

Faculty of Maritime Studies on Festival of Science

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The Festival of Science was held in 18 Croatian cities on April 18-24, 2016. The city of Split and its University were among the cities and institutions that decided to promote the world of science to the people. *The Faculty of Maritime Studies* was presented by two lectures:

- *Ship on the Waves* in the Library Marko Marulić
- *The History of the Croatian Shipbuilding Industry* on the school sailing ship *Queen of the Sea*.

Those were two lectures closely related to teaching, research and practical work at the *Faculty of Maritime Studies*

in Split. *The Nautical Department* of the *Faculty*, especially ship construction and stability lecturers, dealt with this topic.

Lecture *Ship on the Waves* was presented at *Marko Marulić* library. This topic was presented from two viewpoints. One was the seafarers' viewpoint and it dealt with ship maneuvering on heavy seas and in storms. That was of great interest to the visitors because it represented how a ship fights against huge waves and all the procedures that have to be followed for safe navigation.

The other viewpoint was the shipbuilders' and represented all the calculations of a ship's motions that will occur on the heavy



Figure 1.
Demonstrating waves to the pupils with an additional prop.

seas. That was presented as a mathematical problem and was very interesting to the visitors enthusiastic about mathematical solutions of natural phenomena.

As a large part of the visitors at the festival were children and elementary school pupils, part of the lecture was presentation of the basic laws of physics. As an easy way to explain the phenomena of the lifting force, weight force, mass and center of gravity and metacentric height, a lot of props and ship models were used. In this way, the youngest visitors could easily learn the difference in heavy sea motions between passenger ships and ships for the transport of cargo.

The lecture *The History of the Croatian shipbuilding industry* was very interesting because it was held in the saloon of the school sailing ship *Kraljica mora*, which had just returned to the port of Split with a group of students who had been on their sailing practice. All the students were from the *Nautical Department* of the *Faculty of Maritime Studies*. Just a few minutes after berthing the ship, visitors came on board and the presentation started.

An overview of the development of large shipyards on

the Croatian coast of the Adriatic was an interesting topic. This presentation is a modification of the lecture that Professor Ivo Senjanovic presented at the *Croatian Academy of Sciences and Arts*. When the presentation touched on the past few years of shipbuilding and Brodosplit shipyard, visitors had many questions and comments.

After the presentation, the Master of the ship guided the visitors on a tour of the ship and prepared them for the sailing trip to the island Šolta where was planned to present life and work of the famous Croatian writer Marko Marulić.

The *Festival of Science* is an opportunity for the popularization of science and a way to arouse interest in elementary and high school students for specific topics. The *Faculty of Maritime Studies* will continue to participate in this and similar festivals and events.

More about the *Festival of Science* at <http://www.festivalznanosti.hr/2016/>



Figure 2.

Visitors on the school sailing ship *Kraljica mora*.