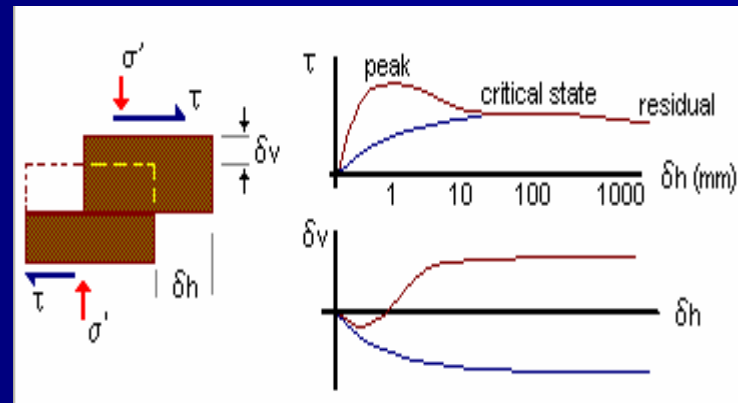
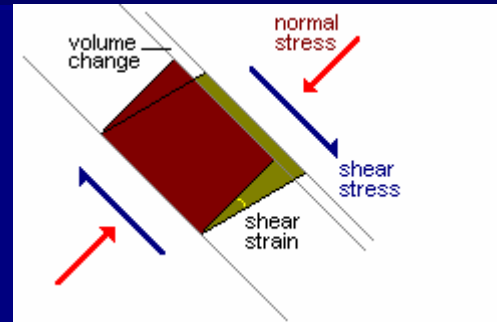
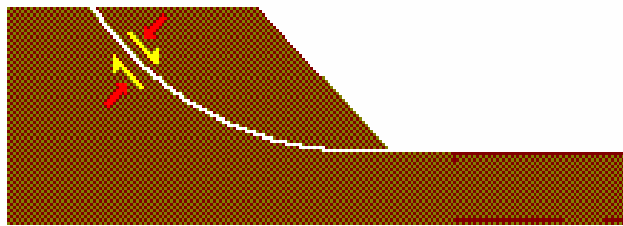
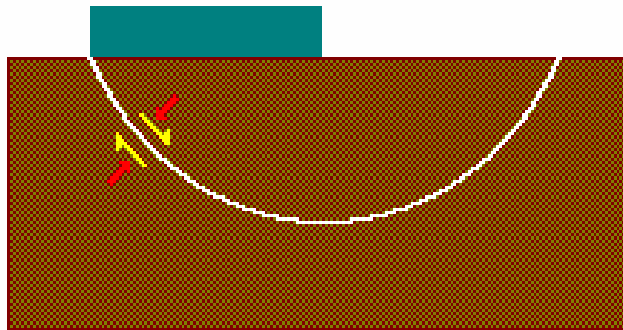


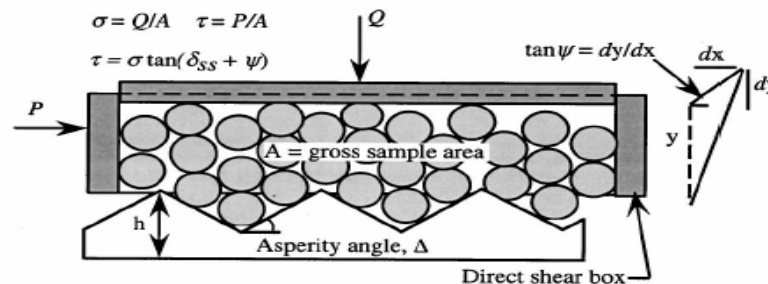
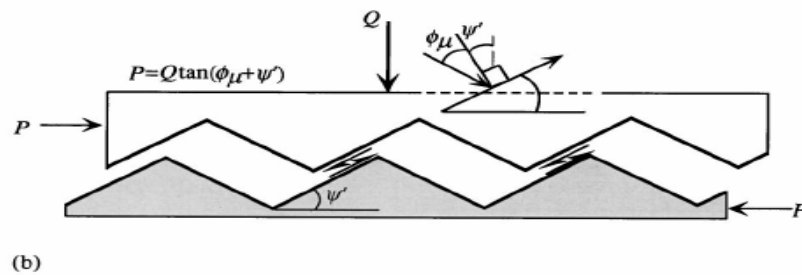
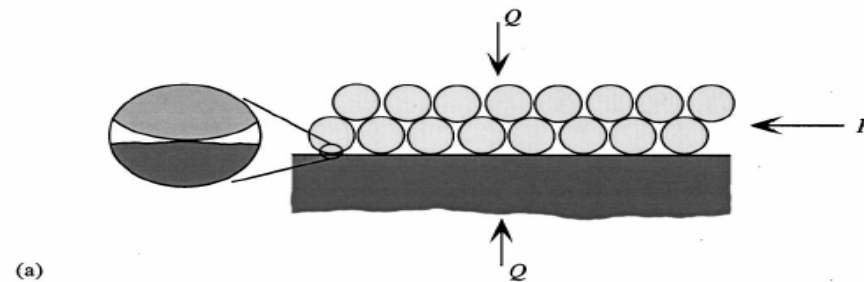
DIRECT SHEAR TEST



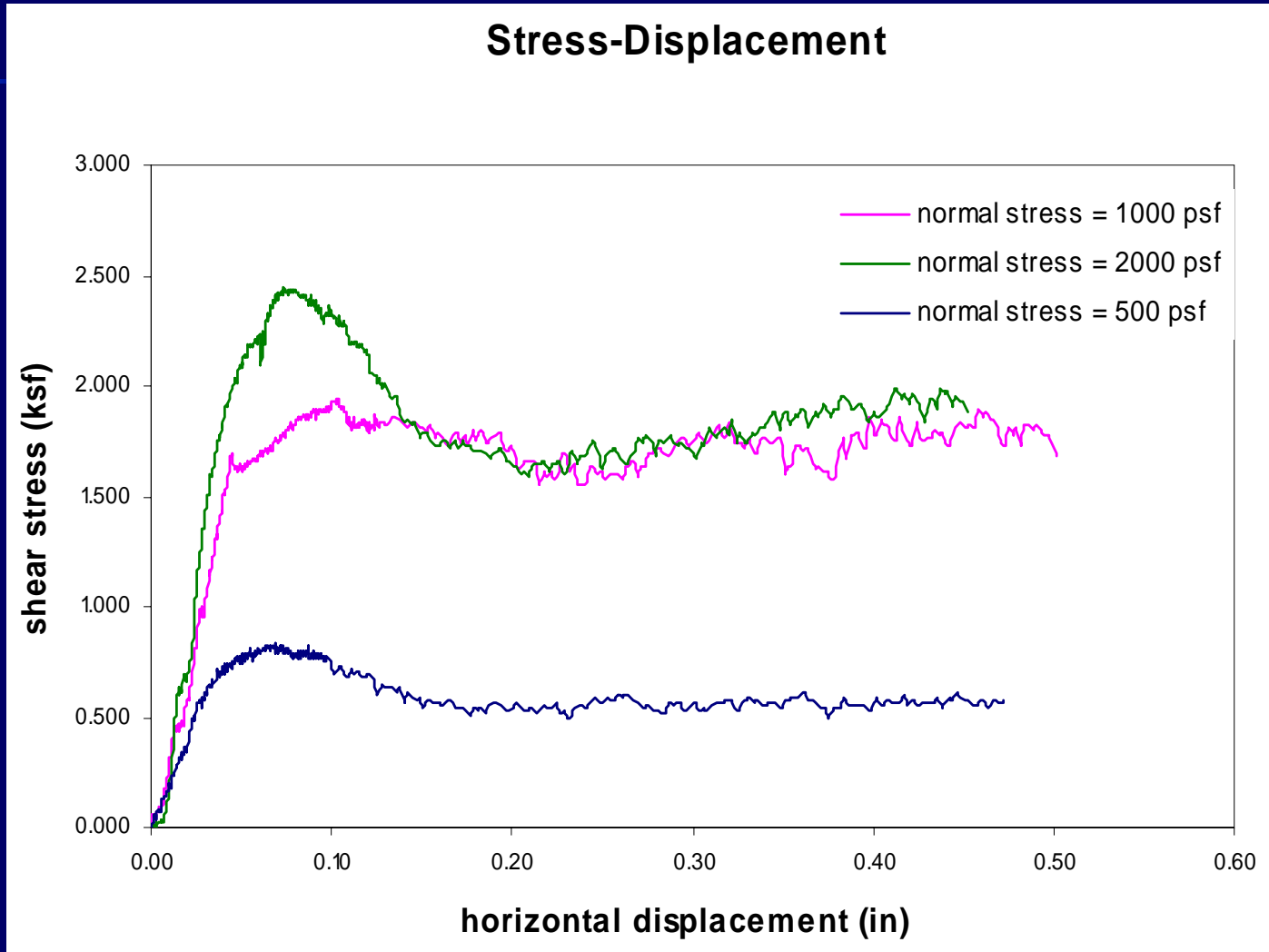
Applications of Direct shear strength parameters (c , ϕ)



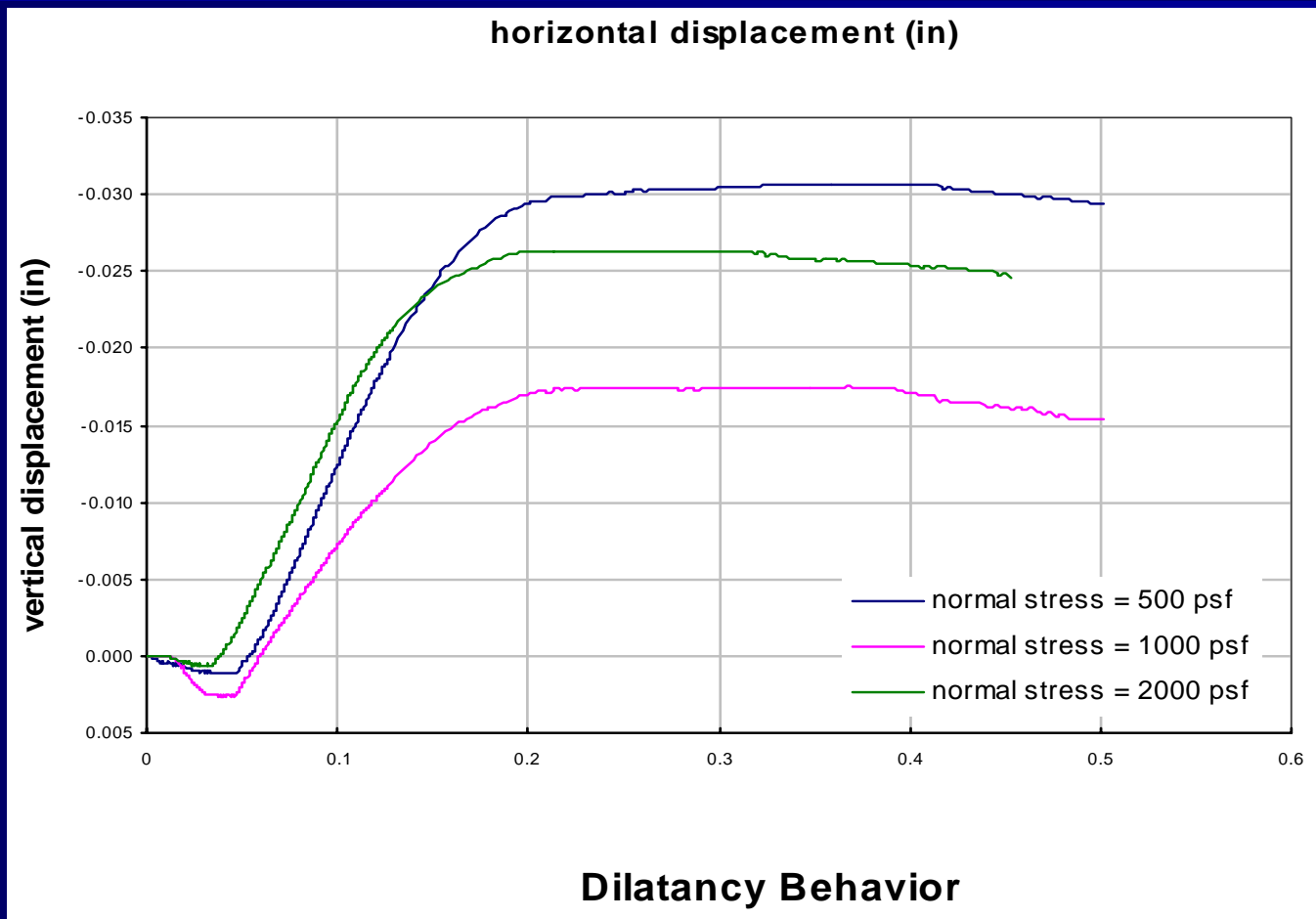
Concept of Dilatancy and Shear Resistance



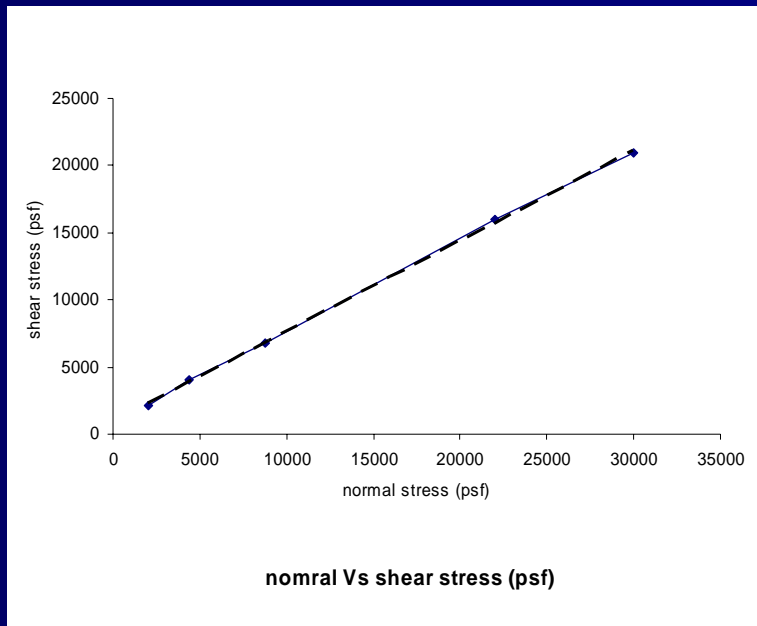
TYPICAL TEST RESULTS - SAND



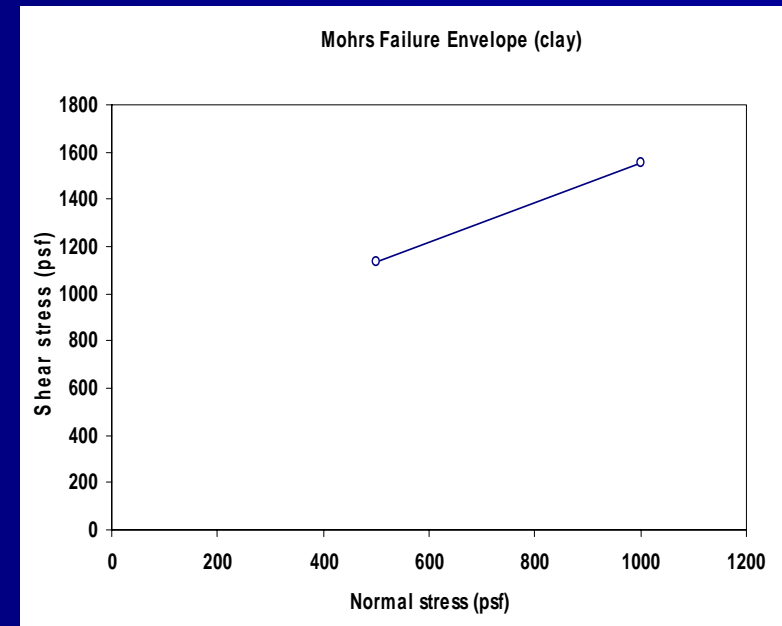
Dilatancy in dense sand



Mohr's Failure envelope using the peak stresses obtained from the previous plots

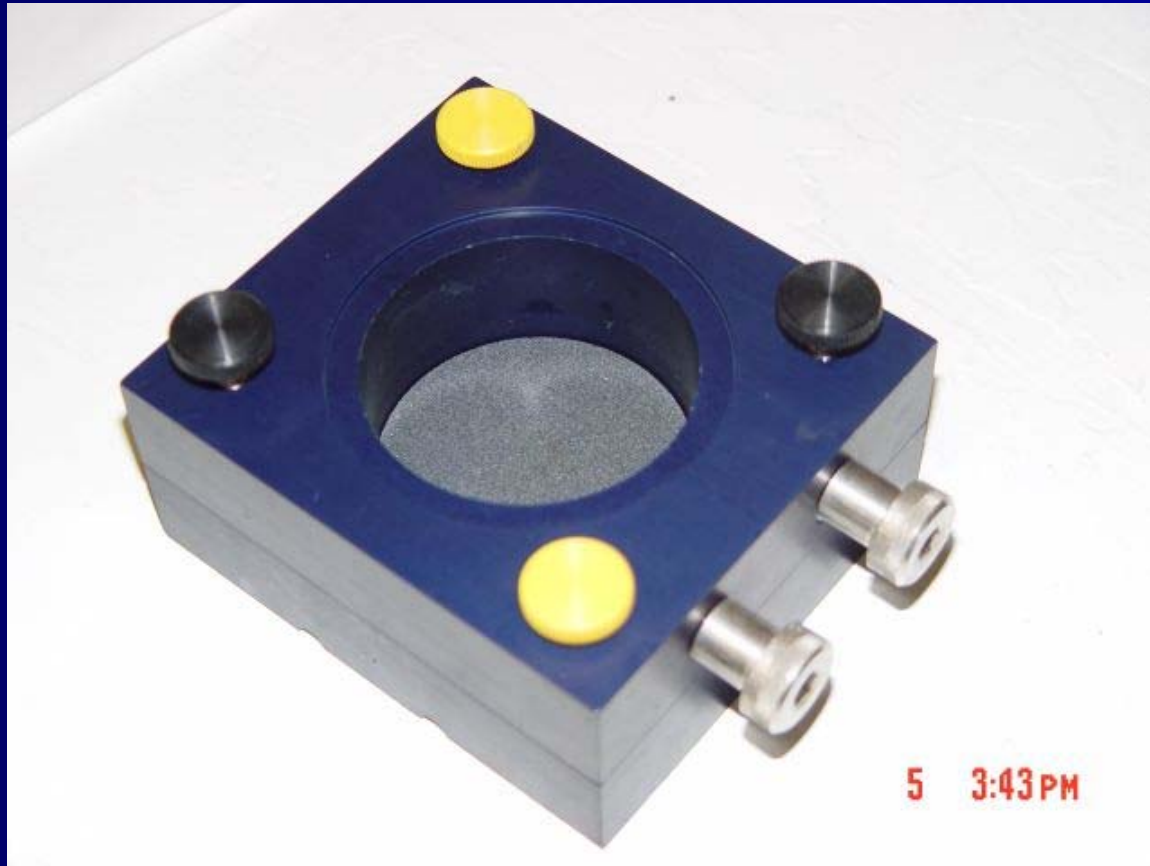


SANDS, $c=0$, $\phi \approx 40$ degrees

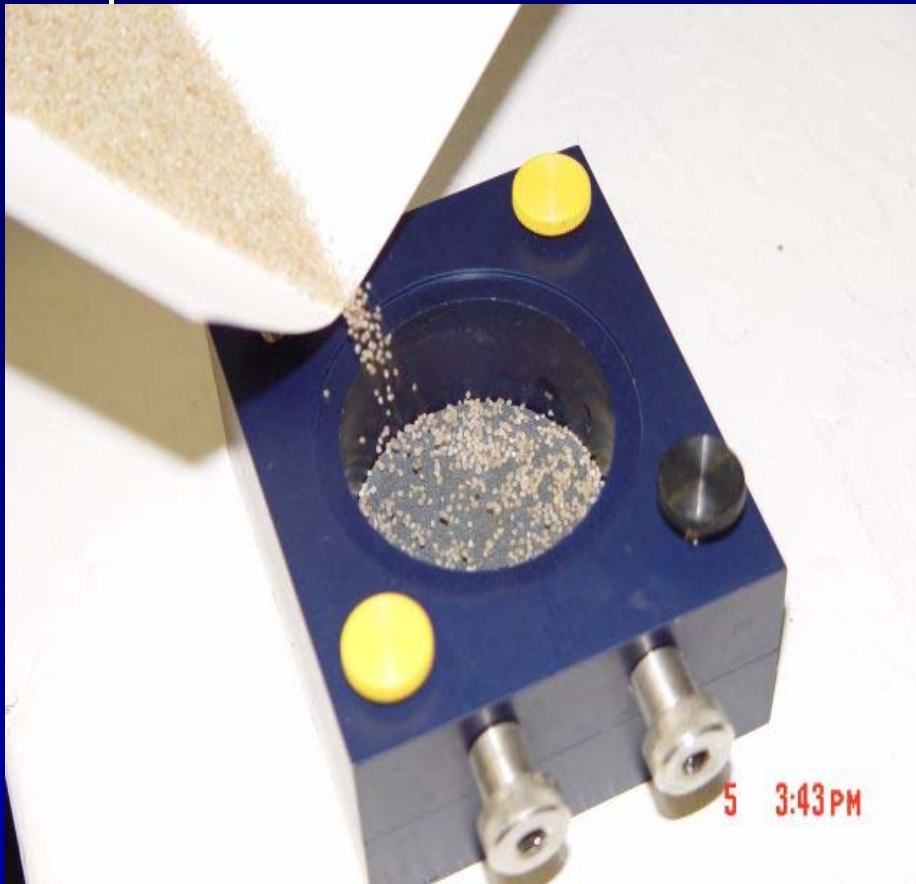


CLAYS, USUALLY $\phi \approx 0$, "c" exists

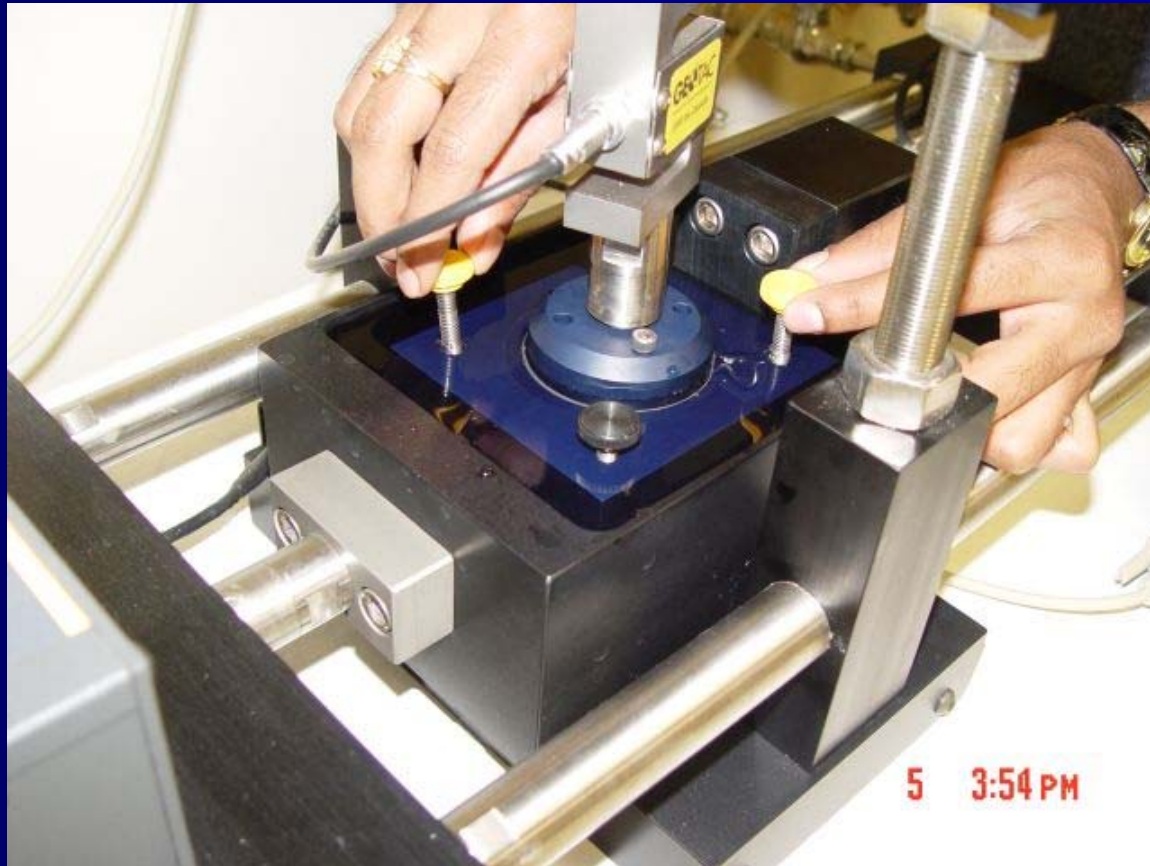
Shear box with alignment screws



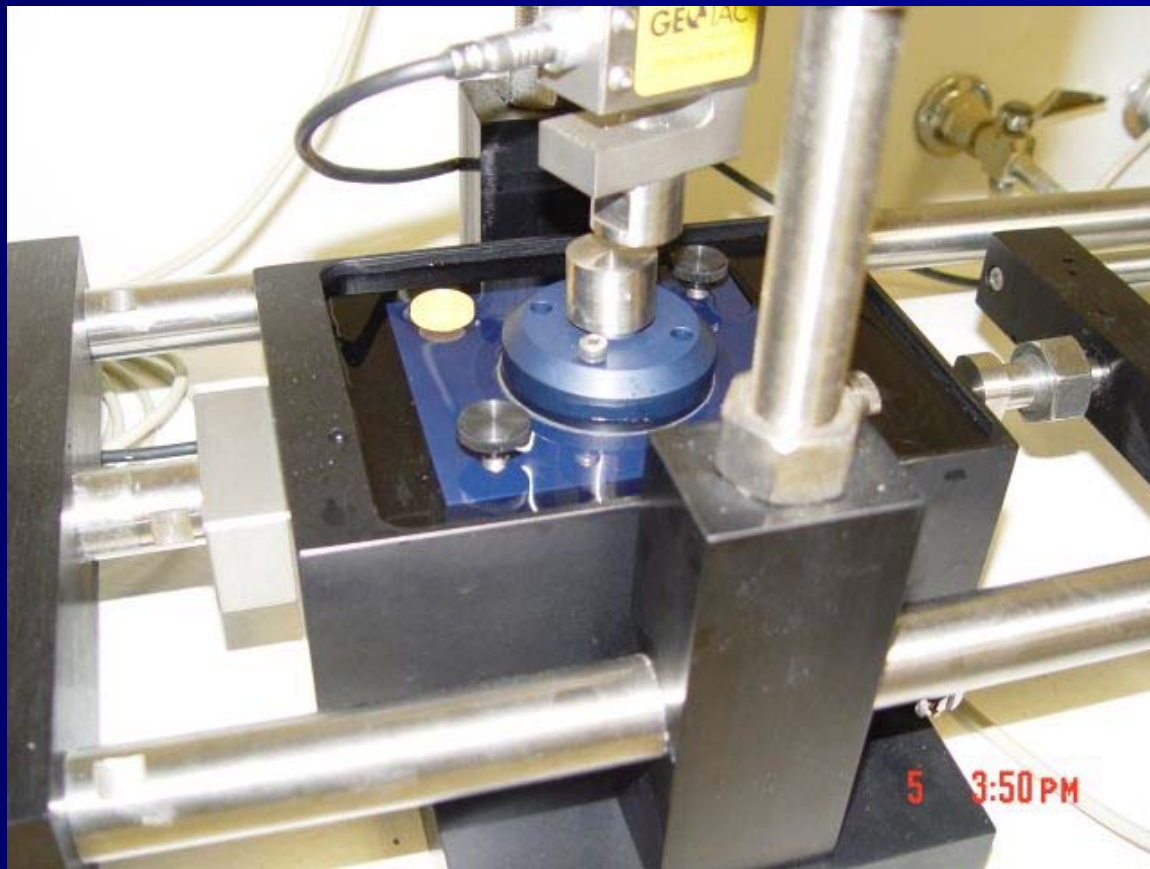
Sample preparation



Place the shear box under the load cell



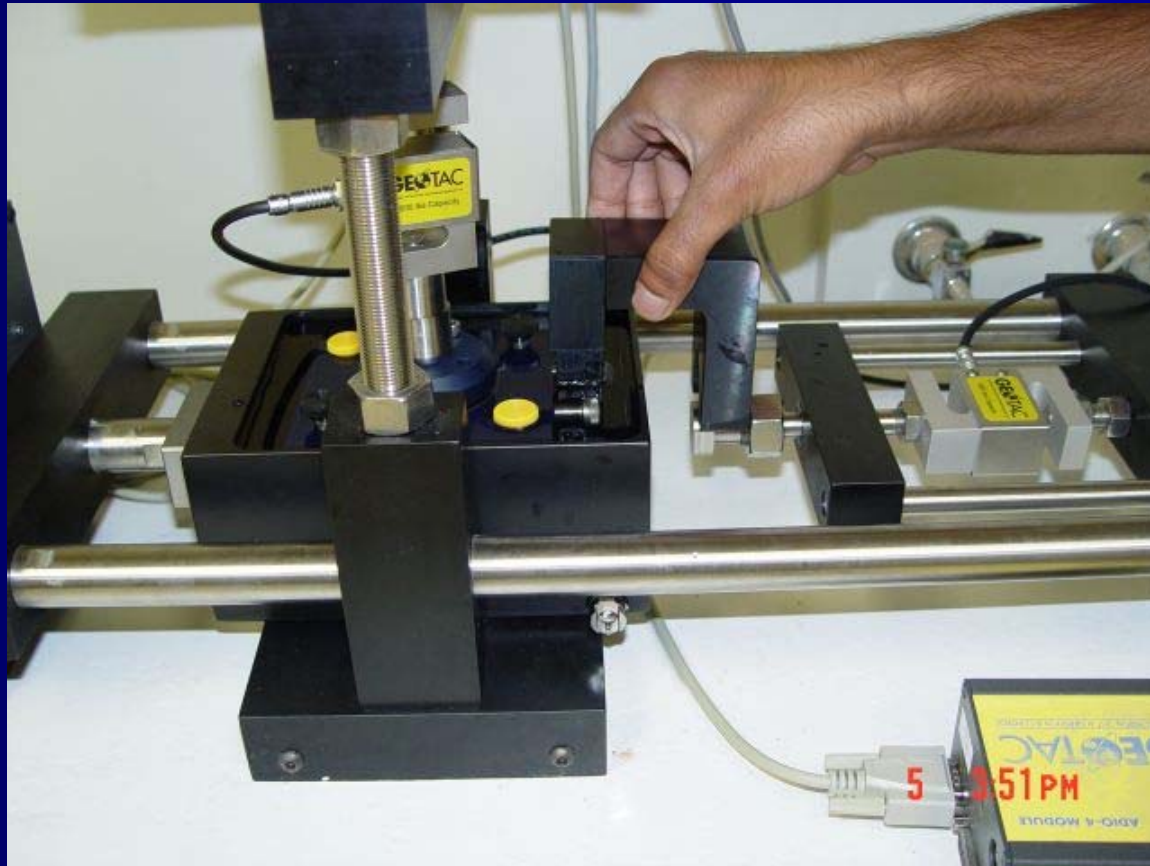
Align the load cell



Adjust the LVDT to complete contact



Clamp the shear box, so that only the lower half moves



**Run the DIGISHEAR
software and obtain
parameters c , ϕ**

