## FROM CLAY TO BRONZE

90 foto's showing the making of the sculpure "The Swimmer"

From inspiration up to the finishing touch

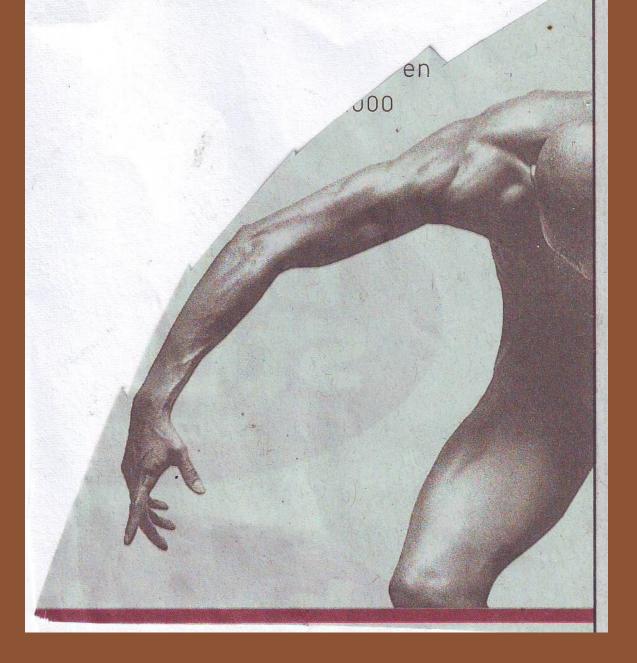
- From clay to wax
- From wax to bronze

- Modeling the sculpture in clay
- Making of a copy in wax
- The lost wax technique: casting the sculpture in bronze
- Finishing the bronze sculpture

1 modeling the sculpture

Inspiration
Preliminary study
Foto's
Drawing

Fixture for the sculpture Modeling



Inspiration : foto in magazine : publicity for ballet event

## Michael Phelps in olympic games





## Draft on paper





Fixture in iron



Starting modeling in clay













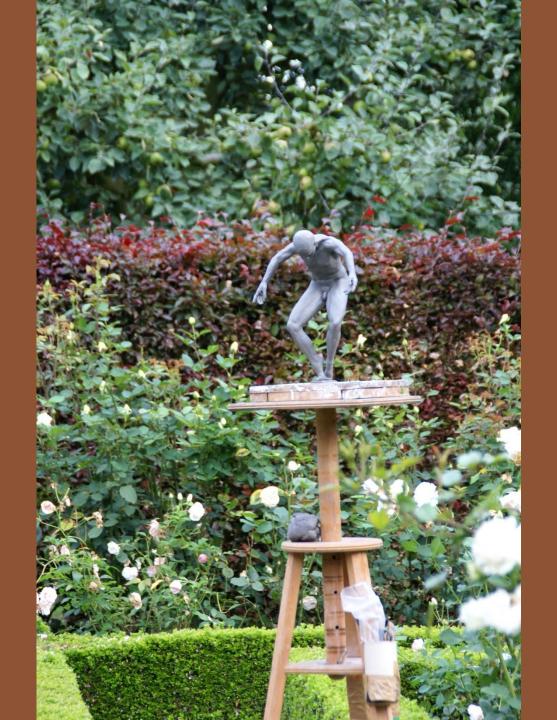




The Swimmer in clay front view



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The Swimmer in clay detail



## 2 Making of a copy in wax

- Rubber and plaster mold
- Making of a copy in wax
- Retouching the wax sculpture



First layer of rubber



Dividing plates are placed



Second rubber layer



Opening in rubber mold used to pour in the wax



Making plaster mold on the rubber mold



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Preparing the connecting holes



Unfixing the plaster mold



The 3 pieces of the plaster mold



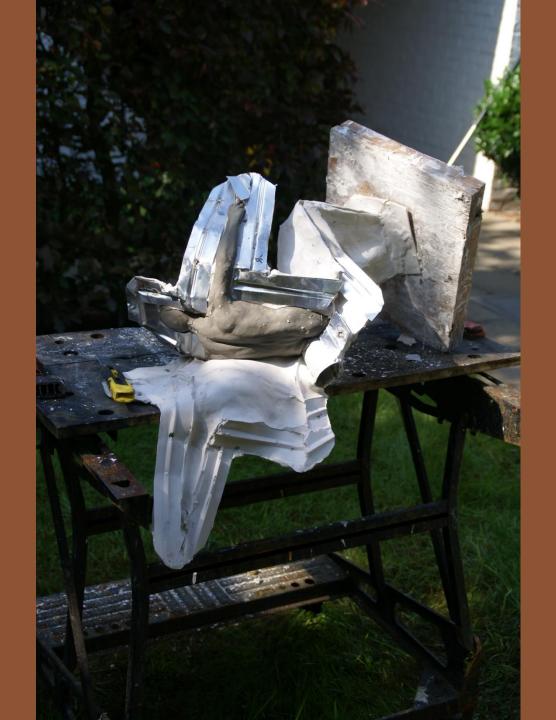
Unfasting the rubber mold



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The sculpture in clay visible again





All the parts of the mold and what rests of the original clay sculpture



The parts of the rubber/plaster mold



The original clay figure returns to the clay container



Rubber mold fixed into plaster mold



All parts put together



Brushing warm wax into the rubber mold



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All part brushed into with warm wax



Connecting the mall parts with iron wire



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Pouring warm wax in



Opening the mold when the wax is cooled





Copy in wax before removing the casting seams

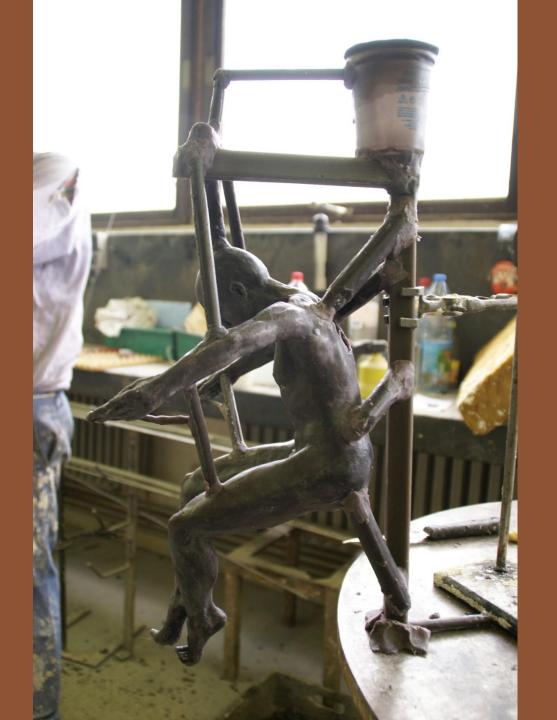
## 3. The lost wax technique

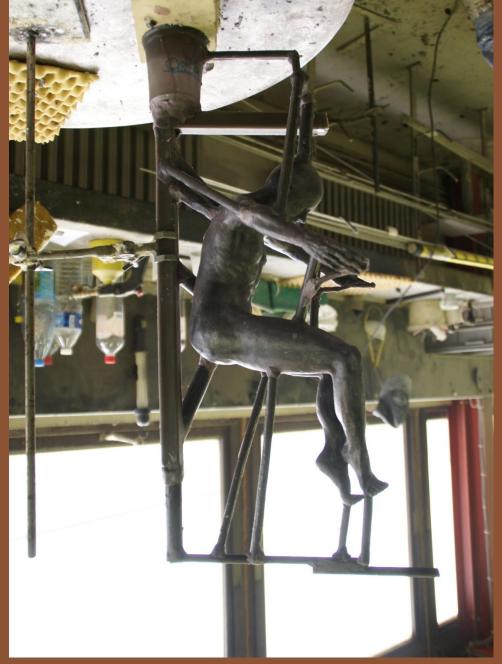
- Mounting the pour channels and the vent channels
- Covering the wax sculpture with fireproof plaster
- Warming up in the oven: the wax is lost
- Casting in bronze











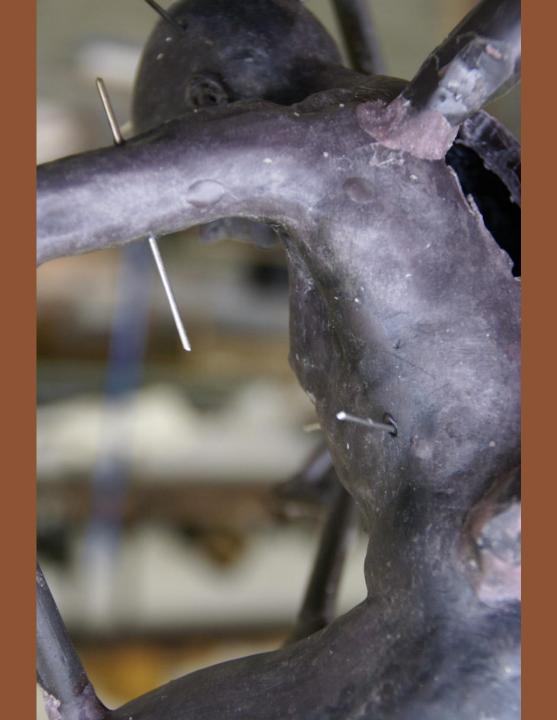
All elements in wax are mounted.





Detail of the wax casting pipes on the hand







Covering with fireproof plaster

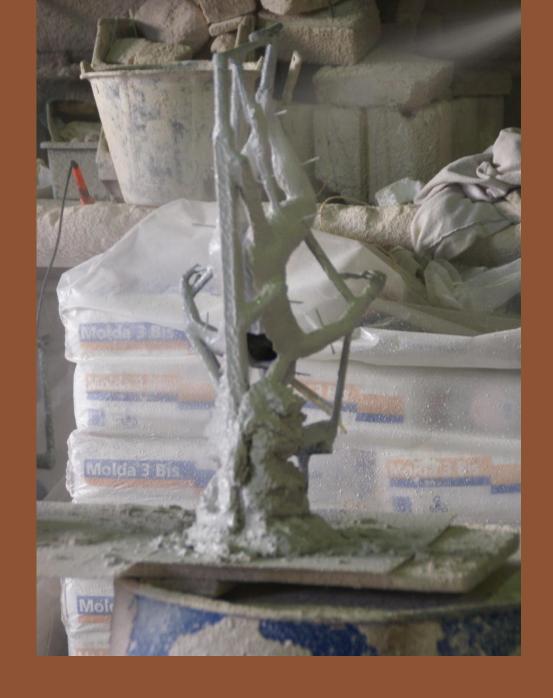


First layer of fireproof plaster

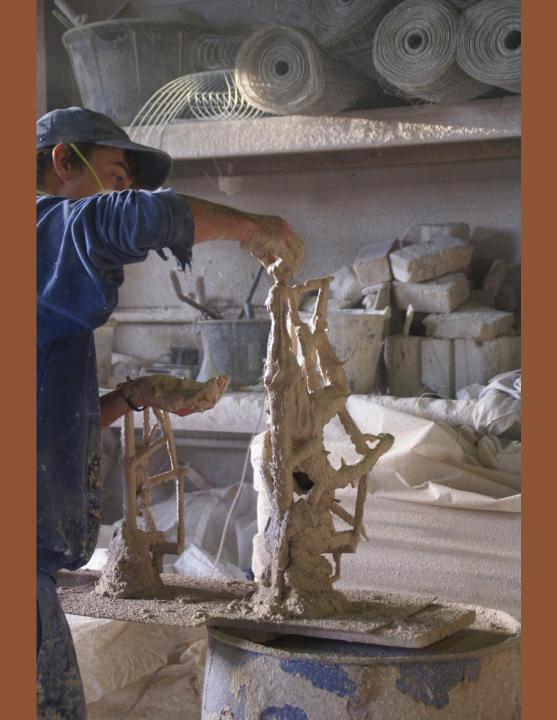


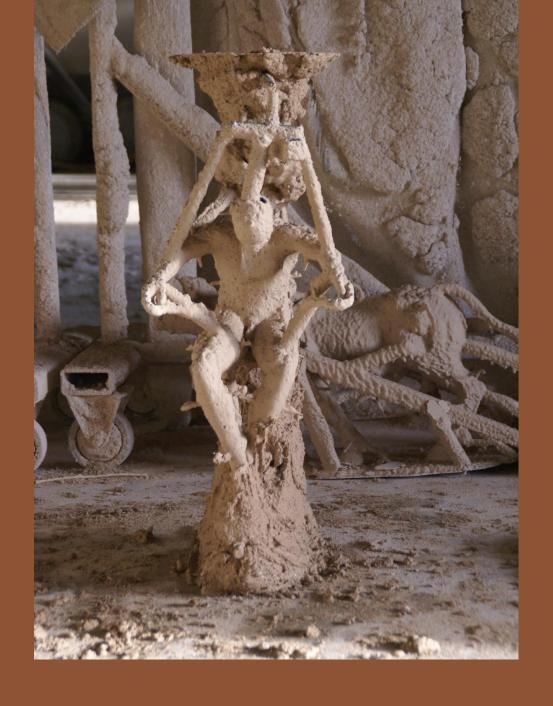


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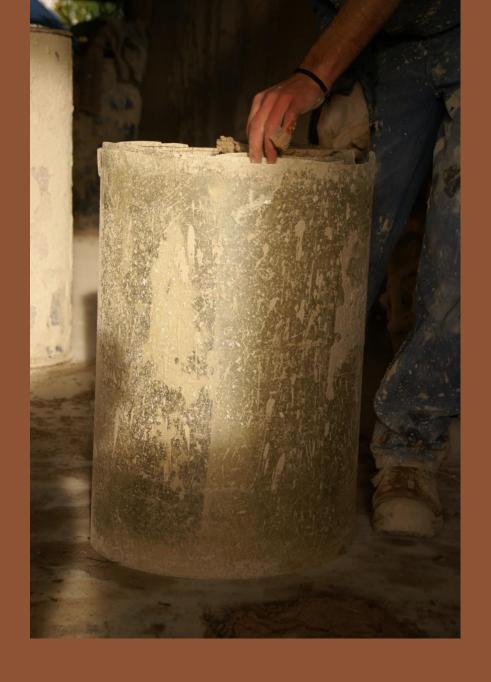


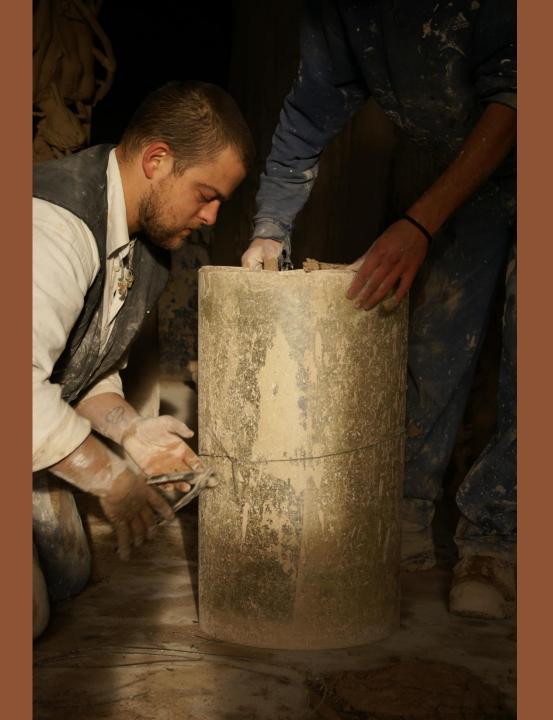




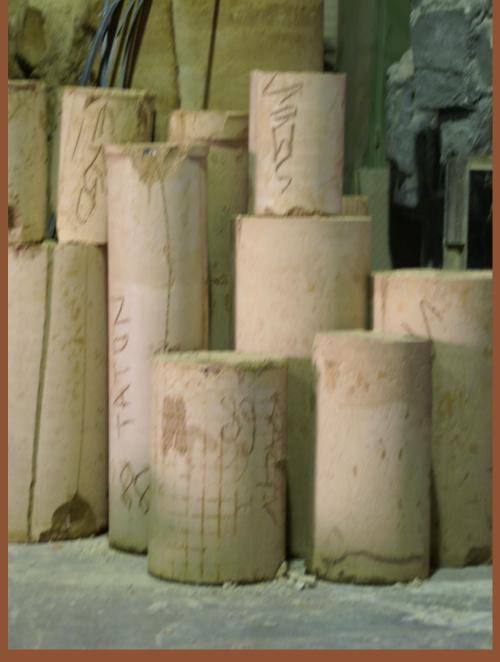












Ready for warming up in the oven



Intersection of the molding cilinder with the wax sculpture inside



Molding forms in the sand box ready for casting



Liquid bronze on 1,350°C ready for casting



Pouring the liquid bronze into the casting forms



A few minutes after the casting ready to cool off for 3 days

- 4. Finishing off the bronze sculpture
- Extrication out of the molding cilinder
- Removing the casting channels
- Grinding and sand blasting
- Patinating



Molding cilinder with bronze sculpture inside



Removing the fireproof plaster



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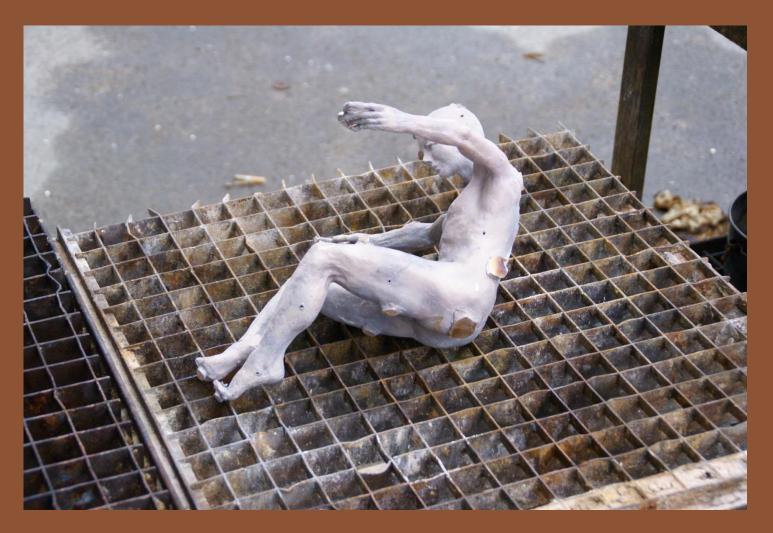
Bronze sculpture with casting pipes and plaster layer



Cutting off the casting pipes



Removing the plaster inside



Sculpture after removing the casting pipes



After sand blasting



Finishing off





After sand blasting Ready to be colored



Warming up



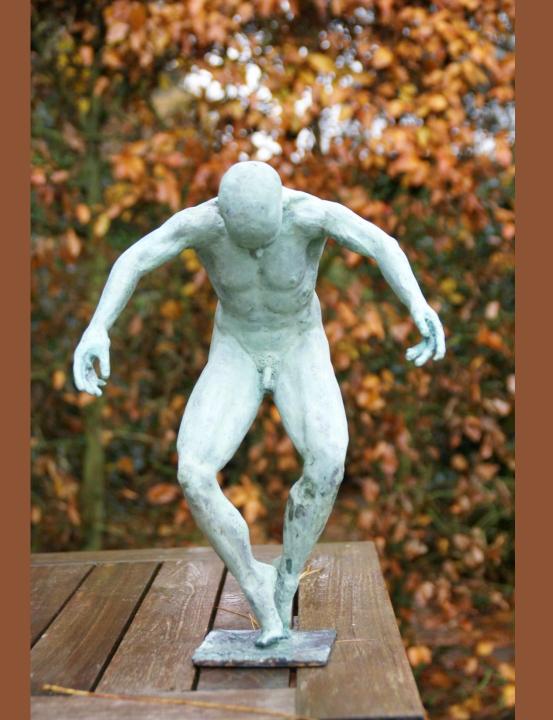
Brushing the primer



Primer is fixed

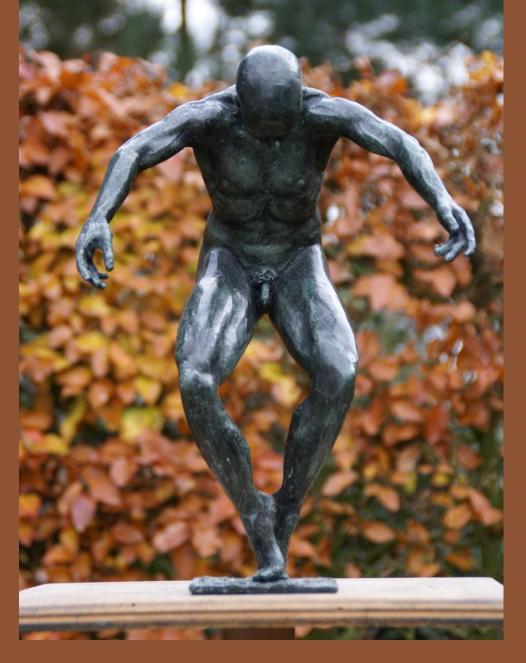


Second patina layer





Dark wax on second patina layer



Ready after rubbing up with cleaning cloth



finished