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**Phillip S Harrington\*** (psharrin@uark.edu), SCEN 336, 1 University of Arkansas, Fayetteville, AR 72704. *Sufficient Conditions for Global Regularity of the Bergman Projection.*

We say that the Bergman Projection is globally regular if it preserves the space of functions that are smooth up to the boundary (sometimes this is known as Condition R). One of the most fundamental sufficient conditions for global regularity is the existence of a defining function that is plurisubharmonic on the boundary. In this talk, we will look at two generalizations of this condition: the good vector field method of Boas and Straube and a condition on the Diederich-Fornaess Index introduced by Kohn. Our goal is to show that on a large class of examples the existence of a family of good vector fields implies that the Diederich-Fornaess Index is equal to one. (Received August 16, 2017)