Title: Global regularity for the Bergman projection on forms

Abstract: Let  $\Omega$  be a smoothly bounded domain in  $\mathbb{C}^n$ . Suppose  $\Omega$  has a smooth defining function, such that the sum of any j eigenvalues of its complex Hessian is non-negative on  $\overline{\Omega}$ . We show that this condition implies global regularity of the Bergman projection on (0, q)-forms for  $j-1 \leq q \leq n$ . This, in some sense, extends the result by Boas and Straube, that global regularity of all Bergman projections follows, if  $\Omega$  admits a smooth defining function which is plurisubharmonic on the boundary of  $\Omega$ . However, our method of proof differs considerably. This is joint work with J.D. McNeal.