1080-92-111 **Abdul-Aziz Yakubu*** (ayakubu@howard.edu), Department of mathematics, Howard University, Washington, DC 20059, and **Nianpeng Li**. *Predator Saturation and Mating Limitation Induced Allee Effects In Pacific Halibut and Atlantic Cod Fisheries.*

Fish population models under constant proportion harvest policy (CPP) can help assess performance of exploited fisheries that vary in levels of compensation with or without the Allee effect (depensation). In this talk, we will examine the interactions between CPP, the classic deterministic Beverton-Holt and Ricker stock recruitment model forms, where the Allee effects in the fish population are induced by predator saturation and mating limitation mechanisms. (Received January 18, 2012)