

# Science Made Public

All talks held at the WHOI Ocean Science Exhibit Center Auditorium,  
15 School Street, Woods Hole

*\* unless otherwise noted*



**AUGUST 6, 2013** AT 3:00 PM, EXHIBIT CENTER AUDITORIUM, 15 SCHOOL STREET

## *Plastics at SEA: The Effect of Plastic Pollution in Our Ocean* Emelia DeForce, Research Associate, Biology

Plastic is essential to our daily lives. Unfortunately, a portion of the plastic we use makes its way from our hands and into our ocean. On a global scale, we know little about how much plastic is in our ocean and even less about how this newly-introduced plastic is effecting the ocean ecosystem, from microscopic organisms that grow on the plastic to fish that ingest the plastic mistaking it for food. Learn about the research on plastic marine pollution in our ocean and the problems associated with it's presence in the marine environment.



**AUGUST 13, 2013** AT 3:00 PM, EXHIBIT CENTER AUDITORIUM, 15 SCHOOL STREET

## *Ocean Currents: Tools Used to Record and Monitor Deep Ocean Currents*

**Scott Worrilow, Group Operations Leader, Physical Oceanography**

Oceanographers have measured ocean currents for many years trying to better understand the motion of the ocean. Join us for an up close look at some of the tools used to measure the physical properties of the oceans, or how the oceans move. Learn about older instruments still in use today and new instrumentation made possible by advancements in design and measuring techniques.



**AUGUST 20, 2013** AT 3:00 PM, REDFIELD AUDITORIUM, 45 SCHOOL STREET

## *Shark Cam: Robots chase sharks where no else can go*

**Amy Kukulya, Senior Engineering Assistant,  
Applied Ocean Physics & Engineering**

How do scientists get a close up view of great white sharks? They build their own Shark Cam. Using an autonomous underwater robot outfitted with high-definition cameras, engineers at WHOI are able to track, follow and image the elusive great white shark off the coast of Cape Cod. Learn about how this new technology enables researchers to better understand these mysterious apex predators.



**AUGUST 27, 2013** AT 3:00 PM, REDFIELD AUDITORIUM, 45 SCHOOL STREET

## *The Silver Lining in the Mushroom Cloud: Using bomb radiocarbon to determine shark age* **Li Ling Hamady, Joint Program Student, Biology**

Sharks are charismatic, ecologically important, and difficult to study by observation alone. However shark vertebrae grow in layers like tree rings and function like lifetime chemical "flight data recorders." These chemical records are beginning to provide us with complementary information to the data collected by tagging & other observational studies. Learn how scientists are using the traces of radioactive particles from the atomic bomb testing era to determine shark ages and inform conservation and management practices.