

Title: Wallops Island Science Training Program for Emergency Certified Teachers.

Abstract: The primary goal of this project is to provide emergency certified teachers with both the scientific and pedagogical skills needed to meet the state requirements for certification as a secondary science teacher. Such emergency certified teachers fall into two main groups: those who have a background in science, but little or no pedagogical knowledge and those who are already a certified teacher, but in another area and who are now seeking permanent certification in science. A secondary goal of the program is to improve the skill sets of current certified science teachers, especially in the marine sciences, with the added expectation that they will pass on this interest to their own students, by returning in subsequent years to the MSC. The project will take advantage of the new facilities at the MSC and will involve significant hands-on, residential experiences on-site at Wallops Island, Virginia, using marine science as a vehicle to teach integrated science to include: biology, chemistry, physics and earth science. The proposed course will provide teachers with authentic science experiences and at the end of the course each participant will leave with a project kit of classroom supplies and experiments ready for replication in their own class rooms.



Figure 1 – Dr. Kumar demonstrating the use of oceanography field equipments