



**Troop 349 visits**

**Naval Surface Warfare Center**

**Carderock Division**

**(David Taylor Model Basin)**

**West Bethesda, Maryland**

**Thursday, 23 August 2012**

**1000-1300**

**Deadline for permission slip**

**Tues, 31 July 2012**

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# Naval Surface Warfare Center Carderock Division



## **Navy's Center of Excellence for Ships and Ship Systems**

The Carderock Division consists of approximately 3,200 scientists, engineers and support personnel working in more than 40 disciplines ranging from fundamental science to applied/in-service engineering. They are the Navy's experts for maritime technology. The Division houses world-class facilities and laboratories. Carderock's Headquarters is located in West Bethesda, Maryland.

The tour will last approximately 1 ½ - 2 hours and allow us access to several unique maritime R&D facilities. The motto of the Division is 'Where the Fleet Begins,' for Surface Ships, Submarines and Carriers; from ship forms and machinery to propellers it all starts at Carderock!

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As a major component and field activity of the Naval Sea Systems Command, the Carderock Division provides cradle-to-grave support for its technical products over an enormous range of scientific areas related to surface and undersea platforms. The Division addresses the full spectrum of applied maritime science and technology, from the theoretical and conceptual beginnings, through design and acquisition, to implementation and follow-on engineering. This includes all technical aspects of improving the performance of ships, submarines, military water craft, and unmanned vehicles, as well as research for military logistics systems. In addition, the Division is uniquely chartered by Congress to support America's maritime industry.

Some of the Navy's most highly classified ships began on the drawing boards of Carderock. Ships like the USS Sea Shadow, which uses RADAR avoidance technology and the USS Virginia, the Navy's most recent nuclear attack submarine. Highly innovative propellers that use rings and ducts were also developed at NSWC.



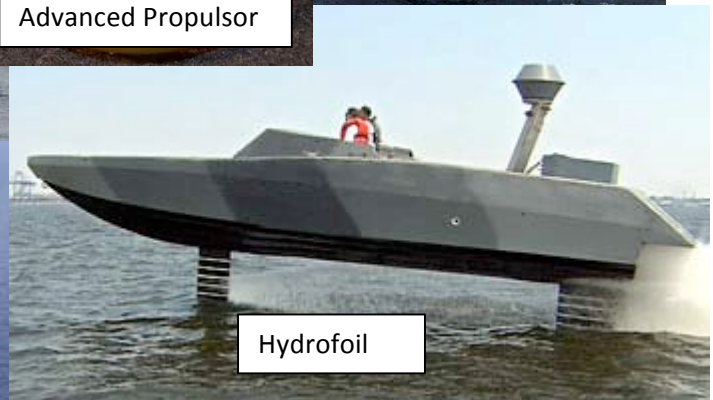
USS Sea Shadow



USS Virginia



Advanced Propulsor



Hydrofoil



At Sea Shock Testing

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## **"WHERE THE FLEET BEGINS"**

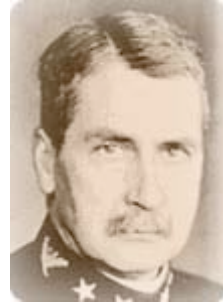
For over a century, the Carderock Division has been at the forefront of technologies vital to the success of the U.S. Navy and Maritime Industry. Since our component organizations were founded at the turn of the century, the Division has earned a distinguished reputation as the birthplace of superior naval technology. Their success is the culmination of efforts by the people, past and present.

In 1898, Captain David W. Taylor built the first Experimental Model Basin at the Washington Navy Yard. The Basin staff moved to Carderock, Maryland, just before World War II, where engineers today continue to design ships and test models using the precisely built towing tanks supplemented with computer simulation.

Admiral George W. Melville, Chief of the Bureau of Engineering in the 1890's, fought for an engine experiment station to build the machines to power the 20th Century Navy. Implementing his dream, researchers designed and tested engines and fuels that drove the ships of World War I and II at the Engineering Experiment Station at Annapolis. In 1967, the Annapolis and Carderock institutions merged, and their work saw action in the Vietnam war.

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**Rear Admiral David W. Taylor**

Rear Admiral **David Watson Taylor**, USN (4 March 1864 - 28 July 1940) was a naval architect and engineer of the United States Navy. He served during World War I as Chief Constructor of the Navy, and Chief of the Bureau of Construction and Repair. Taylor is best known as the man who constructed the first experimental towing tank ever built in the United States.



**Rear Admiral George W. Melville**

Rear Admiral **George Wallace Melville**, USN (10 January 1841 - 17 March 1912) was an engineer of the United States Navy. He served with distinction during the Civil War and eventually became chief of the Bureau of Steam Engineering. Melville is best known for his Arctic explorations and his mechanical and engineering talents.

<i><b>This is a proposed schedule.</b></i>		
Aug, 23 2012	<b>Time</b>	<b>Event</b>
<b>THURS</b>	<b>09:00 AM</b>	<b>Meet at American Legion</b>
	09:10 AM	Depart American Legion
	09:30 AM	Arrive NSWC, Carderock Division Visitor Center/Security Check-In
	09:45 AM	Walk to Bldg 2 –Main Building
	10:00 AM	Tour Begins
	12:00 AM	Tour ends; walk to Cafeteria
		Lunch, as desired
	1:00 PM	Depart NSWC, Carderock Division
	1:30 PM	Return to American Legion
		<b>Scouts:</b> <ul style="list-style-type: none"> <li>- <b>wear Class A uniform</b></li> <li>- <b>bring \$10 for food or brown bag</b></li> </ul>

## **Restrictions and Precautions**

Please observe the following while at the West Bethesda site:

- **No cameras allowed**
- **Do not enter restricted areas**
- **Display your visitor badge at all times**
- **Adult visitors are required to supply SSN (see John Fraas)**

**Event:** Tour of Naval Surface Warfare Center, Carderock Division

**Location:** West Bethesda, MD

**Tour Date:** Thursday, 23 August 2012

**As the parent or legal guardian of** (full name): \_\_\_\_\_

- I give my permission for him to participate in this outing with Troop 349.
- My Scout knows to wear his uniform his Class A uniform.
- Parent(s) planning to attend: \_\_\_\_\_ No. seat belts available for Scouts: \_\_\_\_\_
- Bring approx \$10 to buy food

I give permission to the leaders of Troop 349 to render first aid. In the event of emergency, I give permission to the physician selected by adult leader, to hospitalize, order anesthesia, order injection, or secure other medical treatment, as s/he determines to be appropriate. I further agree to hold Troop 349 and its leaders blameless for any mishaps that may occur during this outing, except for clear acts of negligence or non-adherence to BSA policies and guidelines.

**In case of emergency,** I can be reached by phone at: \_\_\_\_\_,

Or: \_\_\_\_\_.

**Medical Insurance company:** \_\_\_\_\_

**Policy number:** \_\_\_\_\_

If I cannot be reached, contact: \_\_\_\_\_

Phone: \_\_\_\_\_

My son:  Has the following **medical condition(s)** that adult leaders must be aware:

\_\_\_\_\_.

- Has no medical condition.
- Requires the following **medication(s)** that adult leaders must supervise and assist in administering: \_\_\_\_\_.
- Takes no medication

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

(Parent or Guardian)

***Return this Permission Slip to John Fraas by Tues, 31 July.***

**[MCFRAAS@HOTMAIL.COM](mailto:MCFRAAS@HOTMAIL.COM)**

***6136 9<sup>TH</sup> RD N***

***ARLINGTON, VA 22205***

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