



Curriculum vitae of the coordinator of the research team

<i>Name, academic position and degree</i>
Dobrin Vladimirov Efremov, Assistant Prof., Dr.
<i>Affiliation – research organization, department</i>
Bulgarian Academy of Sciences, Institute of Metal Science, Equipment and Technologies „Acad. A. Balevski“ with Bulgarian Ship Hydrodynamic Centre - Varna
<i>Education</i>
19.05.2016 – Assistant Prof. : Bulgarian Academy of Sciences, Institute of Metal Science, Equipment and Technologies „Acad. A. Balevski“ with Bulgarian Ship Hydrodynamic Centre - Varna
18.09.2015 – Dr. : Bulgarian Academy of Sciences, Institute of Metal Science, Equipment and Technologies „Acad. A. Balevski“ with Bulgarian Ship Hydrodynamic Centre - Varna
2001/2010 – Master engineer : Naval Architect at Technical University – Varna
1996/2001 - Professional School of Economics Dr. Ivan Bogorov
<i>Academic positions in the last five years</i>
10.2009/09.2013 – senior expert : Bulgarian Academy of Sciences, Institute of Metal Science, Equipment and Technologies „Acad. A. Balevski“ with Bulgarian Ship Hydrodynamic Centre - Varna
09.2013/31.05.2016 Engineer - shipbuilding and repair Bulgarian Academy of Sciences, Institute of Metal Science, Equipment and Technologies „Acad. A. Balevski“ with Bulgarian Ship Hydrodynamic Centre - Varna
From 01.06.2016 Assistant Prof. : Bulgarian Academy of Sciences, Institute of Metal Science, Equipment and Technologies „Acad. A. Balevski“ with Bulgarian Ship Hydrodynamic Centre – Varna
<i>Main research area and subareas</i>
Maneuverability, propulsion and control systems, maneuverability simulation
<i>Additional research areas and subareas</i>
<i>Specializations abroad and international collaborations</i>
ANSYS Convergence Conference - Workshop, 9-12 June 2015, Thessaloniki, Greece



Scientific awards and membership in scientific societies

First prize at the national competition "Young engineer of the year - 2012" by organizer "The FEDERATION OF THE SCIENTIFIC ENGINEERING UNIONS" (FSEU), October, 2013, Sofia

Member of Scientific and Technical Union - Varna

Name, used in publications in foreign language: Dobrin Efremov

H index (according to Scopus or Web of Science):

Internet address with list of scientific publications (ResearcherID, Research gate, etc.):

Efremov D., *Influence of Curvilinear Motion of the Ship's Propeller Characteristics*, 11th Int. Conference on Marine Sciences and Technologies, Black Sea'2012, Proceedings of Conference, p.60-65, October 2012, Varna

Milanov E., Efremov D., *Simulation research of the transitional arrangements during maneuvering the ship*, Journal of the BAS, Vol. 5, p.13-22, 2012.

Milanov E., Efremov D., *Investigation of the wave pattern around the high-speed catamaran*, "DAYS OF THE MECHANICS IN VARNA", "Frederic Joliot-Curie" International House of Scientists, Resort "St. Constantine and Elena", Varna, Bulgaria, September, 2013.

Milanov E., Chotukova V., Efremov D., Stern F., *Systematic Experimental Investigation of Maneuvering Characteristics of Free Running Delft372 Catamaran in Still Water and Regular Waves*, 30th Symposium on Naval Hydrodynamics, 2-7 November 2014, Hobart, Tasmania, Australia

Milanov E., Chotukova V., Efremov D., *Simulation Model of Danube Pusher Manoeuvrability in Deep and Shallow Waterways*, "European Inland Waterway Navigation Conference", 10-12 September, 2014, Budapest, Hungary, ISBN 978-963-313-124-4

https://www.researchgate.net/publication/282870511_Simulation_Model_of_Danube_Pusher_Manoeuvrability_in_Deep_and_Shallow_Waterways

Milanov E., Chotukova V., Efremov D., Stoyanov S., *Critical loads of ship's rudder during extreme maneuvers*, "Fifth national conference with international participation materials science, hydro - and aerodynamics and national security '2015", section "Hydro - and Aerodynamics", Varna, October, 2015.

http://ims.bas.bg/wp-content/uploads/2015/05/K5_titul_sadarganie-2015.pdf

Efremov D., *Visualization of the wave pattern around high-speed catamaran by software environment "Matlab"*, "Fifth national conference with international participation materials science, hydro - and aerodynamics and national security '2015", section "Hydro - and Aerodynamics", Varna, October, 2015.

http://ims.bas.bg/wp-content/uploads/2015/05/K5_titul_sadarganie-2015.pdf

Milanov E., Chotukova V., Efremov D., Georgiev S., Zlatev Z. and Stern F., Chapter 2 – *Catamaran Manoeuvring in Still Water and Regular Waves*, STO-TR-AVT-216



Efremov D., *Experimental investigation of asymmetric behavior of propeller shafts during maneuvering of twin screw ship*, „Engineering sciences”, Institute for metal science, equipment and technologies “ACAD. A. BALEVSKI” with Hydro – and Aerodynamics centre “–BAS”, 2016

Total number of scientific publications: 9

From them with impact factor or impact rang: 3

Number of citations of the scientific publications:

Number of scientific publications in the last five years: 9

From them with impact factor or impact rang: 3

Number of citations of the scientific publications in the last five years:

Selected scientific publications in the field of the research project

E-mail address for registration in the database of the Bulgarian National Science Fund

d.efremov@bshc.bg

Participation in projects supported by BNSF in the last five years

Participation in projects supported by other sources in the last five years

Financing organization: Bulgarian Academy of Sciences

Type of the competition and year: Research project - 2016

Number or acronym of the project: ДФНП -178 from 14.05.2016

Title: Theoretic-experimental investigation of asymmetric behavior of propeller shafts and rudders during maneuvering of twin screw ship

Project coordinator: Dr, Dobrin Efremov

Status of the project: running