



WEARABLE PHOTOCROMIC GRAPHENE/ ALGINATE RADIATION SENSOR FOR FUTURE SPACE APPLICATIONS



SCHOOL: ESCUELA SECUNDARIA DE LA UNIVERSIDAD DE PUERTO RICO

LOCATION: SAN JUAN, PR

FLIGHT PROVIDER: AEROSTAR

GRADES: HIGH SCHOOL

STUDENT EXPERIMENT DESCRIPTION

In hopes of future space or day-to-day applications, a qualitative radiation-receptive textile will be generated from Sargassum Algae Biomass. This intelligent textile will change color depending on the level of exposure to Ultraviolet Radiation due to its integrated photochromic pigment. Not only will this material provide a functional alternative to traditional sensors, but it will also remedy the overgrowth of algae on the island of Puerto Rico.