Pre-Digital Work

Molds from natural objects
Wax castings combined for sculpture in bronze
“Juxtamorphs”—close forms
Work extends into ceramics, plaster, paper, and “Sculpted Paint”

Formation of Juxtamorphic Art Movement
JUXTAMORPHS
(jǔks’ ˈte môrfs’) n. three dimensional montages of natural forms and textures. [juxta- L. “near,” “close to,” “beside” & morph Gk. “form.” Lit. “close forms.”]

CAST IN PAPER BY
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September 9 - October 7
Loeb, Rhoades Market Hours Gallery
8th Floor, Transamerica Pyramid
600 Montgomery Street, San Francisco
Reception Friday September 9, 4:30 p.m.
Computers as Collage Machines

Simple 3-D forms with photo textures
Output limited to 2-D prints
3-D Scans Begin to Replace Molds

Difficult for early 3-D programs to handle
Height-field programs convert 2-D to 3-D
Sculptures exist only in computer
Hand-operated touchprobe scanner
New Inexpensive CNC Tools Hit Market

Output possible in soft materials
Scale still a limitation
3-D Scanners Improve

Automatic touchprobe scanners
Non-contact rotary laser scanners
Output Equipment

Improves

Router for large flat things
Mill for directly cutting metal
4th axis becomes available
Ceramics & Jewelry

Rolling stamps make continuous impressions.

Wax carvings can be molded for lost-wax castings.
Large Output
Still a Problem

My Solution
Large homebuilt machine with 4th axis
CNC Carving Can Use Many Materials

Wood
Plastics
Machinable Wax
Metals
Ivory nuts
Advantages of Virtual Sculpting

- Natural forms as data: scaled and distorted
- Maquettes are possible
- Replication in different materials
- Sculpture over the Internet
Questions?
(en anglais s’il vous plait)

Andrew Werby
ComputerSculpture.com