

## Prof. Pentscho PENTSCHEW Honorary Session

---



An honorary session dedicated to Professor Pentscho Pentschew from Rostock University is included in the program of the 18th IMAM Congress. His 40 years of teaching and research activities are closely related to the development of Varna Technical University.

He started his study at the Technical University of Varna, specialty "Shipbuilding" in 1964. From 1967 to 1970 he continued his studies at the Rostock University where he passed the final exams as Dipl.-Ing. for shipbuilding.

He received his promotion as Dr.-Ing., Univ. Rostock in 1976 by the thesis titled "Analytical dimensioning of the dressings in the main cross-section of ships including nonlinear optimization methods". He did his habilitation 1989 at the same university by the thesis "Principles and methods for the prediction of ship mass and mass distribution as well as their influence on selected ship parameters in the computer aided ship design and construction process".

Over the years Prof Pentscho Pentschew has consistently worked as assistant at the Shipbuilding Faculty of the Rostock University, Department of Ship Design (1970 to 1977); Head of the laboratory for manufacturing and testing machine elements at the Machine Engineering Institute Varna (1977 to 1981); research assistant at the Section of Machine Engineering and Ship Technology of the Rostock University, Institute of Production Engineering, Shipbuilding and Computer Aided Engineering (1981 to 1992)

From 1992 to the year of his retirement in 2007 he was a Professor of Shipbuilding and Steel Construction at University of Rostock, Faculty of Mechanical Engineering and Ship Technology.

His teaching and research areas are: Hull design; Designing ships; Steel construction; Ocean wave and wind energy utilization; Modelling, determination and simulation of maritime structures; Reduction of pollutant input; Renewable Energies; Further education for the Maritime Industry.

Professor Pentschew is a member of a number of prestigious institutions and holder of honorary titles: Member of the Shipbuilding Engineering Society – STG (since 1990); Member of the Academy of Sciences and Arts "Peter I", Saint Petersburg, Russia (since 1994); Member of the Association of German Engineers –VDI (since 1995); Dr. hc, of TU Varna (since 1995), Visiting Professor at TU Varna (since 2003).

He and his colleagues and associates have developed a number of patents over the years

- Converter system with piezoelectric crystal sheets for obtaining electrical power from sea waves - DE4339307A1;
- Multiple system wave energy converter for electricity generation - DE19504356A1;
- Method of repair of wooden piles involves removing rotten upper end of pile and placing recyclable tube over end of pile to receive synthetic wood replacement pile section - DE102005031044A1;
- Apparatus for removing oil and/or oil-like contaminants drifting on the water surface - DE4321614A1;

Prof. Pentschew is considered to be the doyen of the cooperation between Varna Technical University and the University of Rostock. Over the years, within the framework of the cooperation between the two universities, many Bulgarian students have developed their diploma work at the Rostock University and have always been taken care of by Prof. Pentschew.