1022-32-76 Emil J. Straube* (straube@math.tamu.edu), Department of Mathematics, Texas A&M University, College Station, TX 77843. Some questions concerning regularity properties of $\overline{\partial}$ and $\overline{\partial}_b$. Preliminary report.

I will discuss several questions in the regularity theory of $\overline{\partial}$ and $\overline{\partial}_b$, including compactness and hypoellipticity in *local* L^2 spaces, subellipticity and plurisubharmonic functions, regularity properties and Stein neighborhood bases of the closure. (Received September 09, 2006)