

Sawdust Firing

By Kevin Dykstra

Ceramics 230 Research Project



Antonia Salmon. Two balancing pieces,
burnished and sawdust fired.

Maria Martinez



- Uses local natural clays and adds volcanic ash and water
- Hand made coil pots
- Applies iron-bearing slip
- Stone burnishes

Maria Martinez outside her home in 1976
San Ildefonso pueblo, New Mexico.

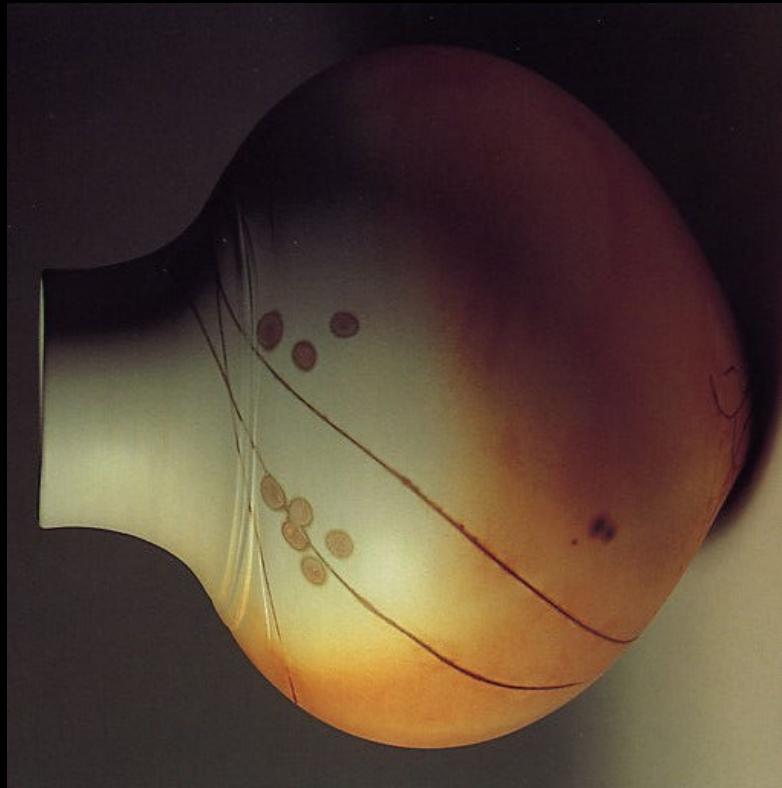
Maria Martinez



- Stacks pots on
rack with wood
underneath
- Encloses them
with metal
- Stacks cow chips
around them
- Starts fire
- Smothers with ash

Maria Martinez's black pots.

Smoke and Form



John Dermer. Terra sigillata vessel.
Height 60cm.

Clay Bodies

- Stoneware with
grog
- Terracotta with
grog
- Porcelain with
moloche



Karen Hessenberg. Porcelain, burnished and sawdust fired. Height approx. 16cm.

Colouring

- Body Stains
 - using coloured clay bodies or adding oxides to the clay
- Slips
 - adding oxides to slips and then applying to the clay

• Terra sigillata



Judy Trim. Blue pots. Sprayed coloured slips on T-Material, fired to 1000 C and then sawdust fired.

Burnishing

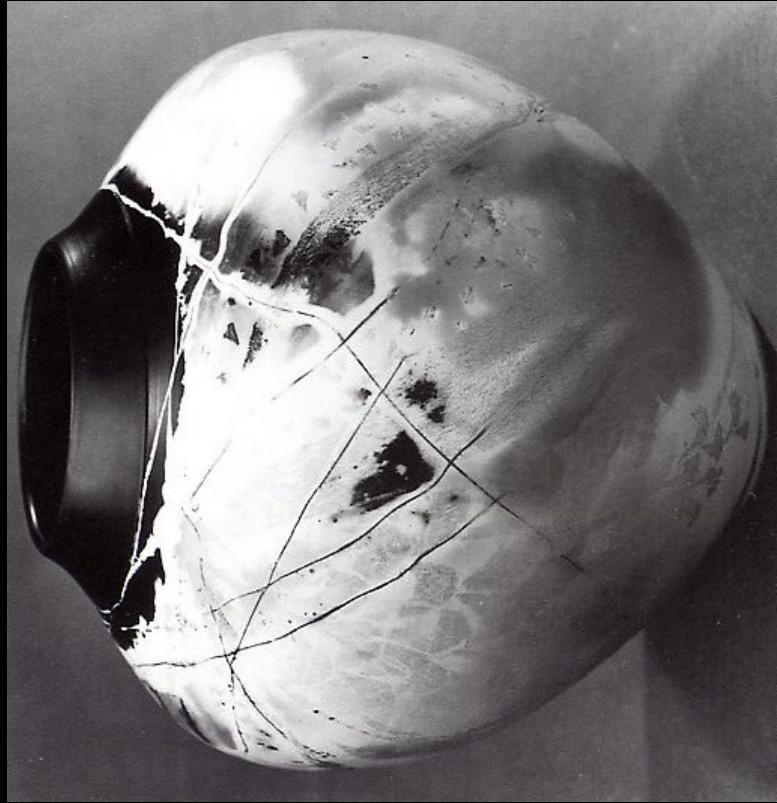
- Tools: stones, spoons, burnishing tools, plastic, chamois
- Surface smoothed at creation
- Grog compressed using metal rib
- Burnished at leather hard and bone dry



Gabriele Koch. T- Material with small amount of porcelain. Burnished coil pot. Bisqued to 950 C. Height 13cm.

Bisquing

- To give the clay body strength
- Low temperature
 - deeper blacks but more fragile
- High temperature
 - more vitrified and less responsive to smoke



Ruth Allen. Saggar-fired porcelain jar.

Burnished, tinned copper-wire lines,
masking tape patterns and trapped carbon
black areas. Height 28cm.

Kilns

- Saggars
- Brick Kilns
- Pit Kilns
- Bin Kilns
- Bonfire and Open-pit Kilns
- Sophisticated Kilns



Byron Temple. Porcelain sagger fired to 1300 C. Height 12.7cm, width 7.6 cm.

Fuels

- Sawdust
- Branches
- Pinecones
- Dung
- Corn seeds
- Copper carbonate/sulphate and salts, iron filings



Barry Hayes. Pit-fired vessel with fumed colours.

Resist Techniques

- Contact with other pieces during firing
- Fresh slabs of clay
- Dry grass or paper under slabs
- Masking tape and slip
- Slip resist



Jane Perryman. Jugs with slip and masking tape resist patterns. Sawdust fired.

Firing Considerations

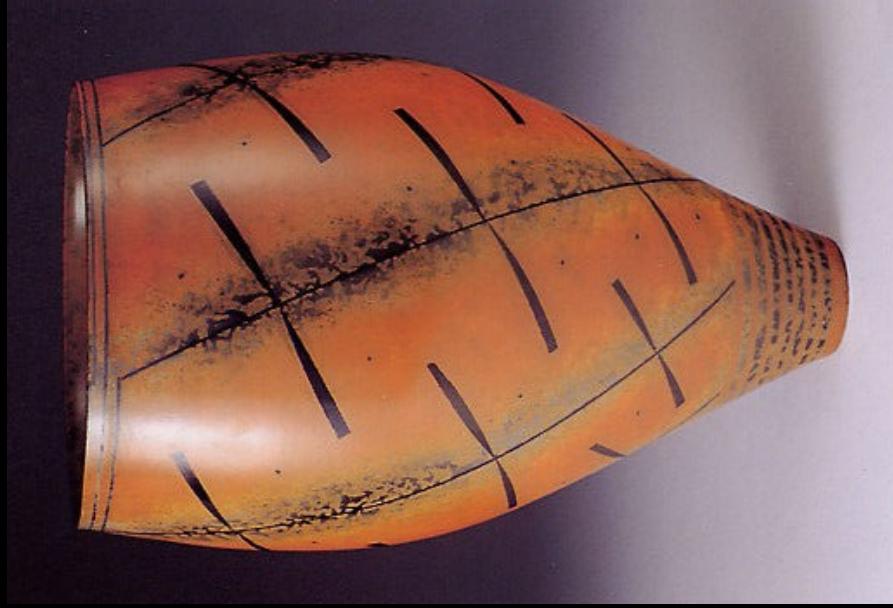


- Arrangement of pieces
- Amount of air circulation
- Sealing the kiln at the right moment
- Fire evenly
- Type of sawdust
- Packing and quality of sawdust
- Speed of firing

Anne James. Bottles lustered and then sawdust fired.

Form

- Subtle patterns and tones created during the firing are sympathetic to the forms they make



Duncan Ross. Burnished vase.
Terra sigillata fired in a sawdust
saggar. Height 23 cm.