Hermite states are h-dependent families of functions associated with isotropic submanifolds of phase space. They generalize lagrangian distributions. They possess symbols, which are symplectic spinors, and there is a symbol calculus. I will describe the theory of semi-classical Hermite states and outline some applications. This is in part joint work with Victor Guillemin and Zuoqin Wang. (Received February 28, 2017)