## An engineer's perspective of surface tension (by Spyros A. Kinnas, 2/1/12)



## A chain of H<sub>2</sub>O molecules linked by surface tension forces

An engineer's prespective of surface tension - Copyright: S.A. Kinnas, 2012

## The H<sub>2</sub>O free-surface as a <u>trampoline</u> for bugs!



For the molecules next to the glass surface, the surface tension force must be balanced by an equal and opposite force exerted by the glass. This force is responsible for the rise of the  $H_2O$  surface inside capillary tubes

> Surface tension forces are due to attractive forces on each  $H_2O$  molecule, exerted by its immediate neighbors on the free-surface.

 $\theta \approx 0^{\circ}$ 

Glass

Capillary Risel