

## *Curriculum Vitae*

### Personal Information

<i>Surname / First name</i>	<b>Mazarakos Thomas</b>
<i>Address</i>	Agiou Spiridonos 28, 122 43, Egaleo, Greece
<i>Telephone</i>	+302105385367
<i>Email</i>	<a href="mailto:tmazar@uniwa.gr">tmazar@uniwa.gr</a>
<i>Office</i>	<a href="#">K10.136</a>
<i>Nationality</i>	Greek
<i>Marital Status</i>	Married, two children

### Education and Training

<i>Dates</i>	<b>January 2010 - February 2022</b>
<i>Title of Qualification</i>	<b>Post-Doctoral Research Engineer</b>
<i>Organization</i>	National Technical University of Athens School of Naval Architecture and Marine Engineering Division of Offshore Structures and Mooring Systems
<i>Dates</i>	<b>December 2004 - January 2010</b>
<i>Title of Qualification</i>	<b>Doctor Engineer</b>
<i>Organization</i>	National Technical University of Athens School of Naval Architecture and Marine Engineering
<i>Dissertation</i>	“Second- Order Wave Loading and Wave Drift Damping on Floating Marine Structures” (in Greek)
<i>Dates</i>	<b>October 2004 - October 2006</b>
<i>Title of Qualification</i>	<b>Master Degree in Marine Science and Technology</b>
<i>Organization</i>	National Technical University of Athens School of Naval Architecture and Marine Engineering
<i>Dissertation</i>	Master Thesis: “Slow-Drift Wave Excitation and Damping on Marine Structures” (in Greek)
<i>Dates</i>	<b>September 1998 - September 2004</b>
<i>Title of Qualification</i>	<b>Naval and Ocean Architect and Marine and Arctic Engineer</b>
<i>Organization</i>	National Technical University of Athens School of Naval Architecture and Marine Engineering
<i>Dissertation</i>	Diploma Dissertation: “The occupational noise and its impact on workers ” (in Greek)

## Honors

Dates	<b>2023 - Today</b> <b>Reviewer, Electronics</b> (EISSN 2079-9292, Published by MDPI).
Dates	<b>2022 - Today</b> <b>Reviewer, Journal of Zhejiang University SCIENCE A</b> (ISSN 1673-565X; Springer Nature Switzerland AG. Part of Springer Nature).
Dates	<b>2022 - Today</b> <b>Reviewer and Scientific Committee, Astrolavos, Journal of New Technologies, Hellenic Mathematical Society.</b>
Dates	<b>2022 - Today</b> <b>Reviewer, Sustainable Energy Technologies and Assessments</b> (ISSN: 2213-1388, Elsevier).
Dates	<b>2022</b> <b>Reviewer and Scientific Committee, Ecological Vehicles and Renewable Energies (EVER), Grimaldi Forum, Monaco.</b>
Dates	<b>2022</b> <b>Reviewer, Fifth International Conference on Physics, Mathematics and Statistics (ICPMS2022) May 21-23, 2022, Sanya, China.</b>
Dates	<b>2021 - Today</b> <b>Reviewer, Journal of Waterway, Port, Coastal, and Ocean Engineering</b> (ISSN 0733-950X, ASCE Library).
Dates	<b>2021 - Today</b> <b>Reviewer, Polish Maritime Research</b> (ISSN: 2083-7429; Gdansk University of Technology).
Dates	<b>2021 - Today</b> <b>Reviewer, Zeitschrift für angewandte Mathematik und Physik</b> (ISSN: 1420-9039; Springer Nature Switzerland AG).
Dates	<b>2021 - Today</b> <b>Reviewer, Buildings</b> (ISSN 2075-5309, Published by MDPI AG, Basel, Switzerland).
Dates	<b>2021 - Today</b> <b>Reviewer, Minerals</b> (ISSN 2075-163X, Published by MDPI AG, Basel, Switzerland).
Dates	<b>2021</b> <b>Reviewer and Scientific Committee, 37<sup>th</sup> Annual Symposium on Mathematics, Hellenic Mathematical Society, November 12 - 14, 2020, Argos - Nafplio, Greece.</b>
Dates	<b>2021</b> <b>Reviewer, 14th European Wave and Tidal Energy Conference Series (14th EWTEC), 5 - 9 September 2021, Plymouth, UK.</b>
Dates	<b>2020 - Today</b> <b>Reviewer, Fluids</b> (ISSN 2311-5521, Published by MDPI AG, Basel, Switzerland).
Dates	<b>2020</b> <b>Reviewer and Scientific Committee, 37<sup>th</sup> Annual Symposium on Mathematics, Hellenic Mathematical Society, November 6 - 8, 2019, Argos - Nafplio, Greece.</b>
Dates	<b>2020</b> <b>Reviewer and Scientific Committee, 4<sup>th</sup> International Conference on Renewable Energies Offshore, (RENEW 2020), 12 - 15 October 2020, Lisbon, Portugal.</b>

<i>Dates</i>	<b>2020 - Today</b> <b>Reviewer, Sustainable Energy Technologies and Assessments</b> (ISSN: 2213-1388; Elsevier B.V.).
<i>Dates</i>	<b>2019 - Today</b> <b>Reviewer, Journal Applied Ocean Research</b> (ISSN: 0141-1187; Elsevier B.V.).
<i>Dates</i>	<b>2019 - Today</b> <b>Reviewer, Applied Sciences</b> (ISSN 2076-3417; CODEN: ASPCC7, Published by MDPI AG, Basel, Switzerland).
<i>Dates</i>	<b>2019 - Today</b> <b>Reviewer, Energies</b> (ISSN 1996-1073; CODEN: ENERGA, Published by MDPI AG, Basel, Switzerland).
<i>Dates</i>	<b>2019 - Today</b> <b>Reviewer, Water</b> (ISSN 2073-4441; CODEN: WATEGH, Published by MDPI AG, Basel, Switzerland).
<i>Dates</i>	<b>2019 - Today</b> <b>Reviewer, Brodogradnja/ Shipbuilding</b> (DOI: 10.21278; Published by Published by Faculty of Mechanical Engineering and Naval Architecture of the University of Zagreb, Croatia).
<i>Dates</i>	<b>2019 - Today</b> <b>Reviewer, Journal of Marine Science and Engineering</b> (ISSN 2077-1312; Published by MDPI AG, Basel, Switzerland).
<i>Dates</i>	<b>2019 - Today</b> <b>Reviewer, Sustainability - Open Access Journal</b> (ISSN 2071-1050; CODEN: SUSTDE, Published by MDPI AG, Basel, Switzerland).
<i>Dates</i>	<b>2019 - Today</b> <b>Reviewer, Symmetry - Open Access Journal</b> (ISSN 2073-8994; CODEN: SYMMAM, Published by MDPI AG, Basel, Switzerland).
<i>Dates</i>	<b>2019</b> <b>Reviewer, International Offshore Wind Technical Conference (IOWTC 2019),</b> November 3 - 6, Corinthia Hotel, St George's Bay, <b>St. Julian's, Malta.</b>
<i>Dates</i>	<b>2019</b> <b>Reviewer and Scientific Committee, 36<sup>th</sup> Annual Symposium on Mathematics,</b> Hellenic Mathematical Society, November 1- 3, 2019, <b>Larissa, Greece.</b>
<i>Dates</i>	<b>2019</b> <b>Reviewer, 29<sup>th</sup> International Ocean and Polar Engineering Conference (ISOPE 2019),</b> June 16 - 21, 2019, <b>Honolulu, Hawaii, USA.</b>
<i>Dates</i>	<b>2019</b> <b>Reviewer, Second International Conference on Mechanical, Electric and Industrial Engineering (MEIE 2019),</b> May 25-27, 2019, <b>Hangzhou, China.</b>

<i>Dates</i>	<b>2019</b> <b>Reviewer, Second International Conference on Physics, Mathematics and Statistics (ICPMS 2019)</b> May 22 - 24, 2019, <b>Hangzhou, China.</b>
<i>Dates</i>	<b>2018- Today</b> <b>Reviewer, Ocean Engineering Journal - Elsevier</b> (B.V., Radarweg 29, 1043 NX Amsterdam, The Netherlands, Reg. No. 33156677).
<i>Dates</i>	<b>2018</b> <b>Reviewer and Scientific Committee, 35<sup>th</sup> Annual Symposium on Mathematics, Hellenic Mathematical Society,</b> 7- 9 December, 2018, <b>Athens, Greece.</b>
<i>Dates</i>	<b>2018</b> <b>Reviewer and Scientific Committee, 3rd International Conference on Renewable Energies Offshore, (RENEW 2018),</b> 8 - 10 October 2018, <b>Lisbon, Portugal.</b>
<i>Dates</i>	<b>2018</b> <b>Session Chairman, “Wave Energy Devices (OWC) III”, 3<sup>rd</sup> International Conference on Renewable Energies Offshore, (RENEW 2018),</b> 8 - 10 October 2018, <b>Lisbon, Portugal.</b>
<i>Dates</i>	<b>2018 - Today</b> <b>Reviewer, Journal of Marine Engineering &amp; Technology</b> ( <i>Official Journal of the Institute of Marine Engineering, Science &amp; Technology (IMarEST), Taylor and Francis online</i> ).
<i>Dates</i>	<b>2018- Today</b> <b>Reviewer, Journal of Environmental Science and Engineering</b> (ISSN 2162 - 5298, David Publishing Company, 616 Corporate Way, Suite 2 -4876, Valley Cottage, NY 10989, USA).
<i>Dates</i>	<b>2018 - Today</b> <b>Reviewer, Advances in Ecological and Environmental Research</b> (ISSN 2517 - 9454, Science Signpost Publishing USA).
<i>Dates</i>	<b>2018 - Today</b> <b>Reviewer, Journal of Water Resources and Ocean Science</b> ( <i>Science Publishing Group, 548 Fashion Ave. New York, NY 10018, USA</i> ).
<i>Dates</i>	<b>2017 - Today</b> <b>Reviewer, Journal of Energy and Power Engineering</b> ( <i>David Publishing Company, 616 Corporate Way, Suite 2 -4876, Valley Cottage, NY 10989, USA</i> ).
<i>Dates</i>	<b>2017 - Today</b> <b>Reviewer, Journal of Offshore Mechanics and Arctic Engineering</b> ( <i>ASME: The American Society of Mechanical Engineers</i> ).
<i>Dates</i>	<b>2017</b> <b>Session Chairman, “Offshore Renewable Energy”, 17<sup>th</sup> International Maritime Association of the Mediterranean (IMAM 2017),</b> 9 - 11 October, 2017, <b>Lisbon, Portugal.</b>
<i>Dates</i>	<b>2017</b> <b>Reviewer and Scientific Committee, 34<sup>th</sup> Annual Symposium on Mathematics, Hellenic Mathematical Society,</b> 3- 5 November, 2017, <b>Lefkas, Greece.</b>
<i>Dates</i>	<b>2017</b> <b>Reviewer and Scientific Committee, International Conference on Physics,</b>

	<i>Mathematics and Statistics</i> (ICPMS 2018) May 12 to 14, 2018 in <b>Shanghai, China.</b>
Dates	<b>2017</b>
	<b>Reviewer and Scientific Committee</b> , <i>International Maritime Association of the Mediterranean</i> (IMAM 2017), 9 - 11 October, 2017, <b>Lisbon, Portugal.</b>
Dates	<b>2017</b>
	<b>Reviewer and Scientific Committee</b> , <i>12th European Wave and Tidal Energy Conference Series</i> (12th EWTEC), 27 August - 1 September 2017, <b>Cork, Ireland.</b>
Dates	<b>2016</b>
	<b>Reviewer and Scientific Committee</b> , <i>33<sup>rd</sup> Annual Symposium on Mathematics, Hellenic Mathematical Society</i> , 28- 30 October, 2016, <b>Chania, Greece.</b>
Dates	<b>2016- Today</b>
	<b>Reviewer, Modern Environmental Science and Engineering</b> ( <i>Academic Star Publishing Company</i> , ISSN: 2333-2581).
Dates	<b>2016</b>
	<b>Reviewer and Scientific Committee</b> 8 <sup>th</sup> International Week Dedicated to Maths 2016, 30 Mars- 3 April, <b>Thessaloniki, Greece.</b>
Dates	<b>2015</b>
	<b>Reviewer and Scientific Committee</b> , <i>32<sup>nd</sup> Annual Symposium on Mathematics, Hellenic Mathematical Society</i> , 30 October - 1 November 2015, <b>Kastoria, Greece.</b>
Dates	<b>2015</b>
	<b>Session Co- Chairman “Wave: hydrodynamic modelling &amp; structural mechanics”</b> , 11 <sup>th</sup> European Wave and Tidal Energy Conference Series (11 <sup>th</sup> EWTEC), 6- 11 September, <b>Nantes, France.</b>
Dates	<b>2015</b>
	<b>Reviewer and Scientific Committee</b> 7 <sup>th</sup> International Week Dedicated to Maths 2015, 18- 22 March, <b>Thessaloniki, Greece.</b>
Dates	<b>2014</b>
	<b>Reviewer and Scientific Committee</b> , <i>31<sup>st</sup> Annual Symposium on Mathematics, Hellenic Mathematical Society</i> , 7- 9 November 2014, <b>Veria, Greece.</b>
Dates	<b>2012</b>
	<b>Reviewer</b> , <i>31<sup>st</sup> International Conference on Ocean, Offshore and Arctic Engineering (OMAE 2012)</i> , 10- 15 June, <b>Rio de Janeiro, Brazil.</b>

## Scholarships and Awards

Dates	<b>2021</b>
	<b>Topic Editor of Sustainability</b> (open Access Journal by MDPI, Impact Factor 2.576, Cite Score 3.2 Scopus)
Dates	<b>2005 - 2009</b>
	Scholarship for Ph.D. studies at the <b>School of Naval Architecture and Marine Engineering</b> , awarded by the Research Committee of NTUA
Dates	<b>2004 - 2005</b>
	<b>National Technical University of Athens</b> , M. and E. Lamprinou award for excellence in mathematics.

<i>Dates</i>	<b>1998 - 1999</b> <b>National Technical University of Athens</b> , Kritikos award for excellence in mathematics.
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### Working experience

<i>Dates</i>	<b>2014</b> Climatic Design and study of thermic losses in a residence, Rikia - Gargaliani, Pref. Messinias [Researcher]
<i>Dates</i>	<b>2012</b> Review and reconnecting of electrical installation on PPC, Amfissa Court's, Fokida, Greece
<i>Dates</i>	<b>2012</b> Hydromechanical analysis of the cable ship "ASTREA" (Response Amplitude Operators) [Researcher]
<i>Dates</i>	<b>2012</b> Hydromechanical analysis of the cable ship "ATALANTI" (Response Amplitude Operators) [Researcher]
<i>Dates</i>	<b>2010</b> Review of the Occupational Risk Assessment, for the company <b>Mouzaki Army Camp, Patra, Greece</b>
<i>Dates</i>	<b>2009</b> Hydrodynamics of the cable ship "ATALANTI" (first and second order) for the company <b>KREOUSA SHIPPING CO., LTD.</b> [Researcher]
<i>Dates</i>	<b>2008</b> Review of the Occupational Risk Assessment, for the company <b>B.S.H. (Bosch and Siemens Home Appliances Group) Pitsos S.A.</b>
<i>Dates</i>	<b>2008</b> Measurement of the Chemical Factors for the company <b>B.S.H. (Bosch and Siemens Home Appliances Group) Pitsos S.A.</b>
<i>Dates</i>	<b>2007</b> Measuring noise and quantification of noise exposure for the employees of <b>B.S.H. (Bosch and Siemens Home Appliances Group) Pitsos S.A.</b>
<i>Dates</i>	<b>2007</b> Expertise for the <b>Port Katakolon, Iliia- Greece.</b> [Researcher]
<i>Dates</i>	<b>2006</b> Parametric analysis for the towing of large ships through the <b>Corinth Channel.</b> [Researcher]

### Teaching experience

<i>Dates</i>	<b>2020 - Today</b> <b>Assistant Professor</b> <i>School of Engineering, Dept. Naval Architecture, University of West Attica (UNIWA)</i> , <b>Ship Hydrostatics and Stability</b> (3rd semester), <b>Floating Offshore Structures, Dynamics and Vibrations of Marine Structures</b> (8th semester), <b>Mooring Systems of Offshore Structures</b> (9th semester).
<i>Dates</i>	<b>21/11/2018 - 22/12/2018</b>

	<p><b>Visiting Professor</b> (<i>Academic Visit and Teaching</i>), <b>Anqing</b> Zhongchuan Diesel Engine Co., Ltd.</p>
<i>Dates</i>	<p><b>5/3/2019 - 30/08/2019</b>  <b>Assistant Professor (407/80)</b>, <i>National Technical University of Athens</i>, <b>Design of Floating Structures</b> (8th semester, Undergraduate program), <b>Environment Loads, Analysis and Design of Floating Structures</b> (1st semester, Postgraduate program), <i>School of Naval Architecture and Marine Engineering</i>.</p>
<i>Dates</i>	<p><b>14/2/2018 - 31/08/2018</b>  <b>Assistant Professor (407/80)</b>, <i>National Technical University of Athens</i>, <b>Design of Floating Structures</b> (8th semester, Undergraduate program), <b>Dynamic behaviour of floating structures</b> (2nd semester, Postgraduate program), <i>School of Naval Architecture and Marine Engineering</i>.</p>
<i>Dates</i>	<p><b>22/10/2018 - 2020</b>  <b>Lecturer</b>, <i>School of Engineering, Dept. Naval Architecture, University of West Attica (UNIWA)</i>. <b>Ship Design and CASD Principles</b> (2nd semester), <b>Hydrostatic and Stability of Ships</b> (3rd semester), <b>Offshore Structures</b> (7th semester), <b>Shipbuilding Technology</b> (7th semester), <b>Mooring Systems of Offshore Structures</b> (8th semester), <b>Ship Damage Stability</b> (9th semester).</p>
<i>Dates</i>	<p><b>10/10/2017 - 30/06/2018</b>  <b>Assistant Professor</b>, <i>School of Engineering, Dept. Naval Architecture, University of West Attica (UNIWA)</i>. <b>Ship Theory I</b> (4th semester), <b>Ship Repairs, Modifications and Surveys, Ship Production</b> (6th semester), <b>Maritime Economics, Special Marine Constructions &amp; Sailing Vessels, Computer Applications to Ship Design II</b> (7th semester), Undergraduate program</p>
<i>Dates</i>	<p><b>2013 - 2018</b>  <b>Assistant Professor</b>, <i>Dept. of Shipbuilding Technology, Technological Educational Institute (TEI) of Athens</i>. <b>Ship Theory I</b> (4th semester), <b>Ship Repairs, Modifications and Surveys, Ship Production</b> (6th semester), <b>Maritime Economics, Special Marine Constructions &amp; Sailing Vessels, Computer Applications to Ship Design II</b> (7th semester), Undergraduate program</p>
<i>Dates</i>	<p><b>2011 - 2020</b>  <b>Teaching Associate</b>, <i>National Technical University of Athens</i>, <b>Environment Loads, Analysis and Design of Floating Structures</b> (1<sup>st</sup> semester) <b>Hydromechanical Analysis and Design of Mooring Systems, Seminars on Recent Developments in Marine and Underwater Technology</b> (2<sup>nd</sup> semester) (Master of Science in "Marine Science and Technology", <i>School of Naval Architecture and Marine Engineering</i>, 1st semester)</p>
<i>Dates</i>	<p><b>2006 - 2010</b>  <b>Graduate Teaching Assistant</b>, <i>National Technical University of Athens</i>, <b>Design of Floating Structures</b> (<i>School of Naval Architecture and Marine Engineering</i>, 8th semester)</p>
<i>Dates</i>	<p><b>2006 - 2010</b>  <b>Graduate Teaching Assistant</b>, <i>National Technical University of Athens</i>, <b>Moorings of Offshore Structures</b> (<i>School of Naval Architecture and Marine Engineering</i>, 9th semester)</p>
<i>Dates</i>	<p><b>2005 - 2010</b>  <b>Graduate Teaching Assistant</b>, <i>National Technical University of Athens</i>, <b>Dynamics in Marine Structures</b> (<i>School of Naval Architecture and Marine Engineering</i>, 6th semester)</p>

## Online Courses and Classes

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### UNIVERSITY OF WEST ATTICA Open eClass

Ship Design and CASD Principles (NAOE1212): <https://eclass.uniwa.gr/courses/NA209/>  
Ship Hydrostatics and Stability (NAOE1318): <https://eclass.uniwa.gr/courses/NA254/>  
Floating Offshore Structures (NAOE1343): <https://eclass.uniwa.gr/courses/NA191/>  
Shipbuilding Technology (NAOE1345): <https://eclass.uniwa.gr/courses/NA190/>  
Mooring Systems of Offshore Structures (NAOME1365): <https://eclass.uniwa.gr/courses/NA206/>  
Ship Damage Stability (NAOME1346): <https://eclass.uniwa.gr/courses/NA229/>  
Dynamics and Vibrations of Marine Structures (NAOME1362): <https://eclass.uniwa.gr/courses/NA253/>

### TEIATH Open eClass

Computer Applications to Ship Design II – Lab (NAFP149): <https://eclass.teiath.gr/courses/NAFP149/>  
Special Marine Constructions & Sailing Vessels (NAFP139): <https://eclass.teiath.gr/courses/NAFP139/>  
Ship Production - Lab (NAFP129): <https://eclass.teiath.gr/courses/NAFP129/>  
Maritime Economics (NAFP121): <https://eclass.teiath.gr/courses/NAFP121/>  
Ship Theory I (NA0404C21): <https://eclass.teiath.gr/courses/NAFP102/>  
Ship Repairs, Modifications and Surveys (NAFP130): <https://eclass.teiath.gr/courses/NAFP130/>  
Ship Production (NAFP124): <https://eclass.teiath.gr/courses/NAFP124/>

### Opencourses

Ship Production [https://ocp.teiath.gr/courses/NAFP\\_UNDER113/](https://ocp.teiath.gr/courses/NAFP_UNDER113/)  
Ship Repairs, Modifications and Surveys: [https://ocp.teiath.gr/courses/NAFP\\_UNDER112/](https://ocp.teiath.gr/courses/NAFP_UNDER112/)  
Special Marine Constructions & Sailing Vessels: [https://ocp.teiath.gr/courses/NAFP\\_UNDER111/](https://ocp.teiath.gr/courses/NAFP_UNDER111/)



## Research experience

<i>Dates</i>	<b>1/8/2022 – 30/9/2022</b>
	<b>‘REPHIL HCMR direct labor’</b> , code: 32.2031703/000, <b>HCMR</b> [Senior Researcher]
<i>Dates</i>	<b>1/9/2018 - 28/2/2022</b>
<i>Programme</i>	<b>‘Floating Hybrid Mooring Wind Turbine Energy System’ (FHMES) - NTUA</b> [Coordinator and Scientific Responsible]
<i>Dates</i>	<b>9/12/2020 - 31/12/2021</b>
<i>Programme</i>	<b>‘Multiple Use of Space for Island Clean Autonomy, Blue Growth Solutions’ (MUSICA)</b> , with code E.U. 862252 (European Union’s Horizon 2020 research and innovation programme) - <b>University of Aegean</b> [Senior Researcher]
<i>Dates</i>	<b>1/6/2018 - 31/12/2021</b>
<i>Programme</i>	<b>‘Hellenic Research Fleet - Reconstruction of the Research Vessel PHILIA’ (RePHIL) - Hellenic Centre for Marine Research (HCMR)</b> [Senior Researcher]
<i>Dates</i>	<b>2/4/2018 - 30/9/2018</b>
<i>Programme</i>	<b>‘Wind and Wave Recovery Offshore Structures and Dissemination of Results’ - NTUA</b> , 67/1058 [Senior Researcher]
<i>Dates</i>	<b>1/10/2017 – 31/12/2019</b>
<i>Programme</i>	<b>‘YouCareOn - Exchange of Good Practices in the matter of Early Stage Career Orientation for Pupils and Young People’</b> (Project Number: 2017-1-DE02-KA202-004122). [Senior Researcher]
<i>Dates</i>	<b>1/7/2016 – 31/3/2018</b>
<i>Programme</i>	<b>‘REFOS: Life-Cycle Assessment of a Renewable Energy Multi-Purpose Floating Offshore System’</b> , with code E.U. 63/2119, <b>NTUA</b> [Senior Researcher]
<i>Dates</i>	<b>4/1/2016 - 30/6/2016, 02/01/2017 – 31/1/2017</b>
<i>Programme</i>	<b>‘JABACO: Development of modular steel jacket for offshore wind farms’</b> , with code E.U. 63/2083, <b>NTUA</b> [Senior Researcher]
<i>Dates</i>	<b>29/2/2016 - 31/3/2016</b>
<i>Programme</i>	<b>‘Special Technical Issues on Ship and Fleet Operation and Maintenance’: Ship Hydrostatics and Stability.</b> Technological Educational Institute of Athens (TEI of Athens). [Researcher]
<i>Dates</i>	<b>1/12/2012 - 31/3/2013, 1/10/2015 - 31/10/2015</b>
<i>Programme</i>	<b>‘Setting-up of a National Program for the exploitation of the offshore wind energy sources in the Aegean Sea’</b> , Three years program (2011- 2014), Supported by the Greek General Secretariat for Research and Technology, <b>Program SYNERGASIA 2009</b> , Partners: Center for Renewable Energy Sources (CRES), National Technical University of Athens, National Center for Marine Research (NCMR), ELICA A., ENTEKA AE, EXERGIA AE, X. ΠΟΚΑΣ ABEE, TERNA ΕΝΕΡΓΕΙΑΚΗ ΑΒΕΤΕ, JASPER, [Senior Researcher]
<i>Dates</i>	<b>9/4/2013 - 30/9/2015</b>
<i>Programme</i>	<b>‘Multi-purpose floating structures for offshore wind and wave energy sources exploitation’ (POSEIDON)</b> , with code 68/114700. <b>NTUA</b> [Senior Researcher]
<i>Dates</i>	<b>5/10/2012 - 20/10/2012</b>
<i>Programme</i>	<b>Integrated Infrastructure Initiative HYDRALAB IV: Asses to major experimental facilities, ‘Floating Wind Project’</b> , (Project Number: HyIV-DHI-01) - <b>DHI/ Copenhagen - Denmark.</b> [Researcher]

<i>Dates</i>	<b>15/1/2012 - 15/3/2012</b>
<i>Programme</i>	<b>'Hydromechanical analysis and Design of Offshore Structures', Response Amplitude Operators of two cable laying ships, with code 62/2915. NTUA [Researcher]</b>
<i>Dates</i>	<b>17/10/2011 - 15/12/2011, 1/9/2012 - 30/9/2012</b>
<i>Programme</i>	<b>'SUSY: Surfacing System for Ship Recovery'. WP5: Development of Numerical simulation procedures, with code E.U. 63/175500. NTUA [Researcher]</b>
<i>Dates</i>	<b>22/11/2009 - 2/12/2009</b>
<i>Programme</i>	<b>Integrated Infrastructure Initiative HYDRALAB III: Asses to major experimental facilities, 'Measurements of hydrodynamic forces and motions on concentric vertical cylinders' - CEHIPAR El Pardo/Madrid- Spain. [Researcher]</b>
<i>Dates</i>	<b>19/6/2009 - 26/6/2009</b>
<i>Programme</i>	<b>Integrated Infrastructure Initiative HYDRALAB III: Asses to major experimental facilities, 'Experimental and numerical evaluation of the drift forces on a floating body of simple geometry (vertical cylinder)', (Contract Nr. 022441(RII3)) - DHI/ Copenhagen - Denmark. [Researcher]</b>
<i>Dates</i>	<b>10/5/2009 - 16/5/2009</b>
<i>Programme</i>	<b>METRI- 2 (Marine Environment Tests And Research Infrastructure 2), 'Wave current interaction with vertical cylinders', (Contract Nr. HPRI-CT-2001-153) IFREMER/Brest- France. [Researcher]</b>
<i>Dates</i>	<b>1/2/2007 - 31/12/2008</b>
<i>Programme</i>	<b>KARATHEODORI-'Solution of the second order hydrodynamic problem (diffraction and radiation) on concentric vertical cylinders for the recovery of the wave energy'. NTUA [Researcher]</b>
<i>Dates</i>	<b>17/6/2007 - 23/6/2007</b>
<i>Programme</i>	<b>METRI- 2 (Marine Environment Tests And Research Infrastructure 2), 'Dynamic Response of Vertical and Catenary Shaped Riser- Type Slender Structures', (Contract Nr. HPRI-CT-2001-00156) IFREMER/Brest- France. [Researcher]</b>
<i>Dates</i>	<b>1/2/2005 - 31/1/2006</b>
<i>Programme</i>	<b>'Gas Import Floating Terminal' (GIFT), with code E.U. 63/1481. NTUA. [Senior Researcher]</b>
<i>Dates</i>	<b>1/1/2005 - 31/12/2006</b>
<i>Programme</i>	<b>PYTHAGORAS II- 'Wave and current interaction on a multiple cylinders configurations'. NTUA [Researcher]</b>
<i>Dates</i>	<b>1/12/2004 - 28/2/2005</b>
<i>Programme</i>	<b>'Reformation of program of undergraduate studies at the School of Naval Architecture and Marine Engineering'. NTUA (Reformation of lesson: Moorings of Offshore Structures). [Researcher]</b>

## Publications

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### Journals

1. Mazarakos T.P., Tsaousis T.D., Mavrakos S.A., Chatjigeorgiou I.K. (2022), **Analytical Investigation of Tension Loads Acting on a TLP Floating Wind Turbine**, Journal of Marine Science and Engineering 10 (3), 318, <https://doi.org/10.3390/jmse10030318>.
2. Mazarakos T.P., and Mazarakos K.P. (2021), **Wave trapping in arrays of cylinders**. Astrolavos, Journal of New Technologies, Hellenic Mathematical Society, Vol. 35: 52-70, ISSN: 1106-2878.
3. Konispoliatis D.N., Katsaounis G.M., Manolas D.I., Soukissian T.H., Polyzos S., Mazarakos T.P., Voutsinas S.G., Mavrakos S.A. (2021), **REFOS: A Renewable Energy Multi-Purpose Floating Offshore System**. Energies. 2021; 14(11):3126. <https://doi.org/10.3390/en14113126>.
4. Mazarakos T.P., and Mazarakos K.P. (2019), **Solving the Second Order Scattering problem of waves in cylindrical coordinates. Spar Buoys and its applications to Floating Wind Turbines**. Astrolavos, Journal of New Technologies, Hellenic Mathematical Society, Vol. 31: 40-63, ISSN: 1106-2878.
5. Mazarakos T.P., Konispoliatis D.N., Katsaounis G.M., Polyzos S., Manolas D.I., Voutsinas S.G., Soukissian T.H., Mavrakos S.A. (2019), **Numerical and Experimental Studies of a Multi-Purpose Floating TLP Structure for Combined Wind and Wave Energy Exploitation**. Mediterranean Marine Science, Vol. 20 (4): 745-763. Special Issue for 2019 dedicated to papers presented at the 12th Symposium of Oceanography & Fisheries, Corfu, 30 May - 3 June 2018. (DOI: <http://dx.doi.org/10.12681/mms.19366>).
6. Chatjigeorgiou I.K., Chatziioannou K., and Mazarakos T.P. (2019), **Near trapped-modes in a long array of truncated circular cylinders**. Journal of Waterway, Port, Coastal, and Ocean Engineering, Vol. 165 (1), ISSN (print): 0733-950X | ISSN (online): 1943-5460, (DOI: 10.1061/(ASCE)WW.1943-5460.0000495).
7. Konispoliatis D.N., Mazarakos, T.P. and Mavrakos S.A. (2016), **Hydrodynamic analysis of three - unit arrays of floating annular oscillating – water - column wave energy converters**. Journal of Applied Ocean Research, Vol. 61: 42- 64.
8. Mazarakos T.P., (2016), **The ‘Magic’ of Mathematics**, Euclides B’, Hellenic Mathematical Society, 2016, Vol. 101.
9. Mazarakos T.P., and Mavrakos, S.A. (2012), **Wave current interaction on a vertical truncated cylinder floating in finite depth waters**. Institution of Mechanical Engineers, Part M: Journal of Engineering for the Maritime Environment Vol. 227 (3): 243 - 255, ISSN 1475-0902.

### Workshops as an invited Speaker

1. Mazarakos T.P., (2016). **Ship design and scientific platforms, Part I - Ships**, 7<sup>th</sup> FerryBox Workshop, 7 - 8 April, Heraklion - Crete, Greece.
2. Mazarakos T.P., and Mavrakos S.A., (2016). **Ship design and scientific platforms, Part II - Multi-purpose floating structures**, 7<sup>th</sup> FerryBox Workshop, 7 - 8 April, Heraklion - Crete, Greece.

### Proceedings/ Conference/ Workshops

3. Mazarakos, T.P. (2022), **Wave loading of a half ellipsis array type offshore structure supporting a wind turbine**, *Second International Conference on Sustainable Mobility Applications, Renewables and Technology (SMART 2022)*, **November 23 - 25, 2022, Lazio, Italy.**
4. Sarantidis S. and Mazarakos, T.P. (2022), **Analytical solution for the hydrodynamic loads of a vertical circular cylinder**, *International Conference on Postgraduate Research in Marine Technology (PostGradMarTec 2022)*, **8 - 9 November 2022, (Online).**
5. Mazarakos, T.P. (2022), **Wave loading of a circular array type offshore structure supporting a wind turbine**, *Mediterranean Conference on Power Generation, Transmission, Distribution and Energy Conversion (MEDPOWER 2022)*, **7 - 9 November, 2022, Valletta, Malta.**
6. Mazarakos T.P. and Manioudakis N.P. (2022), **Parametric analysis of the wave trapping phenomenon in rhombus-forming cylindrical arrays**, *Marine & Inland Waters Research Symposium 2022*, **16 - 20 September, 2022, Porto Heli, Argolida, Greece.**
7. Mazarakos, T.P., Mavrakos, S.A., (2021), **Mean Second Order Wave Drift Forces and Wave Drift Damping in a Floating Wind Turbine Structure** (in Greek). *Annual Symposium on Marine Technology, Greek Institute on Marine Technology*, **December 2021, Piraeus, Greece.**
8. Mazarakos, T.P., and Mazarakos, K.P., (2021), **Catenary Curves and applications in Naval Architecture - Anchoring systems** (in Greek). *37th Annual Symposium on Mathematics, Hellenic Mathematical Society*, **12 - 14 November 2021, Argos - Nafplio.**
9. Mazarakos, T.P. and Sarantidis S. (2021), **Analytical versus BEM solutions for the hydrodynamic analysis of a cylindrical body**. *International Conference on Postgraduate Research in Marine Technology (PostGradMarTec 2021)*, **3 - 4 November 2021, (Online).**
10. Mazarakos T.P., Soukissian T., Mavrakos S.A. (2021), **Hydrodynamic and Wind/Wave Energy Calculations of a Floating Wind Turbine System in the Mediterranean Sea**. *14th European Wave and Tidal Energy Conference Series (14th EWTEC)*, **5 - 9 September, Plymouth, UK.**
11. Mazarakos, T.P., Manolas D.I., Mavrakos, S.A., (2021), **Design and hydro-aero-elastic modeling of a TLP concept for floating Wind Turbine applications**. *31st International Ocean and Polar Engineering Conference (ISOPE 2021)*, **June 20 - 25, 2021, Rhodes, Greece.**
12. Mazarakos, T.P., Manolas D.I., Mavrakos, S.A., (2021), **Design and Hydro-aero-elastic Modeling of a Multi Leg Mooring Concept for Floating Wind Turbine Applications**. *Sixteenth International Conference on Ecological Vehicles and Renewable Energies (EVER' 2021)*, **May 5 - 7, 2021, Grimaldi Forum, Monaco.**
13. Mazarakos, T.P., Mavrakos, S.A., (2020), **Design of Floating Moored Structure for the Exploitation of Offshore Wind Power** (in Greek). *Annual Symposium on Marine Technology, Greek Institute on Marine Technology*, **December 2020, Piraeus, Greece.**
14. Mazarakos, T. P., and Mazarakos, K. P., (2020). **Scattering of waves in cylinder arrays - The free surface elevation problem**, *36<sup>th</sup> Annual Symposium on Mathematics, Hellenic Mathematical Society*, **November 2020, Argos - Nafplio.**
15. Mazarakos, T. P., Mavrakos S.A. (2020). **Mean Second Order Wave Drift Forces Contour of a Floating Structure Concept for Wind Energy Exploitation**, *4<sup>th</sup> International Conference on Renewable Energies Offshore (RENEW 2020)*, **12 - 15 October 2020, Lisbon, Portugal.**

16. Mazarakos, T. P., Mavrakos S.A. and Soukissian T. (2020). **Energy Yield of a Floating Hybrid Mooring Wind Turbine System in the Aegean Sea**, Fifteenth International Conference on Ecological Vehicles and Renewable Energies (EVER' 2020), **September 10 - 12, 2020, Grimaldi Forum, Monaco.**
17. Mazarakos, T.P., and Mazarakos, K.P., (2019). **Second order Hydrodynamic interactions in floating cylinder arrays. The direct matrix inversion method**, 36<sup>th</sup> Annual Symposium on Mathematics, Hellenic Mathematical Society, November 2019, **Larissa, Greece.**
18. Mazarakos, K.P., and Mazarakos, T.P., (2019). **Ancient Greek sacred geometry. Golden rectangle - golden triangle - golden spiral**, 36<sup>th</sup> Annual Symposium on Mathematics, Hellenic Mathematical Society, November 2019, **Larissa, Greece.**
19. Misthos, A.S.A., and Mazarakos, T. P., (2019). **Design of an Eco- Racing Yacht - A Naval Approach**, International Conference Energy in Transportation 2019, September 28, 2019, Athens Hellas.
20. Konispoliatis D.N., Mazarakos T.P., Katsidoniotaki E., Vamiadakis A., Mavrakos S.A. (2019). **Efficiency of an array of OWC devices equipped with air turbines with pitch control**, 13<sup>th</sup> European Wave and Tidal Energy Conference Series (13th EWTEC), 1 - 6 September, **Napoli, Italy.**
21. Mazarakos T.P., Konispoliatis D.N., Soukissian T., Mavrakos S.A. (2019). **Significant motions of a multi - purpose floating offshore structure due to environmental conditions**, 13<sup>th</sup> European Wave and Tidal Energy Conference Series (13th EWTEC), 1 - 6 September, **Napoli, Italy.**
22. Mazarakos, T. P., Mavrakos S.A. and Soukissian T. (2019). **Wave Loading And Wind Energy Of A Spar Buoy Floating Wind Turbine**, Fourteenth International Conference on Ecological Vehicles & Renewable Energies, (EVER' 2019), May 8 - 10, 2019, **Grimaldi Forum, Monaco.**
23. Charalambous, M., and Mazarakos, T. P., (2019). **Design and construction of a tension leg platform for wave and wind exploitation**, 3<sup>rd</sup> Academic University Student Conference - **ASTUCON 2019, March 13 - 17, 2019, Paphos Cyprus.**
24. Mazarakos, T.P., and Mazarakos, K.P., (2018). **First order Hydrodynamic interactions in floating cylinder arrays. The direct matrix inversion method**, 35<sup>th</sup> Annual Symposium on Mathematics, Hellenic Mathematical Society, December 2018, **Athens, Greece.**
25. Charalambous, M., and Mazarakos, T. P., (2018). **Experimental Investigation of the Wave Run Up on a TLP Floating Wind Turbine**, *International Conference Energy in Transportation 2018*, November 3, 2018, **Athens, Hellas.**
26. Mazarakos, T. P. and Mavrakos S.A., (2018). **Second Order Wave Drift Damping of a TLP Floating Structure Concept for Combined Wind and Wave Energy**, 3<sup>rd</sup> International Conference on Renewable Energies Offshore, (RENEW 2018), **8 - 10 October 2018, Lisbon, Portugal.**
27. Konispoliatis D., Mazarakos T.P., Soukissian T., Mavrakos S.A., Mavrakos A.S. (2018). **Parametric analysis of a vertical axisymmetric oscillating water column device for maximum wave energy absorption in the Mediterranean Sea**, 5<sup>th</sup> International Interdisciplinary Symposium, 5 - 7 October 2018, **Rhodes.**
28. Mazarakos T.P., Konispoliatis D., Vamiadakis A., Soukissian T., Mavrakos S.A., (2018). **Evaluation of the Wave and Wind Energy Yield of a Multi-Purpose Floating Structure in the Aegean Sea**, 5<sup>th</sup> International Interdisciplinary Symposium, 5 - 7 October 2018, **Rhodes.**

29. Mazarakos, T. P. and Mavrakos S.A., (2018). **First- and second-order hydrodynamic loading on a three cylinder configuration for offshore activities**, *11<sup>th</sup> International Conference on Deregulated Electricity Market Issues in South Eastern Europe, (DEMSEE 2018)*, **Nicosia, Cyprus**.
30. Konispoliatis D., Mazarakos T.P., Soukissian T., Mavrakos S.A., (2018). **REFOS: A multi-purpose floating platform suitable for wind and wave energy exploitation**, *11<sup>th</sup> International Conference on Deregulated Electricity Market Issues in South Eastern Europe, (DEMSEE 2018)*, **Nicosia, Cyprus**.
31. Mazarakos, T. P., Konispoliatis D.N., Soukissian, T., Mavrakos S.A., Manolas, D., Voutsinas, S., (2018). **Significant and Maximum Loads of a Multi-Purpose Floating Structure due to Environmental Conditions in the Aegean Sea**, *12<sup>th</sup> Panhellenic Symposium of Oceanography & Fisheries, 30 May - 3 June 2018, Corfu, Greece*.
32. Mazarakos, T. P. and Mavrakos S.A., (2018). **Hydrodynamic Loading of a Spar Buoy Floating Wind Turbine in Irregular Waves**, *12<sup>th</sup> Panhellenic Symposium of Oceanography & Fisheries, 30 May - 3 June 2018, Corfu, Greece*.
33. Mazarakos, T. P., Konispoliatis D.N., and Mavrakos S.A., (2018). **Loads on the Brace System of an Offshore Floating Structure**, *13<sup>th</sup> International Marine Design Conference (IMDC 2018)*, **11 - 14 June 2018, Helsinki, Finland**.
34. Mazarakos, T.P., Konispoliatis, D.N., Katsaounis, G., Polyzos, S., Manolas, D., Voutsinas, S.A., Mavrakos, S.A., (2017). **Development of a Multi-purpose Floating structure for the Exploitation of Offshore Wind and Wave Resources**. *Annual Symposium on Marine Technology*, Greek Institute on Marine Technology, **December 2017, Piraeus, Greece**.
35. Mazarakos, T.P., and Mazarakos, K.P., (2017). **Observing the Fourier Series. An Educational Approach**, *34<sup>th</sup> Annual Symposium on Mathematics, Hellenic Mathematical Society*, November 2017, **Lefkas, Greece**.
36. Mazarakos, K.P., and Mazarakos, T.P., (2017). **Holy numbers. A journey to Pythagorean mathematics**, *34<sup>th</sup> Annual Symposium on Mathematics, Hellenic Mathematical Society*, November 2017, **Lefkas, Greece**.
37. Tsokos - Pappas, Andreas, Nichelli, Mario, Poggi, Laura, Bonomini, Matteo Silva, and Mazarakos Thomas, P., (2017) **Alisea - Electric Hybrid Power Catamaran Yacht**, *International Conference: Energy in Transportation 2017 (EinT 2017)*, **21 October, 2017, Athens**.
38. Mazarakos, T. P., Konispoliatis D.N., and Mavrakos S.A., (2017). **Hydrodynamic Loading and Fatigue Analysis of an Offshore Multi-Purpose Floating Structure for Offshore Wind and Wave Energy Sources Exploitation**, *International Maritime Association of the Mediterranean, (IMAM 2017)*, **9 - 13 October, Lisbon, Portugal**.
39. Mazarakos T.P., Konispoliatis D.N., Katsaounis, S. Polyzos, D. Manolas, S. Voutsinas and S.A. Mavrakos (2017). **Numerical and experimental studies of an offshore multi – purpose floating structure supporting a wind turbine**, *11<sup>th</sup> European Wave and Tidal Energy Conference Series (12th EWTEC)*, **27 August - 2 September, Cork, Ireland**.
40. Mazarakos, T. P., and Mavrakos S.A. (2017). **Experimental Investigation On Mooring Loads And Motions Of A TLP Floating Wind Turbine**, *Special Session on Offshore and Marine Renewable Energy: Conversion and Transmission, Twelfth International Conference on Ecological Vehicles & Renewable Energies, (EVER' 2017)*, **April 11-13, 2017, Grimaldi Forum, Monaco**.

41. Mazarakos, T. P., Konispoliatis D.N., and Mavrakos S.A., (2016). **Design of a TLP floating structure concept for combined wind and wave energy exploitation**, *2<sup>nd</sup> International Conference on Renewable Energies Offshore*, (RENEW 2016), **24 - 28 October 2016, Lisbon, Portugal.**
42. Mazarakos, T. P., Konispoliatis D.N., and Mavrakos S.A., (2016). **Geometrical Parametric Analysis of a Floating Structure of OWC Devices**, *12<sup>th</sup> International Conference on Hydrodynamics*, (ICHHD 2016), **18 - 23 September, Egmond aan Zee, The Netherlands.**
43. Mazarakos, T. P., and Mavrakos S.A. (2016). **Experimental investigation on mooring loads and motions of a Spar Buoy floating wind turbine**, *Offshore Energy and Storage Symposium*, (OSES 2016), **13 - 15 July 2016, Valletta, Malta.**
44. Mazarakos, T.P., and Mazarakos, K.P., (2015). **Solving the Second Order Scattering problem for arbitrary axisymmetric bodies and its applications to Offshore Structures**, *32<sup>nd</sup> Annual Symposium on Mathematics, Hellenic Mathematical Society*, November 2015, **Kastoria, Greece.**
45. Mazarakos, K.P., and Mazarakos, T.P., (2015). **Pythagorean Lambdoma. Harmonious Symbolic and the listening of the Being**, *32<sup>nd</sup> Annual Symposium on Mathematics, Hellenic Mathematical Society*, November 2015, **Kastoria, Greece.**
46. Mazarakos T.P., Konispoliatis D.N., Manolas D., Voutsinas S.G. and Mavrakos S.A., (2015). **Modelling of an offshore multi-purpose floating structure supporting a wind turbine including second order wave loads**, *11<sup>th</sup> European Wave and Tidal Energy Conference Series* (11<sup>th</sup> EWTEC), **6 - 11 September, Nantes, France.**
47. Tsokos- Pappas, A., Giftopoulos, S., and Mazarakos, T.P., (2015). **Conceptual and Practical Ship Design of a Hospital Ship- An architectural approach of a conversion from ferry**, *18<sup>th</sup> International Conference on Ships and Shipping Research* (NAV 2015), **24 - 26 June, Lecco, Italy.**
48. Mazarakos T.P., Konispoliatis D.N., Manolas D., Voutsinas S.G. and Mavrakos S.A., (2015). **Coupled hydro- aero- elastic analysis of a multi-purpose floating structure for offshore wind and wave energy sources exploitation**, *12<sup>th</sup> International Conference on Stability of Ships and Ocean Vehicles* (12<sup>th</sup> STAB), **14 - 19 June, Glasgow, Scotland, UK.**
49. Tsokos- Pappas, A., Giftopoulos, S., and Mazarakos, T.P., (2015). **Conversion of ferry to hospital ship: An Architectural approach**, *1<sup>st</sup> International Conference, Energy and Environment in Ships* (EEinS), **22 - 24 May, 2015, Athens.**
50. Mazarakos T.P., Manolas D., Grapsas T., Mavrakos S., Riziotis V., Voutsinas S., (2014). **Conceptual Design and advanced hydro-aero-elastic modelling of a TLP concept for Floating Wind Turbine applications**, *1<sup>st</sup> International Conference on Renewable Energies Offshore*, (RENEW 2014), **24 - 26 November 2014, Lisbon, Portugal.**
51. Mazarakos, T.P., and Mazarakos, K.P., (2014). **Second Order Wave Loads in cylindrical coordinates and its applications to Floating Wind Turbines on Spar Buoys**, *31<sup>st</sup> Annual Symposium on Mathematics, Hellenic Mathematical Society*, November 2014, **Veroia, Greece.**
52. Mazarakos, K.P., and Mazarakos, T.P., (2014). **Sfiniskoi Pythmenes Epimorioi Multiple approaches to interpretative Pythagorean arithmetic**, *31<sup>st</sup> Annual Symposium on Mathematics, Hellenic Mathematical Society*, November 2014, **Veroia, Greece.**
53. Mazarakos, T.P., Mavrakos, S.A., Konispoliatis, D.N., Voutsinas, S., Manolas, D., (2014). **Frequency domain analysis for a coupled hydro- aero- elastic behavior of a moored multi-**

- purpose floating structure**, COCONET Workshop for Offshore Wind Farms in the Mediterranean and Black Seas, *Hellenic Center of Marine Research, Anavyssos, Greece*.
54. Mazarakos, T.P., and Mazarakos, K.P., (2013). **Solving the Second Order Scattering problem of waves in cylindrical coordinates and its applications to Floating Wind Turbines**, *30<sup>th</sup> Annual Symposium on Mathematics, Hellenic Mathematical Society*, November 2013, **Karditsa, Greece**.
  55. Mazarakos, K.P., and Mazarakos, T.P., (2012). **Pythagoras and Music. A mathematical path from Hepati to Niti**, *29<sup>th</sup> Annual Symposium on Mathematics, Hellenic Mathematical Society*, November 2012, **Kalamata, Greece**.
  56. Chatjigeorgiou, I.K., Mavrakos, S.A., Mazarakos, T.P. (2012). **The Hydrodynamics of submerged prolate spheroidal bodies in infinite water depth**, *11<sup>th</sup> International Conference on Stability of Ships and Ocean Vehicles (11<sup>th</sup> STAB)*, **Athens, Greece**.
  57. Mazarakos, K.P., and Mazarakos, T.P., (2011). **Pythagoras, Tetraktys and the power of numbers**, *28<sup>th</sup> Annual Symposium on Mathematics, Hellenic Mathematical Society*, November 2011, **Athens, Greece**.
  58. Mavrakos, S. A., Chatjigeorgiou, I. K., Mazarakos, T. P., and Konispoliatis, D., Maron, A., (2011). **Hydrodynamic forces and wave run-up on concentric vertical cylinders forming piston-like arrangements on Concentric Cylinders**, *26<sup>th</sup> International Workshop on Water Waves and Floating Bodies (26<sup>th</sup> IWWWFB)*, **Athens, Greece**.
  59. Mavrakos, S. A., Konispoliatis, D., and Mazarakos T. P., (2010). **Hydrodynamics on Concentric Cylinders**, *5<sup>th</sup> Workshop on Water Waves: Innovations in experimental and numerical wave research*, **Berlin, Germany**.
  60. Mavrakos, S.A., Mazarakos T.P., and Konispoliatis, D., (2010). **First and second order hydrodynamic effects and wave run- up on a four cylinder configuration at small forward speed**, *10<sup>th</sup> International Congress on Mechanics (HSTAM 2010)*, **Cyprus**.
  61. Mavrakos, S.A., Chatjigeorgiou I.K., Mazarakos T.P., and Konispoliatis, D., (2010). **Experimental and Numerical investigation of the hydrodynamic loads and wave elevation on concentric vertical cylinders**, *HYDRALAB III Workshop*, **Hannover, Germany**.
  62. Pessoa, J., Fonseca, N., Soares, C. G., Le Boullec, M., Ohana, J., Mavrakos, S. A., Mazarakos T. P., Jensen, B., Kirkegaard, J., (2010). **Experimental study of the slowly varying wave exciting drift forces on a body of simple geometry**, *HYDRALAB III Workshop*, **Hannover, Germany**.
  63. Mavrakos, S. A., Mazarakos T.P. (2009). **Numerical and experimental investigation of first- and second- order wave loads on a four cylinder configuration at small horizontal drift velocity**, *4<sup>th</sup> Workshop on Water Waves: Innovations in experimental and numerical wave research*, **Berlin, Germany**.
  64. Mavrakos S.A., Chatjigeorgiou I.K., Mazarakos T. and Thanos I. (2007). **Second-order wave drift damping in hydrodynamically interacting large bodies**, *17<sup>th</sup> ISOPE*, **Lisbon, Portugal**.
  65. Chatjigeorgiou, I. K., Mazarakos T. P., and Mavrakos, S. A., (2007). **First order hydrodynamic loading by a bottom- seated cylinder in a wave- current co existing field**, *8<sup>th</sup> International Congress on Mechanics (HSTAM 2007)*, **Patras, Greece**.
  66. Mavrakos, S.A., Spyrou, K., Tzabiras, G., Thanos, I., Mazarakos, T.P., Tzamtzis, S. (2007). **Towing of large ships through the Corinth Cannel**, *Annual Symposium on Marine Technology*, Greek Institute on Marine Technology, November 2007, **Piraeus, Greece**.



67. Chatjigeorgiou, I.K., Mavrakos, S.A., Mazarakos, T.P., (2007). **Hydrodynamic loading on a bottom seated, free - surface piercing vertical cylinder under the combined action of surface gravity waves and marine current**, *PYTHAGORAS, Symposium on the Scientific Research at National Technical University of Athens*, July 2007, **Plomari, Lesvos, Greece**.
68. Chatjigeorgiou, I.K., Thanos, I., Bourma, P., Mazarakos T.P., and Mavrakos, S.A., (2006). **Mooring System Dynamic Analysis for GIFT Floating Terminal in Survival Conditions**, *25<sup>th</sup> Int. Conf. Offshore Mech. And Arctic Eng.* (OMAE 2006), **Hamburg, Germany**.

#### Posters

1. Machias, A., Samouelides, E., Ventikos, N., Mazarakos, T.P., and Mavrakos, S.A., (2019). **Hellenic Research Fleet Reconstruction of the Research Vessel PHILIA (RePHIL)**, *Workshop: Research Infrastructures for the Society and Knowledge Economy, 25/02/19 at the National Hellenic Research Foundation*, 25 February, 2019, Athens, Greece.

#### University textbooks - Notes

1. Mazarakos T.P. **“Experiments on Floating Offshore Structures”** (*in Greek*), University Notes for the Lecture “Special Marine Constructions & Sailing Vessels”, School of Engineering, Dept. Naval Architecture, University of West Attica (UNIWA), Athens, 2014.
2. Mazarakos T.P. **“TUDelft and Sailing Vessels”** (*in Greek*), University Notes for the Lecture “Special Marine Constructions & Sailing Vessels”, School of Engineering, Dept. Naval Architecture, University of West Attica (UNIWA), Athens, 2014.

#### Books

Mazarakos T.P. (2021), **“Executive of management and economy in shipping”**, (*in Greek*) 24 grammata, pp. 286, ISBN: 978-618-20119-35.

## Personal Skills and Competences

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### Languages

*Mother  
Tongue(s)*  
*Other  
Language(s)*  
*Computer Skills*

Greek

English

French

An excellent user of Microsoft's Windows and Microsoft's programs Word, Excel and PowerPoint.

Knowledge and experience in CAD programs (AutoCAD, Rhinoceros).

Naval programs (Multisurf, Hydro, DelftShip, Archimedes, Maat Hydro)

Knowledge and experience in Finite Element Programs (ALGOR, PATRAN, FLUENT, GAMBIT, ANSYS AQWA).

Software packages Mathematica, Maple.

Programming: Experienced in C/C++, Matlab, Fortran 95

Knowledge in Water Modeling Software MIKE 21

Software packages for Geosystems, GIS and Mapping (pixel- based):  
ER-MAPPER 7.0, Imagine Erdas.

Operating systems: UNIX

## Research Interests

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Hydromechanical analysis and design of marine structures other than ships:

Solution methods for the first- and second- order body- wave current interaction problems, under mono- or bi- chromatic wave-, combined wave- current- and seismic- excitation. Hydroelasticity problems. Evaluation of the mean- and slowly- varying drift loads, maximum excursions and wave drift damping.

Hydrodynamic analysis of interconnected small- or large- volume floating structures with applications to the design of several types of offshore structures for the ocean exploration and exploitation (offshore hydrocarbon exploration, production and storage, floating terminals, fishing farm cages for the open sea, floating piers and marinas, floating breakwaters, etc.).

Hydromechanic analysis and optimum design of moored floating structures. Design and efficiency evaluation of single or interacting wave- energy converters. Floating Wind Turbines. Wind Farms, Wave Trapping. Towing tank hydrodynamic tests of ship and floating structure models.

## Government Sector Committees

<i>Dates</i>	<b>2022 - Today</b> <b>Member of the Registry of Assessors of the Hellenic Foundation for Research and Innovation (H.F.R.I.).</b>
<i>Dates</i>	<b>2016 - Today</b> <b>Member of the Registry of Assessors of the General Secretariat for Research and Innovation (G.S.R.I.).</b>
<i>Dates</i>	<b>2013- Today</b> <b>Member of Committee of Assessors, supervisors, auditors, inspectors, experts of E.O.P.P.E.P.</b> for the preparation of responses and updating questions for the Certification Regulations according to Training Certification exam for the graduates of Technical Professions will be held (4910/ 22.05.2013).
<i>Dates</i>	<b>2013- Today</b> <b>Examiner, of the National Organization for the Certification of Qualifications &amp; Vocational Guidance (EOPPEP) For Technical Professions</b> ( <i>School of Shipping Direction, School of Heating, Ventilation, Air- Conditioning and Refrigeration Mechanics and Installers, technical engineering installations, welders, pilots for industrial machinery, refrigeration technicians, construction, maintenance and repair of hydraulic installations, technical works machinery, construction, maintenance, repair and monitoring of the operation of liquid and gaseous fuels combustion installations, implementation, maintenance, repair and monitor the operation of mechanical installations in industries and other units and the control and monitoring of steam boilers</i> ).
<i>Dates</i>	<b>September 2012</b> <b>Examiner, of the National Certification Student Qualifications For Technical Professions (E.O.P.P.E.P), School of Shipping Direction.</b>
<i>Dates</i>	<b>September 2011</b> <b>Examiner, of the National Certification Student Qualifications For Technical Professions (E.O.P.P.E.P), School of Heating, Ventilation, Air- Conditioning and Refrigeration Mechanics and Installers.</b>
<i>Dates</i>	<b>July 2011</b> <b>Examiner, of the National Certification Student Qualifications For Technical Professions (E.O.P.P.E.P), School of Shipping Direction.</b>

## **Volunteering Work**

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<i>Dates</i>	<b>2012</b> <b>Athens Classic Marathon</b>
<i>Dates</i>	<b>2011</b> <b>Athens Classic Marathon</b>
<i>Dates</i>	<b>2011</b> <b>Special Olympics Athens 2011</b>
<i>Dates</i>	<b>2010</b> <b>Athens Classic Marathon 2500 years</b>
<i>Dates</i>	<b>2006</b> <b>ISF WORLD GYMNASIADE (data entry)</b>
<i>Dates</i>	<b>2004</b> <b>Paralympic Games Athens 2004 (data entry)</b>
<i>Dates</i>	<b>2004</b> <b>Olympic Games Athens 2004 (data entry- Swatch Team)</b>
<i>Dates</i>	<b>2004</b> <b>Panhellenic Athletics Championship (data entry- Swatch Team)</b>

## **Other**

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### **Ph. D. Candidates**

**Sarantos Sarantidis:** Title of the Ph.D. thesis: *Wave Trapping and its Application in Floating Offshore Structures for Wave Energy Recovery*, School of Engineering, Naval Architecture Department, University of West Attica (UNIWA), supervisor.

### **Supervising Dissertations**

*Completed: 38*

*In Progress: 5*

*Supervising Committee: 19*

### **Presentations / Conferences**

*Presentations in 50 conferences, 2 as an invited speaker*