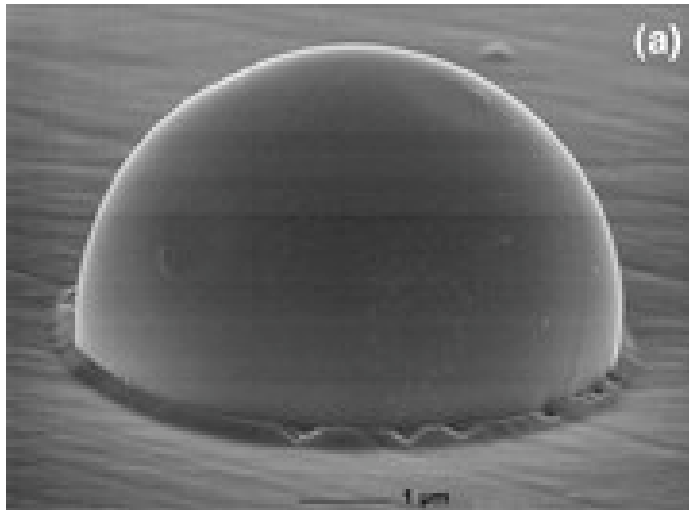
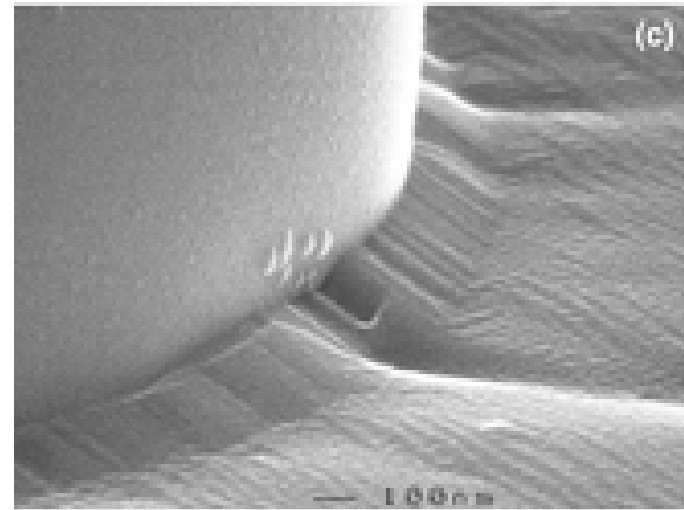


Millifluidics,
2. Contact with a solid

Droplet on a solid



Copper on saphir (at 1600°C)



D.Chatain

Zisman plot

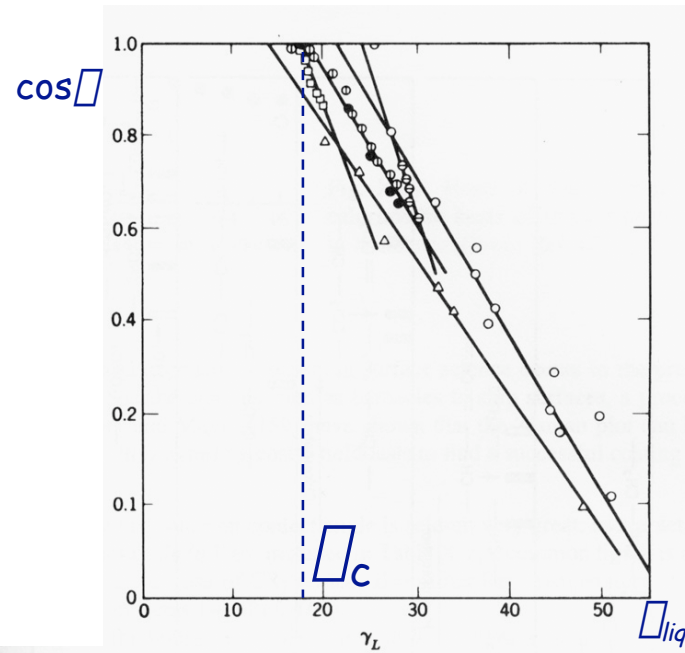


Fig. X-9. Zisman plots of the contact angles of various homologous series on Teflon; $\circ$, RX; $\oplus$, alkylbenzenes; ϕ , *n*-alkanes; $\bullet$, dialkyl ethers; $\square$, siloxanes; $\triangle$, miscellaneous polar liquids. (Data from Ref. 78.)

Precursor films (perfect wetting)

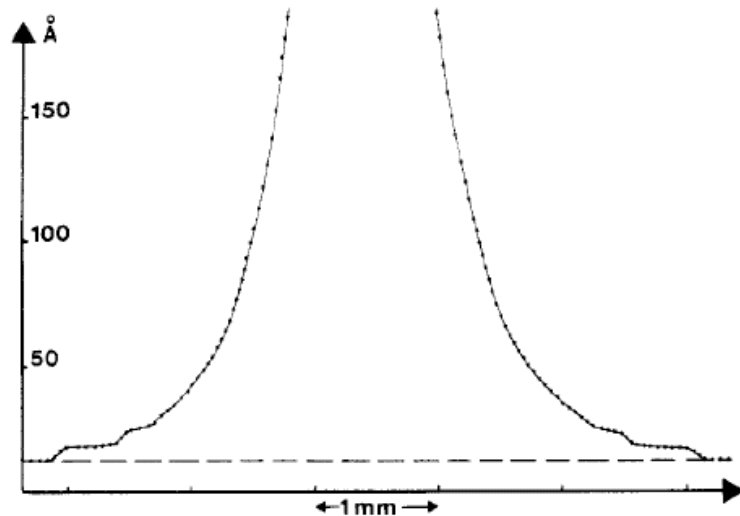


Figure 2. Ellipsometric profile of a PDMS drop on an oxide covered silicon wafer after 25 h. The maximum height of the drop is about $1 \mu\text{m}$.

small droplet

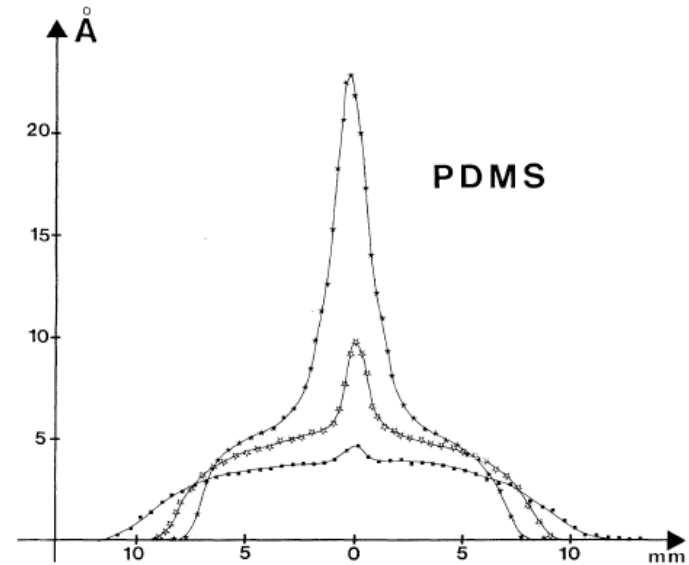
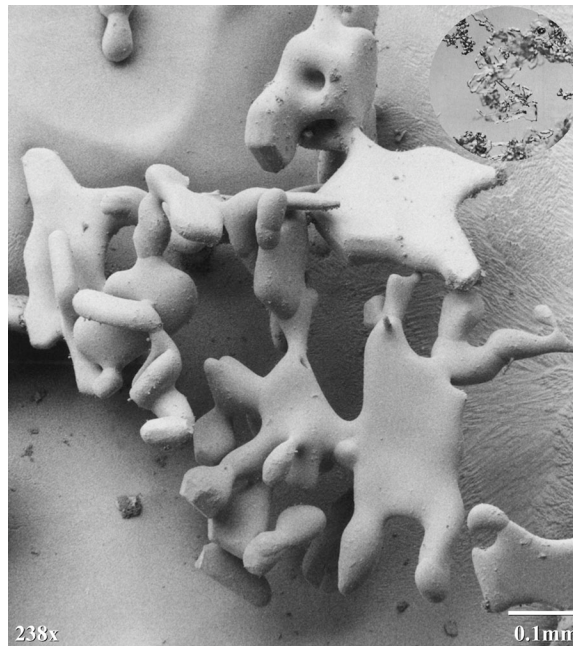


FIG. 1. Time evolution of the thickness profile of a $9 \times 10^{-5} \mu\text{l}$ PDMS drop. The times of measurement are 48, 96, and 144 h, respectively, after deposition of the drop.

very small droplet

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Surface fusion ?



Sintering in snow flakes

US Dep Agriculture