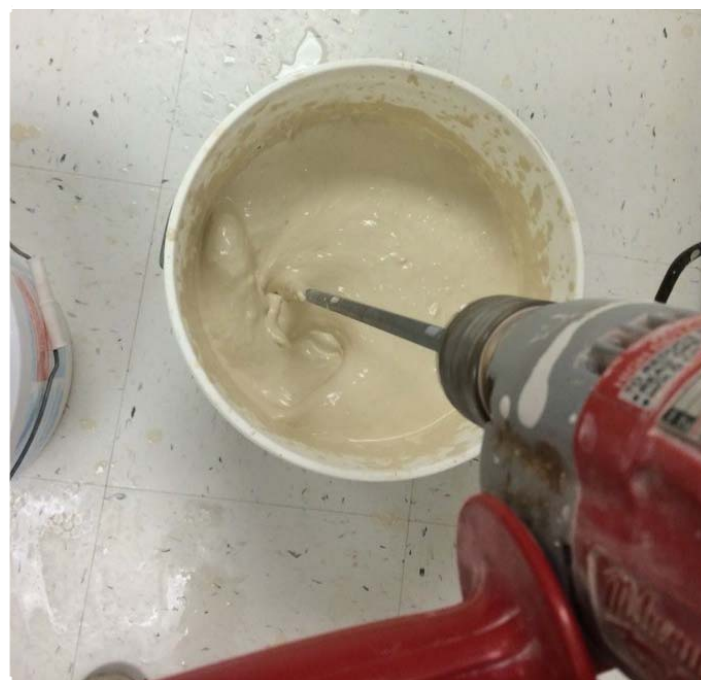




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# Mixing and Using Slip on Stoneware

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# Small Stoneware Plates with Slip

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# Large Porcelain Plates

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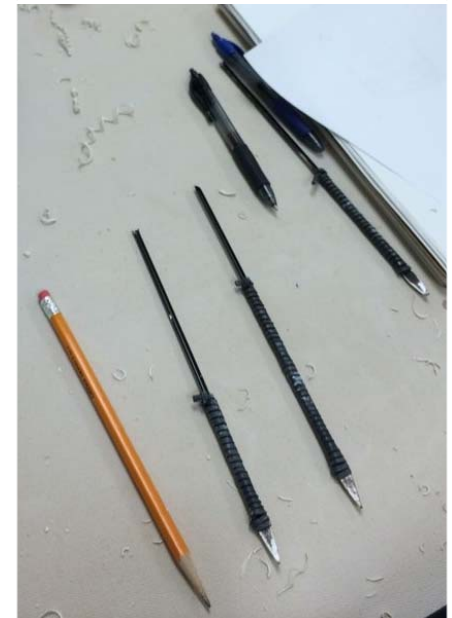




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# Korean Carving Tools

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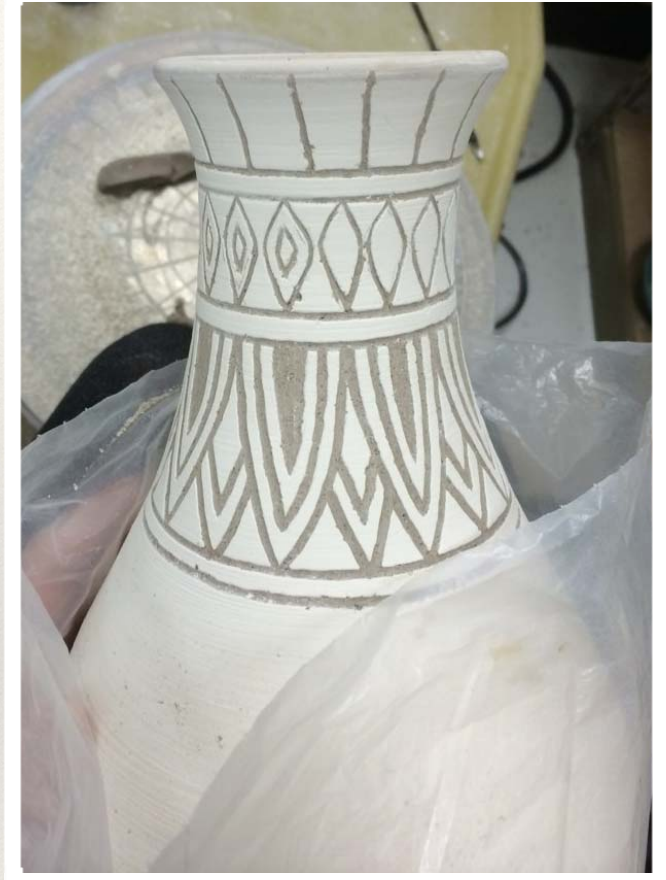




# Carving









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# Finished Pieces

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# Finished Pieces

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# Finished Pieces

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# Finished Pieces

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# Finished Pieces

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Buncheong Bottle,  
Joseon Dynasty, 15th Century