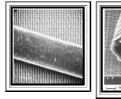
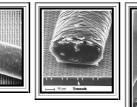
## **Particles on Chips**

Here you can see a collection of SEM pictures which not only illustrate graphically the "particle" problem in making chips, but also have a certain esthetical appeal

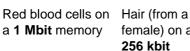
Click on the link for an enlarged view.











(large size)

Hair on a female) on a chip. - just to memory chip. show how Just one of the structure sizes an electrical little flakes of decrease. the hair would be enough to (large size) cover one memory cell.

(large size)

Here a metal 4Mbit memory particle, probably a tiny drop of **AI** that was burnt of by a discharge in a sputtering machine typical strand of and hit the Si as a solidified droplet . It of several individual was coated with AI strings with which was subsequently structured by etching. Four conducting lines are now short circuited.

(large size)



Mother nature is still ahead when it comes to small structures. Here we kill a chip. see spiderwebs on a 256 k DRAM. A spider silk consists diameters around 0.2 µm.

(large size)



Here is a particle of unknown nature. Whatever it is, it will

(large size)