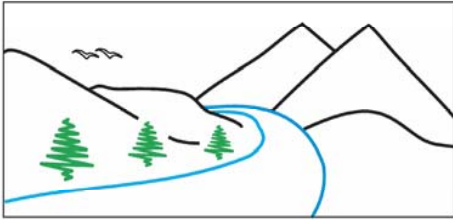


**NRESi**



"Our environment is our future"

# RESEARCH COLLOQUIUM SERIES



## Howard Freeland

Argo Co-Chairman  
Fisheries & Oceans Canada / Institute of  
Ocean Sciences



**Friday**  
**Sept 19, 2008**

**3:30 - 4:30**

**LECTURE THEATRE**

**7 - 212**

**LIGHT  
REFRESHMENTS  
SERVED AT 3:20 PM**

## Argo Watches the Oceans

Physical oceanography is presently undergoing a radical change with the installation of a global, real-time observing system called Argo that was initiated 9 years ago at the OceanObs-99 meeting in France.

This talk will outline how the Argo instrumentation works and will describe the evolution towards a global observing system that has been created entirely within the last 9 years. This observing system has required international cooperation within the scientific community at a level that is unprecedented in oceanography. The talk will also outline some results deriving from the global array.

Today a global observing system exists in the oceans of the world. Indeed, more ocean climate data will be gathered in the Southern Ocean in 2008 than has been gathered from the sum of all previous research missions to the Southern Ocean. So today we know at all times how the ocean is changing, how heat is being stored in the oceans and how it is being redistributed by ocean currents.

Nevertheless there are threats to the long-term survival of this program notwithstanding the enormous social benefits that will derive from its survival. Political decisions over the next 2 years will determine whether or not there is a potential for the long-term survival of the Argo array.