

Speaker: Dr. Nicholas Jones

Title: "Development of an Air/Water/Sediment Sensor for Ballast Tank Residuals"

Abstract: Ballast water tanks help maintain a consistent waterline for ships and other sea-faring vessels. The tank takes on and releases water to adjust for changes in the weight of the ship, due to the removal or addition of cargo. The water, however, can have animal species in it, which may be inadvertently transported to another area of the world, potentially where there are no natural predators. The residual water, therefore, needs to be treated to mitigate potential population overgrowth from a non-indigenous species (NIS). The development of an air/water/sediment sensor for measuring the amount of residual water and sediment will be discussed, along with the materials used for its development.