



NEWSLETTER

VOLUME 19 NO. 2 SUMMER 2009



The original propeller from USS Monitor

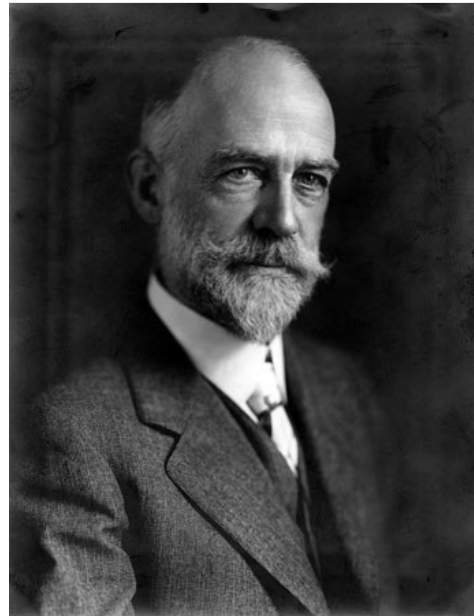
From time to time an inventor comes along who transforms an entire industry, forever changing its principal product and stimulating the development of technology. Such a man was Captain John Ericsson. His research and innovations in propeller design, and his inventions, notably incorporated in the iron-clad Civil War battleship USS Monitor, marked a turning point in shipbuilding and transformed the maritime industry. He is perhaps, best known for the USS Monitor and the extraordinary feat of its production in 100 days. As an engineer and inventor of the 19th century, his research and inventions have retained relevance over time and continues to inspire scientists and engineers.

The transforming significance of a single invention and its importance was highlighted by the first colloquium of the year sponsored by JESNY – a discussion of the Ericsson screw propeller. It was invented for the practical purpose of improving the controlled movement of ships. Over time the accumulated knowledge gained from shipping has been gathered, tested, recorded thus easing knowledge transfer. “Propeller Theory”, a body of knowledge beginning largely with Ericsson’s work has developed.

Leif G. Brisfjord
President, John Ericsson Society, New York

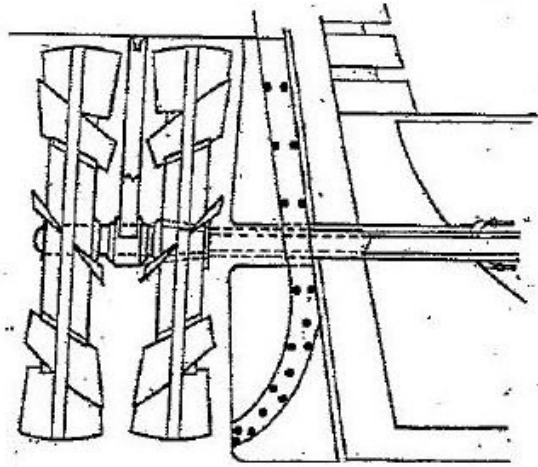
“As early as the Seventeenth Century the possibility of developing a propulsive thrust by the use of a submerged helicoidal, or screw, propeller, had been vaguely recognized, and during the following, or Eighteenth Century, the same idea had been brought forward. It had been viewed in this connection, however, merely as a curiosity, and led to no immediate results. These various attempts to introduce the screw-propeller seem curiously enough to have had no lasting result...

Regarding Ericsson's relation to the successful introduction of the screw-propeller, it is a fact that in 1833-35 it was not recognized as an accepted mode of propulsion. The paddle wheel was the recognized instrument ... A few years later the screw propeller had gained a permanent and definite place in the practice of the day, a place which has continued to grow in importance until its earlier rival, the paddle-wheel, is almost on the brink of relegation to museums of antiquities.”

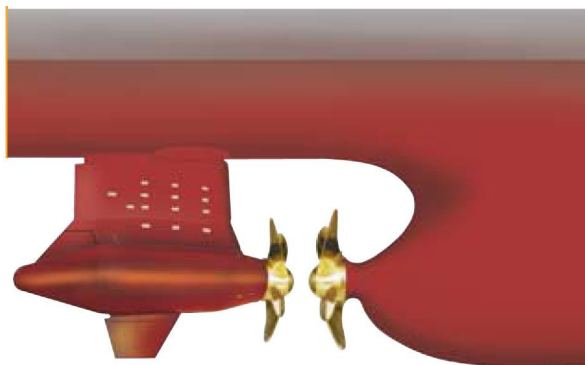


*Excerpt from “NAVIES OF WAR AND COMMERCE”
by W.F. Durand, 1859 – 1958*

The History and Development of the Marine Screw Propeller, July 30, 2009: An Illustrated Presentation



John Ericsson's Reverse Screw Propeller, 1836



A modern Volvo Penta/ABB Propeller design for large Cruise Ships, 2009

An illustrated presentation was arranged by the John Ericsson Society, New York on Thursday, July 30, 2009. The main speaker was Oddbjörn Hallenstved, engineer and inventor with more than forty years of experience in the design and production of ships' engines and propeller systems for Volvo Penta in Sweden. He is a Lifetime Member of JESNY.

Leif G. Brisfjord gave a brief overview of John Ericsson's induction into the Inventors Hall of Fame in Akron, Ohio based on Patent 588 for the invention of the screw propeller, "an invention that forever changed the maritime industry". He then introduced the speakers.



Oddbjörn Hallenstved

Oddbjörn Hallenstved illustrated the basic contribution of Ericsson, and the adaptations made over time. Of special interest was his discussion of the major changes and expansion in the knowledge base of the profession, "propeller theory" – the accumulation, testing and transmission of a body of knowledge for producing the propulsion systems of ships. Oddbjörn closed his presentation with a video from Volvo Penta regarding Inboard Performance System (IPS).

Oddbjörn Hallenstved is inventor as well as engineer. He holds personal patents for inventions and, in 2005, he was a member of a team of six persons from Volvo Penta and Volvo Powertrain that won the Volvo Technology Award for Volvo Penta Inboard Performance System (IPS), a company – wide recognition. Volvo Penta produces engines and propulsion systems for boats, large and small.



Louis Hills

JESNY member, **Louis Hills** of Concord, Massachusetts, an expert builder of Ericsson propeller and ship

models, discussed and demonstrated his most recent model propellers.



Propeller Model, Made by Louis Hills

The Presentation was well received. It attracted an audience of engineers, information technology specialists and Ericsson model builders. The informal discussion following the presentation continued late into the evening.



Participants

From the Marine Screw Propeller to Wind Power

John Ericsson invented the Screw Propeller for moving vessels through water faster. It also became the basis for propulsion systems of submarines. The Wright brothers made use of his concept in designing airplane propellers. His pioneering propeller design has had an impact on development of turbines for generating wind power. A company, Smith's Electrical Contracting, Kauai, Hawaii is demonstrating the "Energy Ball", a propeller of Dutch design for generating wind power. On an evolutionary track, it goes back to John Ericsson's early propeller design. The "Energy Ball" is a

wind turbine with a difference – it will not harm birds and it is "whisper quiet". Because of the way it spins, birds view it as a solid object and avoid it.



The Wind Power Energy Ball at Kauai, Hawaii

Commemoration of the 206th Birthday of Captain John Ericsson, John Ericsson Statue. Battery Park, New York: Friday, July 31, 2009 at 6:00 pm

On July the 31st, this year, John Ericsson's 206th birthday was commemorated in many places in USA and Sweden. John Ericsson Society, New York received greetings from the sponsoring organizations and sent greetings to them in return.

This memorial event sponsored by the John Ericsson Society, New York and the Greenpoint Monitor Museum was held, as announced, but with weather related changes.



John Ericsson Statue, Battery Park, July 31, 2009

For the first time in many years there was rain, wind, lightning at the time appointed for the ceremony. – In

spite of the inclement weather the placement of the wreath was held as is customary, but the remaining program took place in a reserved dining room of the Roger Smith Hotel. It was both an occasion for thanking Oddbjörn Hallenstved for his contribution to the JESNY program, and for extending welcome to new members. Members and guests made remarks and told stories related to John Ericsson in general and specifically about propellers.



Dinner at the Roger Smith Hotel

Leif Brisfjord used an iPod, to show a YouTube presentation of "The Battle at Hampton Roads" with music "Oh! Give us a Navy of Iron". Then he showed his earlier presentation "John Ericsson's Birthday" including "Ack Värmeland du sköna / Oh Värmland Thou Art Beautiful" - with song and music by Jussi Björling from a film about John Ericsson, "Segraren vid Hampton Roads / The Victor at Hampton Roads" that was recorded in Sweden 1937.



Leif Brisfjord gives an iPod Presentation



Street Performers in Battery Park

On August 1st, Inez and Leif Brisfjord made a trip to Battery Park to see what the storm had wrought. It revealed that the wreath remained fresh, bright and in place. On the sunny afternoon, many passers-by paused to view the Ericsson Statue and wreath – some took photographs. A group of Street Performers gave an extraordinary show in the Park near the John Ericsson Statue. The show was recorded. To view it, use the link on the John Ericsson Society Homepage.

Creativity Contest, June 2009

It has become a custom for JESNY to sponsor an annual Creativity Contest at John Ericsson School JHS 126 Brooklyn. This year the first place winner was a member of the graduating class so he received his award during the general Graduation Awards Ceremony in the presence of Janice and George Weinmann representing JESNY. Three additional prizes were presented at later time.



Contestants with George and Janice Weinmann

Developments in Battery Park, NY: Heroes Walk



**John Ericsson Statue in Future Battery Park
Conceptual Rendering by sven**

Courtesy of the Battery Conservancy.
<http://www.thebattery.org>

The John Ericsson Statue in Battery Park along with the other monuments and sculptures in the Park's interior are slated for relocation to a landscaped perimeter setting that will be known as the Heroes Walk. This relocation dates to the master plan of 1986 that is now being implemented in several construction phases. Jonathan Kuhn, Director of Art and Antiquities of City of New York, Parks and Recreation is expected to arrange a meeting with JESNY and the Battery Conservancy for a thorough presentation on the plans in Fall, 2009.

In 1997, the Citywide Monuments Conservation Program was launched with two goals – to augment through private investment the City's care of its public art collection and to train the next generation of conservators. To avoid cycles of renovation and decline there is regular follow up maintenance of previously conserved statuary. Two Ericsson Monuments are eligible for this program – The John Ericsson Statue in Battery Park and a sculpture in McGolrick Park, Brooklyn.

The USS Monitor Monument erected in McGolrick Park, Brooklyn, in 1938 to commemorate the Battle of the Monitor and Merrimac, March 9, 1862, and in memory of the men of the Monitor and its designer, John Ericsson. It is the work of the Sculptor, Antonio De Felippo. The monument represents a bronze figure of a sailor straining at a hawser.



USS Monitor Monument, McGolrick Park, Brooklyn

You are Invited to a Special Event

Join the fun in the Delaware Valley October 22-25. Register for the conference. It includes a full day of scholarly lectures as well as study-tours within Philadelphia and the Delaware Valley. Some of the significant sites in the Delaware Valley are featured on SCA's homepage slide show featuring photos by Kenneth S. Peterson, Swedish Colonial Society. This joint event is a partnership between the Swedish Council of America, the American Swedish Historic7al Museum, the New Sweden History Conference and the Swedish Colonial Society. The celebration of the Swedish Colonial Society's Centennial Jubilee will be held in conjunction with this joint conference.



<http://www.swedishcouncil.org>

JOIN OUR GROUP ON FACEBOOK



What is this on JESNY's Website?

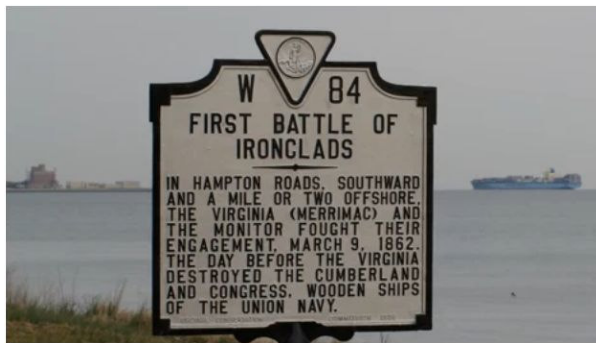
"Facebook's mission is to give people the power to share and make the world more open and connected. Millions of people use Facebook everyday to keep up with friends, upload an unlimited number of photos, share links and videos, and learn more about the people they meet."

We have established one Group and one Page on Facebook for John Ericsson Society, New York. You can "Join our Group on Facebook" or "Become a Fan" by clicking on one of the links. If you are not already a member of Facebook, you can Sign up for Facebook, using one of the links. Welcome to Facebook.

JESNY on YouTube



iPod Touch



The Mariner's Museum, USS Monitor Center held a competition for a presentation of the story of the USS Monitor, the USS Virginia or the Battle at Hampton Roads – a presentation based on fact. Leif Brisfjord won First Prize, an iPod for his presentation: **The Battle at Hampton Roads**. You can view the presentation on <http://www.johnericsson.org> The presentation can be downloaded from YouTube and converted for iPod.

Important Memorial Events

- **March 9th, Monitor Day** - Annual Celebration.
- **July 31st, John Ericsson's Birthday** – Annual Celebration at the John Ericsson Statue in Battery Park, New York.
- **November 23rd, John Ericsson's arrival in the US** – Annual Celebration.

Membership

The John Ericsson Society, New York offers members the privilege of participating in the use of 21st Century technology and methods to gather and provide access to evidence of the achievements of Captain John Ericsson, thus preserving for future generations an accurate record of his historic contributions and promoting the advancement of engineering science.

Membership Dues

Payment for annual membership is due January 31st each year. Kindly send payment (\$20/year or \$200/one-time life membership).

Make your check to "John Ericsson Society" and mail to **John Ericsson Society Treasurer:**

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