

Name: Lucy McWilliams

Year in Course: 2nd (Junior)

Topic: Stable Isotope Analysis of Sea Turtles

Mentor: Dr. John Logan, UMASS Division of Marine Fisheries; Dr. Tomo Eguchi, NOAA

Title: Multi-Tissue Stable Isotope Analysis of Green, Loggerhead, and Kemp's Ridley Sea Turtles in the Western North Atlantic Ocean

Bio:

Lucy McWilliams is a junior at Pawling High School who is a diligent student who has enrolled and excelled in most honors-level and AP courses offered. Additionally, she is a three season athlete and works very hard to balance her academics on top of athletics. In the fall and winter, she is captain of Pawling High School's varsity dance team. Lucy began playing lacrosse in second grade and coaches Pawling's Kindergarten- Second grade lacrosse team with her dad. She is a member of the French National Honor Society, National Honor Society, and Science National Honor Society where she helps tutor younger students, participates in various fundraisers, and volunteers her time for the benefit of her community. She is also a member of Pawling High School's Health and wellness committee where she helps promote a healthy lifestyle for families throughout her community.

Lucy's passion for Marine Biology began at a young age while spending her summers on the Long Island Sound where she discovered her love for the ocean. Through reading various peer reviewed journal articles, she realized that she wanted to research Sea Turtles. She was specifically interested in their migration patterns, diet, habitat, trophic position, and foraging ecology which can be researched using the Stable Isotope Analysis method. Lucy is using the stable isotope analysis to analyze multiple tissue samples of green, loggerhead, and kemp's ridley sea turtles at the northern extent of their migration in the Western North Atlantic Ocean.

