



PORTRAIT OF CAPTAIN LAWRENCE  
*by an unknown artist*

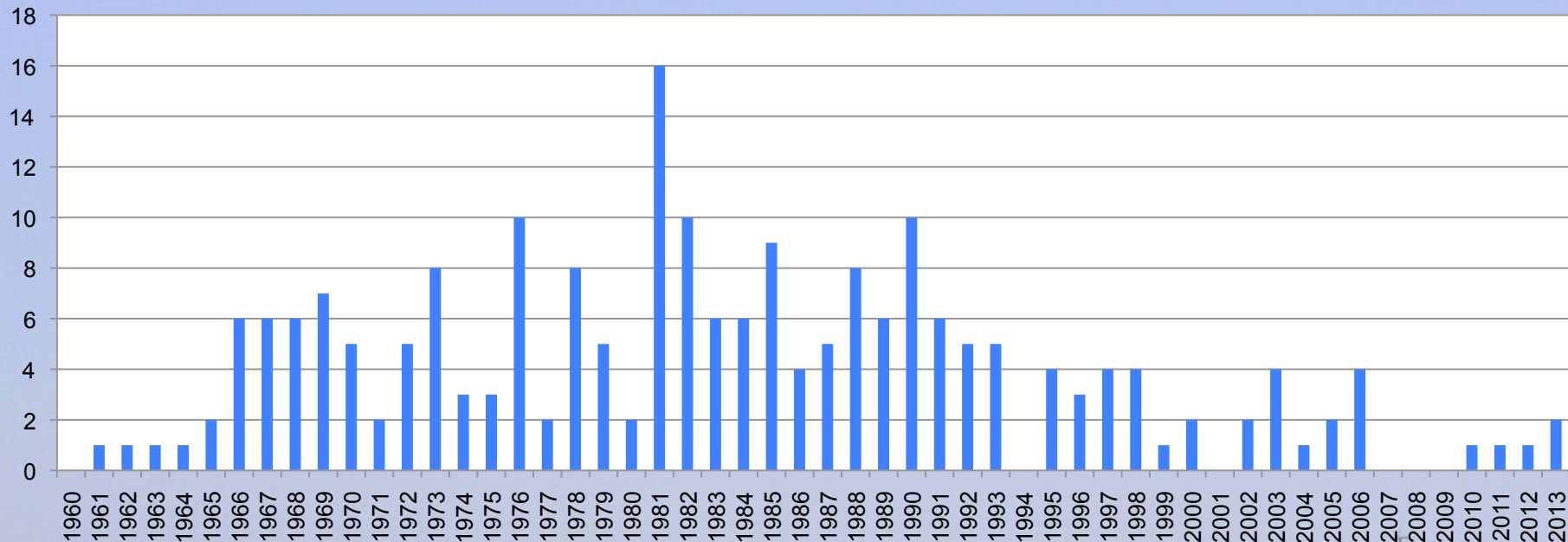
**“Don’t give  
up the ship”**

Capt. James Lawrence  
 USS Chesapeake  
 1<sup>st</sup> June 1813



# IRSO 2012

- **Workshop: Keeping the Research Vessel Fleet Relevant to Modern Science: the Issues Posed by Ageing Vessels**



- **12** new RVs in last 10Y (2004-2013)  
compared to **24** in previous 10Y (1994-2003)
- **36** new RVs in last 20Y (1994-2013)  
compared to **137** in previous 20Y (1974-1993)

SOURCE DATA – UNIVERSITY OF DELAWARE USA – COLLEGE OF MARINE STUDIES  
<http://www.researchvessels.org/qryshipinfo.asp>



# IRSO 2013

- Hosted by Fisheries and Marine Institute of Memorial University, St. John's, Newfoundland, Canada
- Workshop 29 Oct 2013
- Meeting 30 Oct – 1 Nov 2013





# IRSO 2013 Workshop

## “Operations in Harsh & Remote Environments”

- Polar Code Implementation
- Ageing workforce;
- Code of practice on AUV's;
- Remote medicine support & training; challenging environment.
- Vessel sharing opportunities;
- Designing vessels for reduced cost (through life cost analysis);
- Fuel consumption



# IRSO 2013 Meeting

- **Theme 1 - Research Vessel Builds, Modifications and Performance,**
  - New vessels
  - Modifications and upgrades
  - Fuel management
  - ICES209 (Underwater Radiated Noise – URN)
- **Theme 2 - Manning, Safety and Training**
  - STCW
  - MLC
  - Alcohol and drug policies
  - Medical standards and provision
  - Safety and security issues
- **Theme 3 - Scientific Technology**
  - AUVs and ROVs
  - Cables and winches
  - INMARTECH
  - Data management and handling
- **Theme 4 - Legal and Insurance**
  - Insurance
  - Admiralty Law in RV operations
  - IMO Regulations
  - Diplomatic Clearances
  - Polar Code and high latitudes
  - Environment
  - RV Code of Practice
  - Vessel Charter
- **Theme 5 - Cooperation and Outreach**
  - RVOC
  - OFEG
  - ERVO
  - POGO
  - Eurofleets

