

### **BROAD SHEET**

**BROAD SHEET** communicates the work of the Museum of the History of Science, Oxford.

It is posted on the Museum's website, sold in the shop, and distributed to members of the mailing list, see www.mhs.ox.ac.uk.

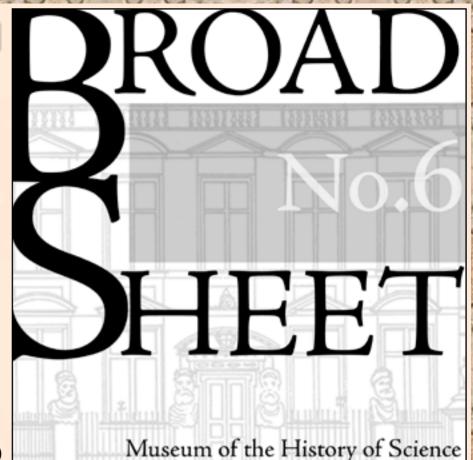
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# SMALL WORLDS

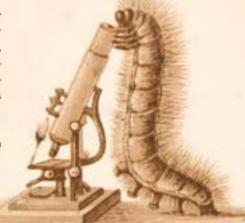
#### the art of the invisible

The 'Small Worlds' project at the Museum of the History of Science has been active since June 2006 with the support of a grant from the Renaissance in the Regions Designation Challenge Fund administered by the Museums, Libraries and Archives Council. Research staff on the project are completing a catalogue, with photographs, of the Museum's large collection of microscopes and microscopical specimens, which will be made accessible via an internet database.

A further outcome is a special exhibition, Small Worlds: the art of the invisible, which aims to present the specimens in an original and engaging way - a particular display challenge since the material itself is too small to be seen directly. The exhibition will be accompanied by a programme of public events and will also be available in an on-line version.

The Museum staff have collaborated with an artist and a poet in producing the exhibition. Inspired by the collection, Heather Barnett has made animated films, installations and textile designs, and Will Holloway has created a range of poems that relate directly to the displays. These can be heard via audio-guide in the gallery and are published here, in the sixth issue of the Museum's Broadsheet.

The 'Small Worlds' web pages, including the films and the spoken poems, are at www.mhs.ox.ac.uk/smallworlds.



### The Worm of Destiny

There must have been a kind of worm with legs no more than bulges, pivoting along the sea bed and there must have been a slide of gravel or a stranding in a pool, dividing one worm nation into two.

In time, their limbs and manners then diverged (the ways of life of nations often do) but one worm was the worm of destiny, which grew, invented mandibles and joints, became the spider, crab and honeybee, and ruled the planet in a million ways; its sister set her heart on slumming it with microbes, hiding in the worlds between soil particles and in the shade of moss, and rarely used the special gift she had of drying herself up just like a seed, enduring radiation, cold and heat.



The Earth, somebody said, is a cassette, a C600 million, so rewind, you'll hear a different song play every time as different creatures stomp around the world, so even fossils are not set in stone, there is no worm of destiny, just worms of lottery and when I've sat and drawn the losers in my notebook then I've seen the ghosts of everything that might have been.

I've seen the triumph of the tardigrades, acquiring lungs, emerging from the swamp, to glide on membranes, taut between eight legs, their stylets piercing lizards with a shriek and drinking out the destiny. I've watched them lumbering and roaring on the steppes, surviving fire and ice and meteorites. I've seen their clever claws make a stone axe and rehydration systems of brass pipes and microchips to end their hibernations, the day their starships reach their destinations.

#### Feedback Loop

Hello Human, We are the Foraminifera, bobbing about without a rudder at the top of the ocean. Round and round go our pointlessly detailed, tiny, carbonate spirals.

Now, we might be microscopic but we're not narrow-minded so we're speaking today for all invisible marine creatures, not that we'd hector you about your own locomotion, we're plankton, by definition we have no motivation.

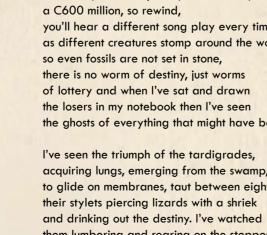
We just float, then we die and our shells sink to the bottom, becoming ooze and eventually chalk which is so useful for making diagrams and the South Downs. We remember other coastlines and the blithely doomed Cretaceous dinosaurs, while what you know about the ebb and swell of the weather since then you know by dredging up and measuring the seafloor squelch of our fallen bodies.

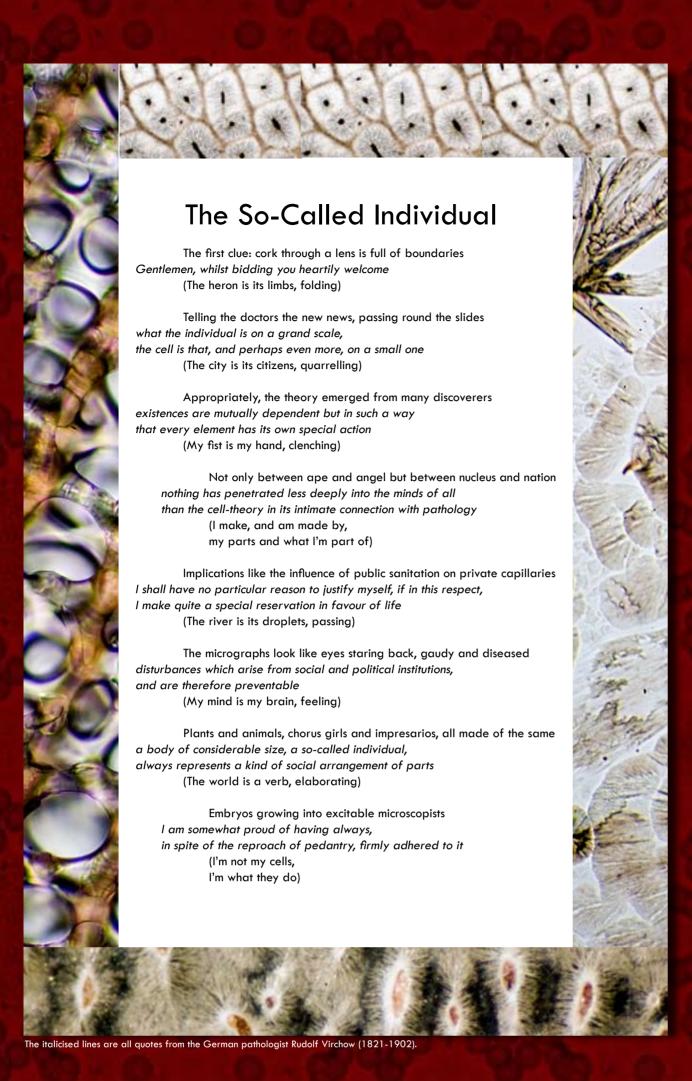
And what you have discovered is this: that we are the ones who turn your smoke into intricacy and oxygen but only up to a point at which your smoke makes the sea too warm for us, too acidic for our shells. So you're making your own little spiral: more carbon, less plankton, more carbon, round and round.

Because you're not plankton, you're nekton, self-propelled, going places to see the world, and thereby dissolving it like a delicate curlicue in acid.

We're as cross as micro-organisms can get which isn't very, we do tend to go with the flow, we're arrows on a diagram, round and round, human, round and round.







## The Voice of Scale I am the blown up writing you're too small to read. I am the micro-world you're too coarse to notice. I am the voice of scale. I am the dust on the filament, the friction in the joint. I am endurance and extent. I am the alpha, the omega and the lambda; the beginning, the end and the rate of expansion of all things. I am the collodion in the colonial photograph miniaturised for your parlour microscope. I am the immensity not only of the sky but of the vertiginous gap between immense and tiny; I am the nebula's terror when it thinks of the atom. I am the work in progress. I am the perspective lines, imperfectly erased, still visible. I am the stitching on the devotional sampler, the child's clumsy copperplate, the rap across the knuckles at Sunday school. I am the inexplicable comprehensibility of the infinitesimal. I am the voice of scale and I spake these words, and said: I am the Lord thy God: Thou shalt have none other gods but me. Amobile perfect of MC of Monte SPAKE THESE WORDS, AND SAID. I AM THE LORD THY GOD:

