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**Thomas C Sideris\*** ([sideris@math.ucsb.edu](mailto:sideris@math.ucsb.edu)), Department of Mathematics, University of California, Santa Barbara, CA 93106. *Spreading of free boundaries in hydro- and elasto-dynamics*. Preliminary report.

We consider the initial free boundary value problem for certain classes of ideal fluids and elastic solids in bounded regions of space. It will be shown that the diameter of the region containing the material grows at least linearly in time, as long as the local solution exists and is regular. (Received September 13, 2009)