

1077-92-2159      **Abdul-Aziz Yakubu\*** (ayakubu@howard.edu), 2441 6th Street NW, Washington, DC 20059, and  
**Nianpeng Li.** *Constant Proportion Harvest Policy, Predator Saturation and Mating Limitation  
Induced Allee Effects In Pacific Halibut and Atlantic Cod Fisheries.*

In this talk, we will examine the interactions between constant proportion harvesting policy, the classic deterministic Beverton-Holt and Ricker stock recruitment model forms, where the Allee effect in the fish population are induced by predator saturation and mating limitation mechanisms. We will show that the classic Beverton-Holt and Ricker models without the depensation are better fit to Gulf of Alaska Pacific halibut and Georges Bank Atlantic cod fisheries data. These models suggest that, under high fishing mortalities, both halibut and cod fisheries are vulnerable to steady decline to zero. (Received September 21, 2011)