History of the Submarine

First Submarine Design

- Drafted by William Borne in 1578
- Based on ballast tanks
- Never got past the drawing stage

First Oared Submersible

- Conceived and Built by Cornelis Drebbel
 - ◆ Dutch Inventor
 - ◆ Born in Alkmaar, Netherlands in 1572
- First to address the problem of air replenishment

Human Powered Submarine

- Built by David Bushnell in 1776
 - ◆ Called the Turtle
 - ◆ First submarine to dive, surface and be used in Naval combat



Holland VII and Holland VIII Submarines

- Introduced by John P. Holland in 1895
- Used petroleum engine for sufrace propulsion and electric engine for submerged operations
- Served as a blueprint for all the world's navies for submarine design

French Submarine Aigette

- First submarine built with a diesel engine for surface propulsion and electric engine for submerged operations
- **1904**