

## PERSONAL INFORMATION

MOCANU N. Costel Iulian

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<http://www.fan.ugal.ro>

Sex Male | Date of birth 05/02/1957 | Nationality Romanian

POSITION /  
OCCUPATIONAL FIELDProfessor “Dunărea de Jos” University of Galati (UDJG)  
Naval Architecture Faculty (FAN)

## WORK EXPERIENCE

2006-present

## Professor (O.M.4215/12.08.2002)

Professor “Dunărea de Jos” University of Galati  
Naval Architecture Faculty (FAN), Naval Architecture Departament  
Str. Domnească nr 47, RO-800008, Galați, România, web-site: [www.ugal.ro](http://www.ugal.ro)  
Tel. +40-336-130 108 Fax. +40-236-461 353

## Main activities and responsibilities

- Teaching activities for bachelor's and master's programs (course, laboratory, project), in the following disciplines: Strength of materials (C), Dynamics of propulsion systems (C, P, L), Unconventional materials (C, L).
  - PhD management and research activities (OM1071 / 15.07.2007) in the field of Mechanical Engineering, Hydrodynamics and Naval Structures subdomain / Naval Architecture: Analysis of structures by the finite element method, General and local vibration of naval structures, Ship dynamics (seakeeping and hydro -elasticity, ship's forward resistance), CAD / CAE-FEM computer-aided engineering. Activități administrative:
  - Dean at the Faculty of Naval Architecture, UDJG (2016-2020)
  - Head of the doctoral field Naval Architecture at the Doctoral School of Mechanical Engineering
  - Evaluation activities
- Member of the commissions for awarding the title “Professor Emeritus”, UDJG (2017)  
Member of teachers' promotion commissions  
Member of commissions for the analysis of research results

Type or sector of activity: Higher education / Teaching and scientific research

1986-2006

**- 1998 - 2006**

- Associate professor

**- 1996 - 1998**

- Lecturer

**- 1986 - 1998**

- Researcher and assistant

*“Dunărea de Jos” University of Galati**Naval Architecture Faculty (FAN), Naval Architecture Departament**Str. Domnească nr 47, RO-800008, Galați, România, web-site: www.ugal.ro**Tel. +40-336-130 108 Fax. +40-236-461 353***Main activities and responsibilities**

- *Teaching activities for bachelor's and master's programs (course, laboratory, project), in the following disciplines: Strength of materials (C), Dynamics of propulsion systems (C, P, L), Unconventional materials (C, L).*

- *Research activities in Mechanical Engineering, Hydrodynamics and Naval Structures / Naval Architecture: Analysis of structures by finite element method, Dynamics of propulsion systems, Computer aided engineering CAD / CAE-FEM, Numerical methods and programming techniques, Calculation and shipbuilding .*

- *Evaluation activities:*

- *Member of the commissions for approving the research works elaborated at ICEPRONAV S.A. Galați (1997-2002)*
- *Member of the internal approval commissions of the research works elaborated at UDJG Galați (1997-2010)*
- *Member of doctoral committees and for the public defense of doctoral theses (since 2004)*
- *Bachelor's Degree Committee, Dissertation (since 1994)*

**Type or sector of activity:** *Higher education / Teaching and scientific research*

1986-1990

Research Engineer

At the Department of Shipbuilding and Strength of Materials, Faculty of Mechanics, University of Galati

**Main activities and responsibilities**

*Research activities in Mechanical Engineering, Hydrodynamics and Naval Structures / Naval Architecture: Analysis of structures by finite element method, Dynamics of propulsion systems, Computer aided engineering CAD / CAE-FEM, Numerical methods and programming techniques, Calculation and shipbuilding*

**Type or sector of activity:** *Scientific research in Shipbuilding*

1983-1986

- *Engineer at workshop IA slipway-dry dock – Galati Shipyard, Alexandru Moruzzi Street, no. 32, web-site: www.damen.ro**Tel. +40-236-307 230 Fax. +40-236-307 211***Main activities and responsibilities**

- *Hull construction*

**Type or sector of activity:** *Shipbuilding engineering*

## EDUCATION AND TRAINING

1991-1998

*Ph.D. engineer**Mechanical Engineering / Elasticity, Plasticity and Strength of Materials (O.M. 3543 / 03.04.1996)**“Dunărea de Jos” University of Galati**Fundamental and applied scientific research thesis with the topic: "Contributions on the calculation of the strength of naval shaft lines"*

Level EQF 8

PhD 7 ani

1978-1983

*Ship Engineer**Faculty of Mechanics, Ship Corps Construction Specialisation**“Dunărea de Jos” University of Galati*

Level EQF 6

Licence 5 ani

1972-1977	<p><i>Strength of materials, Mechanics, Fluid mechanics and elements of wave theory, Calculation and construction of ships, Mechanics of ship structures, Statistics and dynamics of ships, Numerical methods of calculation in shipbuilding, Technology of shipbuilding, Special mathematics, Mathematical analysis, Physics</i></p> <p><i>Specialized high school studies in the specialization Ships</i> <i>High school diploma</i></p>	<p>Level EQF 4 Technical High School 5 ani</p>
2000-2005	<p><i>The "Mechanic no. 1 "from Galați (currently Radu Negru High School from Galați)</i></p> <p><i>Mathematics, Physics, Chemistry, Applied Mathematics (Computer Science), Biology, Romanian, English, French, History, Geography, specialized disciplines shipbuilding</i></p> <p><i>General Manager at Helmers SRL Galați (company with 100% Dutch capital subcontractor of Damen SA Galați) – shipbuilding activities in accommodation part of ships, ventilation, fresh water and sludge systems</i></p>	
2005-2007	<p><i>General Manager at Kranendonk &amp; Hertel Marine Services SRL Galați (company with 100% Dutch capital subcontractor of Damen SA Galați) – shipbuilding activities in accommodation part of ships, ventilation, fresh water and sludge systems</i></p>	
2007-2016	<p><i>Production manager and site manager in Damen Galati and Cochin Shipyard (India) for Maritime Interior SRL Brăila (company with 100% Norwegian capital subcontractor of VARD Brăila, Tulcea, Damen SA Galați) – shipbuilding activities in accommodation part of ships, ventilation, fresh water and sludge systems</i></p> <p><i>Type or sector of activity: Shipbuilding</i></p>	

**SPECIALIZATIONS IN ROMANIA**

1989-1990  
2006

*Electrical Tensometry course at the Polytechnic University of Bucharest*  
*Specialization course for tensometric measurements at pressure tanks at ISCIR Bucharest*

**PERSONAL COMPETENCE**

Native language  
Other known foreign languages  
(Self evaluation)

Romanian

<i>UNDERSTANDING</i>		<i>SPEAKING</i>		<i>WRITING</i>
<i>Listening</i>	<i>Reading</i>	<i>Join the conversation</i>	<i>Oral speech</i>	
<i>C1</i>	<i>C1</i>	<i>C1</i>	<i>C1</i>	<i>C1</i>
<i>B2</i>	<i>B2</i>	<i>B2</i>	<i>B2</i>	<i>B2</i>

*Levels: A1 / A2: Elementary user - B1 / B2: Independent user - C1 / C2: Experienced user*  
*Common European Framework of Reference for Languages*

Communication skills

- *Communication ability, I communicate very well with the members of the research teams, with the teachers from the country and from abroad, as well as with the students of the faculty (within the research contracts, dean, coordination of the bachelor's, dissertation and doctoral projects).*
- *Ability to adapt to multicultural environments, obtained through work experience abroad*
- *Team spirit, coordinator and team member on research contracts, as well as dean.*
- *Managerial spirit*

Organizational / managerial skills

- *Leadership (2016-2020) dean of the Naval Architecture Faculty;*
- *Organizational spirit (in the management of the Naval Architecture Faculty, organization of training courses in collaboration with AVEVA Marine Germany, specialization courses in shipbuilding);*
- *Good experience of project management and research teams (director of research contracts, expertise, evaluation of specifications, representative of the Ministry of Economy on various European projects);*
- *Member of international and national committees at conferences in the country (Galați, Constanța);*
- *Member of the Commissions for organizing student scientific competitions;*
- *Expert member in evaluation teams of shipbuilding projects won through competition by ATG Shipyard Giurgiu, AFDJ Galați, APDM Galați, CNFR NAVROM Galați, ARSOVM Constanța.*
- *Member of the organizing team of the 9<sup>th</sup> International Congress of Romanian Mathematicians (June-July 2019).*

Skills acquired in the workplace

- *Numerical and experimental analysis of naval structures.*
- *Numerical and experimental analysis of the ship's hull dynamics.*
- *Design of naval structures and specific CAD-CAE tools.*  
(Through country studies and national and international contracts and grants)

Digital competences

SELF				
Information processing	Communication	Content creation	Security	Problem solving
Experienced user	Experienced user	Experienced user	Experienced user	Experienced user

Levels: Elementary user - Independent user - Experienced user

Digital skills - Self-assessment grid

- *Programming in the following languages: Pascal, C ++, Fortran, Basic*
- *CAD-CAE software for the following types of analysis in Mechanical Engineering / Naval Architecture:*  
- *FEM structural analysis: Cosmos / M, Siemens PLM Software - FEMAP / Nastran NX;*  
- *computer-assisted graphics: AutoDesk AutoCAD;*
- *Office and communication applications: MS-OFFICE, OPEN-OFFICE, etc.*
- *Using applications on operating systems: MS-Windows, HP / Digital-Unix, Linux, MS-DOS, VMS*  
(Through studies in the country and abroad)

Other competences

- *Experimental measurements of deformations and stresses using Electrical Tensometry*
- *Experimental measurements of deformations and stresses using optical systems (Aramis HS from GOM Germany)*
- *Sailing with sports boats (in free time)*

Driver's license

- *B category*
- *Internationally driven sports boats*

ADDITIONAL INFORMATION

Belonging to prestigious scientific or professional societies abroad and in the country

- Member of national scientific organizations:
- Society of DAAD fellows from Romania, (SOFDAAD), Bucharest. (since 1995) (Alumniportal Deutschland)
- Naval Architecture / Hydrodynamics Research Center, Naval Structures and Equipment, "Dunărea de Jos" University of Galați (since 2001)
- Romanian Society of Computer Aided Engineering, (SIAC), Bucharest. (since 1999)
- Romanian Association of Tensometry, (ARTENS), Bucharest (since 2004)
- General Association of Romanian Engineers, (AGIR), Bucharest (since 2006)
- Professional Association in Modern Manufacturing Technologies, (ModTech), Iași (since 2012)
- Romanian Shipbuilders Association, (ANCONAV), Galați (since 2012)
- Member of non-governmental organizations:
- Body of technical experts from Romania, (CET), Galati branch (since 1997)
- Naval Architects Association (president since 2018)

Member of the editorial staff of scientific journals

- Member of the editorial staff of Fascicle XI, Shipbuilding, The Annals of the "Lower Danube" University of Galati, Galati University Press (ISSN 1221-4620), CNCSIS B + code 222, indexed (BDI) :: Genamics JournalSeek / WorldCat Knowledge Base, SCPIO, CSA Cambridge Scientific Abstracts / Serials of Mechanical & Transportation Engineering;
- Member of the Editorial Scientific Committee at the Ovidius University Annual Scientific Journal. Mechanical Engineering Series, Ovidius University Press (ISSN 1224-1776), CNCSIS B + code 603, BDI: INSPEC, CSA (1996-2010);
- Scientific referent at Galați University Press Publishing House, Engineering Sciences, CNSIS code 281 (since 2008).

Scientific activity (relevant according to CNATDCU Criterion OM 6129 / 20.12.2016):

- Publications as author and co-author:
- 4 course support manuals & 3 application guidance (according to the selection by disciplines);
- 10 specialized books;
- 10 articles in ISI-WOS Web of Science indexed journals and proceedings (of which 4 are also indexed by Scopus);
- 7+4 articles in Scopus journals and indexed proceedings
- 105 articles in journals and proceedings indexed in other BDI international databases;
- 29 articles in non-indexed international publications
- 13 articles in non-indexed national publications
- Research activity as project director / manager and team member:
- 2 research grants;
- 23 research projects with the economic environment (with partners from the Romanian naval industry), (technical / legal expertise in the field of naval engineering is not included, etc.).

Persoane de contact

Prof.dr.ing. Adrian Lungu, "Dunărea de Jos" University of Galați  
Prof.dr.ing. Vasile Năstăsescu, Military Technical Academy in Bucharest  
Prof.dr.ing.Dr.H.C. (major of Constanta City) Vergil Chițac, "Mircea cel Bătrân" Naval Academy from Constanța

## ANNEXES

The selective list of significant scientific research publications and activities is included in the continuation of the CV.

Data: 16.02.2024

## Selective list of significant scientific research publications and activities

### THESIS

**Mocanu, C.I.**, 1998, "*Contributions to the static and dynamic calculation of naval shafts*" – Galați, România, 1998, îndrumător prof.dr.ing. Liviu Dan Stoicescu.

### BOOKS

1. **Costel Iulian MOCANU**, Anton HADĂR, Daniela Ioana TUDOSE, „*Comportarea sub sarcini a barelor cu pereți subțiri*” în curs de publicare 2024.
2. **Costel Iulian MOCANU, & colectiv**, „*Instalații navale de punte*”, în curs de publicare 2024.
3. Ceangă, V., **Mocanu, C.I.**, Ungureanu, C, 2017, „*Instalații navale de bord*”, Editura Didactică și Pedagogică, ISBN 978-606-31-0353-7, București
4. **Mocanu, C. I.**, Mohor-Ivan, I, Praisler, M., 2013, “*Industrial Evolution in Romania: Focus on the Maritime Lower Danube Regional Centres – Short Report*”, Europlus, ISBN: 978-606-628-055-6 (Ediție bilingvă: în română și engleză) (pp.15-26; 115-126), Galați
5. **Mocanu, C. I.**, Mohor-Ivan, I., Praisler, M., 2013, “*Industrial Evolution in Romania: Focus on the Maritime Lower Danube Regional Centres – Short Report*”, Noesis, ISBN: 978-960-7619-15-0 (Ediție bilingvă: în greacă și engleză) (pp. 14-25; 127-139), Greece
6. **Mocanu, C. I.**, Mohor-Ivan, I., Praisler, M., 2013, “*Industrial Evolution in Romania: Focus on the Maritime Lower Danube Regional Centres – Short Report*”, National Academy of Sciences, Yerevan, ISBN 978-5-8080-1046-8 (Ediție bilingvă română și armeană), Yerevan
7. Fetecău, C., **coordonator, Mocanu, C. I.**, F. Stan, 2008, *Model biomecanic pentru optimizarea protezelor de șold*. Editura Cartea Universitară, București, 2008, 232 pag., ISBN 978-973-731-612-7
8. **Mocanu, C. I.**, 2005, “*Metode moderne în ingineria mecanică. Diferențe finite*”, Editura Zigotto, ISBN 973-87793-3-2, Galați
9. **Mocanu, C. I.**, 2005, “*Rezistența Materialelor. Ediția a II a revizuită și completată.*”, Editura Zigotto, ISBN 973-87793-2-4, Galați
10. Ceangă, V., **Mocanu, C.I.**, Teodorescu, 2003, “*Dinamica sistemelor de propulsie*”, Editura Didactică și Pedagogică, ISBN 973-30-2310-8, București
11. **Mocanu, C.I.**, Gavrilescu, I., 1999, “*Rezistența materialelor*”, “Low Danube” University Foundation Publishing House, Galați.
12. Gavrilescu, I., **Mocanu, C.I.**, 1999, “*Analiză cu elemente finite*”, “Low Danube” University Foundation Publishing House, Galați.

### SCIENTIFIC ARTICLES

#### ISI indexed

1. Moise, A M Pohlca, **C I Mocanu** and L Domnisoru, “Structural evaluation of a pusher-tug vessel to comply with the requirements for navigation in ice covered waters” THE 10th INTERNATIONAL CONFERENCE ON ADVANCED CONCEPTS IN MECHANICAL ENGINEERING ACME2022, Iasi, Romania.
2. **C I Mocanu**, D I Tudose, A Hadar and E Gavan, “Strains and stresses at welding with tubular wires and swinging the electric arc”, THE 10th INTERNATIONAL CONFERENCE ON ADVANCED CONCEPTS IN MECHANICAL ENGINEERING ACME2022, Iasi, Romania.
3. **COSTEL IULIAN MOCANU**, ALIN POHILCA, LIVIU MOISE, DANIELA IOANA TUDOSE “Comparative studies on the behaviour of flat panels made of grp under static and dynamic loads” *Materiale Plastice (Mater. Plast.)*, Year 2021, Volume 58, Issue 4 <https://doi.org/10.37358/MP.21.4.5548>
4. **C I Mocanu**, D I Tudose, A Hadar, E Gavan, “*Strains and Stresses at Welding with Tubular Wires and Swinging the Electric Arc*”, 2022, The 10th International Conference on Advanced Concepts in Mechanical Engineering – ACME 2022, organized by Mechanical Engineering Faculty, in the „Gheorghe Asachi” Technical University of Iasi, Romania, June 09 – 10, 2022, in curs de indexare.
5. **Costel Iulian MOCANU**, Alin POHILCA, Liviu MOISE, Daniela Ioana TUDOSE, 2021, „*Comparative studies on the behaviour of flat panels made of GRP under static and dnamic loads*”, Revista de Materiale Plastice, Vol. 8, Online ISSN 2668-8220, Print ISSN 0025-5289, <https://doi.org/10.37358/Mat.Plast.1964>, [hhttps://revmaterialeplastice.ro](https://revmaterialeplastice.ro)
6. A. Caramatescu, **CI Mocanu**, A Modiga, 2019, “*A new concept of composite material for high speed boats*”, Revista de Materiale Plastice, nr. 1 / 2019, ISSN 2537-5741, ISSN-L 0025-5289
7. A. Caramatescu, **CI Mocanu**, FD Pacuraru, G Jagite, 2017, “*Estimation of Planing Forces in Numerical and Full Scale Experiment*”, International Maritime Association of the Mediterranean IMAM 2017, 2, 403-408, ISBN 978-0-8153-7993-5
8. Mihaela Costache, George Jagite, **Costel Iulian Mocanu**, 2014, „*3D-FEM strength analysis for the influence of*



*corrosion over deck plating of a oil tanker ship*”, International Journal of Scientific Engineering and Technology (ISSN: 2277-1581) CFP by IJSET for Vol. 3. Issue 11 (Nov. 2014) GIF: 0.489, ISI : 0.805, ICV: 5.63 points (**20 pct./3 autori= 6,67 pct.**)

9. I. Chirică, **C. Mocanu**, L.D. Stoicescu, 1998, „*The naval shaft vibration*”, IMEKO TC3/APMF, Theory and practice, Taejon, Korea, 14-18 September 1998
10. Caramatescu, A., **Mocanu, C.I.**, Păcuraru, F.D., Jagîte, G., “Estimation of Planing Forces in Numerical and Full Scale Experiment”, Proceedings of The International Maritime Association of the Mediterranean IMAM 2017 ISSN 1221-4620, p. 403-408, 2017;

### Proceedings ISI

1. Florentina TOCU, **Costel Iulian MOCANU**, 2010, „*Environmental factors on the behavior of a boat stern structure made of composite materials*”, Proceedings of the INTERNATIONAL SCIENTIFIC WORKSHOP FOR STUDENTS, ISSN 2068-8652, pag.296-303
2. Catalin Fetecau, Ana Munteanu, Felicia Stan, **Costel Mocanu**, 2007, „*Machining of CESTILENE HD 500 thermoplastic*”, Proceeding of The 1st International Conference on Polymers Processing in Engineering PPE 2007, Galati, Romania, 25-26 october 2007, ISBN 978-973-30-1970-1
3. Ionel Chirică, **Costel Iulian Mocanu**, Ionel Gavrilescu, Iulian Barsan, Vasile Giuglea, 2004, „*Training ship “Mircea” rigging equilibration by strain gauges*”, Proceedings of the 10<sup>th</sup> international symposium on experimental stress analysis and material testing, Volume 1, p1-3, 21-23 October 2004, Sibiu, Romania.
4. **C.I. Mocanu**, I.Chirică, L.D. Stoicescu, 1999, „*Naval shaft behaviour analysis*”, Proceedings of Romanian – Japanese Workshop on “Fracture and Damage Mechanics and Experimental Mechanics in Marine Engineering”, Constanta, June 1999.

### BDI indexed

1. Maria Gherghisan \*, Vasile Bria \*\*, Adrian Circiumaru \*\*, **Costel Iulian Mocanu \*\***, Eugen Găvan \*\*, “Ovidius” University of Constanta, “Dunarea de Jos” University of Galati, “Aluminum, an alternative to GRP for manufacturing of sports boats”, Annals of “Dunarea de Jos” University of Galati. Fascicle XI Shipbuilding: Vol 46 (2023), <https://doi.org/10.35219/AnnUgalShipBuilding.2023.46>, Published: 2023-12-04
2. Radu Alexandru Mocanu, Radu Bosoancă, Dan Constantin Obreja, **Costel Iulian Mocanu** ”The influence of the shapes of a model of an individual house on the pressures of the air currents in the wind”, Annals of “Dunarea de Jos” University of Galati. Fascicle XI Shipbuilding: Vol 45 (2022), <https://doi.org/10.35219/AnnUgalShipBuilding.2022.45>, published 12.03.2022
3. Liviu Moise, Eugen Găvan, Daniela Ioana Tudose, **Costel Iulian Mocanu**, ”A new ice breaker module concept”, Annals of “Dunarea de Jos” University of Galati. Fascicle XI Shipbuilding: Vol 45 (2022), <https://doi.org/10.35219/AnnUgalShipBuilding.2022.45>, published 12.03.2022
4. Liviu Crudu, Radu Bosoancă, Radu Alexandru Mocanu, Dan Constantin Obreja, Costel Iulian Mocanu, ”Design and calibration of a six component dynamometer used in an aerodynamic tunnel”. Annals of “Dunarea de Jos” University of Galati. Fascicle XI Shipbuilding: Vol 45 (2022), <https://doi.org/10.35219/AnnUgalShipBuilding.2022.45>, published 12.03.2022
5. Anca Bleoju, Alin Pohlca, Daniela-Ioana Tudose, Costel Iulian Mocanu, “Ship concept for cleaning the navigable inland water of floating debris”, Annals of “Dunarea de Jos” University of Galati. Fascicle XI Shipbuilding: Vol 44 (2021), DOI: <https://doi.org/10.35219/AnnUgalShipBuilding/2021.44.06>
6. Anca Bleoju, Eugen Gavan, Daniela-Ioana Tudose, **Costel Iulian Mocanu**, “*Impact of high strength steels over large ships fore peak structure*”, ” Annals of “Dunarea de Jos” University of Galati. Fascicle XI Shipbuilding: Vol 44 (2021), DOI: <https://doi.org/10.35219/AnnUgalShipBuilding/2021.44.10>
7. Nichita Sava, Liviu Moise, Daniela-Ioana Tudose, **Costel Iulian Mocanu**, Eugen Gavan, “Shapes’ optimisation using numerical naval hydrodynamics of a Ro-Ro double ferry with electric propulsion to cross the Danube”, ” Annals of “Dunarea de Jos” University of Galati. Fascicle XI Shipbuilding: Vol 44 (2021), DOI: <https://doi.org/10.35219/AnnUgalShipBuilding/2021.44.12>
8. Elena Gabriela Hulea, **Costel Iulian Mocanu**,” NOISE REPORT ONBOARD OF CARGO VESSEL”, ” Annals of “Dunarea de Jos” University of Galati. Fascicle XI Shipbuilding: Vol 43 (2020), ISSN 1221-4620, e-ISSN 2668-3156
9. Alin Marius Pohlca, Daniela Mihaela Loica, Florin Renardo Teodor, **Costel Iulian Mocanu**,” Study of superstructure and mast vibrations / frequencies reduction solutions for a maritime tug” , ” Annals of “Dunarea de Jos” University of Galati. Fascicle XI Shipbuilding: Vol 43 (2020), ISSN 1221-4620, e-ISSN 2668-3156

10. Liviu Andrei Moise, Gabriela Alexandra Albu, Eugen Gavan, **Costel Iulian Mocanu**, "A NEW ICEBREAKER FOR INLAND WATER CONCEPT", "Annals of "Dunarea de Jos" University of Galati. Fascicle XI Shipbuilding: Vol 43 (2020), ISSN 1221-4620, e-ISSN 2668-3156
11. Eugen Gavan, Violeta Mihaela Hogas, Florin Renardo Teodor, **Costel Iulian Mocanu**, "COMPARATIVE STUDY OF THE CUTTING SHAPE FROM THE REINFORCED ELEMENTS ON THE SHIP BODY STRUCTURE
12. ", "Annals of "Dunarea de Jos" University of Galati. Fascicle XI Shipbuilding: Vol 43 (2020), ISSN 1221-4620, e-ISSN 2668-3156
13. Liviu Galatanu, Andreea Georgiana Darie, Eugen Gavan, **Costel Iulian Mocanu**, "STRESS AND STRAIN ANALYSIS THAT OCCURS IN THE STRUCTURE OF A SECTION AND IN ITS LIFTING INSTALLATION, DURING THE LIFTING AND TURNING MANEUVERS", "Annals of "Dunarea de Jos" University of Galati. Fascicle XI Shipbuilding: Vol 43 (2020), ISSN 1221-4620, e-ISSN 2668-3156
14. Costel Ungureanu, **Costel Iulian Mocanu**, "INFLUENCE OF THE HYDROFOIL INCLINATION ANGLE AT FREE SURFACE FLOW AROUND JUNCTIONS", "Annals of "Dunarea de Jos" University of Galati. Fascicle XI Shipbuilding: Vol 43 (2020), ISSN 1221-4620, e-ISSN 2668-3156
15. Costel Ungureanu, **Costel Iulian Mocanu**, "VERIFICATION AND VALIDATION STUDY FOR A HYDROFOIL MOUNTED ON A PLATE", "Annals of "Dunarea de Jos" University of Galati. Fascicle XI Shipbuilding: Vol 43 (2020), ISSN 1221-4620, e-ISSN 2668-3156
16. GABRIEL G. CONDURACHE , RALUCA MOCANU, KAMEL EARAR, **COSTEL IULIAN MOCANU**, Practical aspects between the cinematics of the masticatory system and biomechanical devices , Romanian Journal of Medical and Dental Education, Vol. 9, No. 3, 2020, pp:88-94; <http://www.journal.adre.ro/practical-aspects-between-the-cinematics-of-the-masticatory-system-and-biomechanical-devices/>
17. Liviu Galateanu, Matei Cosmin Baci, Alin Pohlca, **Costel Iulian Mocanu**, "The mesh influence in fluid flow",
18. Alin Pohlca, Matei Cosmin Baci, Liviu Galateanu, **Costel Iulian Mocanu**, "The influence of distance between the floats of catamaran hull", "Annals of "Dunarea de Jos" University of Galati. Fascicle XI Shipbuilding: Vol 42 (2019), ISSN 1221-4620, e-ISSN 2668-3156
19. Liviu Andrei Moise, Costica Hogas, Leonard Domnisoru, **Costel Iulian Mocanu**, "Global strength analysis for a split hopper barge subject to head equivalent design wave", "Annals of "Dunarea de Jos" University of Galati. Fascicle XI Shipbuilding: Vol 42 (2019), ISSN 1221-4620, e-ISSN 2668-3156
20. Costel Ungureanu, **Costel Iulian Mocanu**, "Wing body junctions in ship hydrodynamics", "Annals of "Dunarea de Jos" University of Galati. Fascicle XI Shipbuilding: Vol 42 (2019), ISSN 1221-4620, e-ISSN 2668-3156
21. Adrian Caramatescu, **Costel Iulian Mocanu**, "Review of composite materials applications in marine industry", "Annals of "Dunarea de Jos" University of Galati. Fascicle XI Shipbuilding: Vol 42 (2019), ISSN 1221-4620, e-ISSN 2668-3156
22. Matei Cosmin Baci, Liviu Galatanu, **Costel Iulian Mocanu**, Razvan Bidoae, "Annals of "Dunarea de Jos" University of Galati. Fascicle XI Shipbuilding: Vol 41 (2018)
23. Costică Hogaș, Liviu Andrei Moise, **Costel Iulian Mocanu**, Eugen Găvan, "Numerical study using CFD methods of the shapes of a sport boat with the hull made of aluminum", Annals of "Dunarea de Jos" University of Galati. Fascicle XI Shipbuilding: Vol 41 (2018)
24. Matei Cosmin Baci, Liviu Galatanu, **Costel Iulian Mocanu**, 2017, "Numerical study CFD of "Fancat" catamaran's shapes", The Annals of „Dunarea de Jos” University of Galati, Fascicle XI - Shipbuilding, Galati University Press, ISSN 1221-4620
25. Matei Cosmin Baci, Liviu Galatanu, **Costel Iulian Mocanu**, 2017, "Software numerical study of the stresses that appear in the "Fancat" catamaran's structure in calm water", The Annals of „Dunarea de Jos” University of Galati, Fascicle XI - Shipbuilding, Galati University Press, ISSN 1221-4620
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#### RESEARCH AND DEVELOPMENT GRANTS WON BY COMPETITION

- |    |   |   |                      |
|----|---|---|----------------------|
| 1. | <b>Grant PN II-CDI P4-</b><br>Parteneriate în domenii<br>prioritare 2008-2011 | <i>„Platformă tehnologică pentru construcția miniroboților subacvatici telecomandați prin cablu, utilitari și de agreement”</i>   | Membru in<br>proiect |
| 2. | <b>Grant 1996-1998</b>  | <i>„Studies and researches regarding the designing of a type of ship (Modelling and calculations of twist resistance, at shearing, static and dynamic response of the shafts).”</i> | Membru in<br>proiect |

#### RESEARCH-DEVELOPMENT CONTRACTS CONCLUDED WITH THE ECONOMIC ENVIRONMENT

- |    |                   |   |                   |
|----|-------------------|---|-------------------|
| 1. | Contract 102/1986 | <i>„Substantiation of requests regarding the building of low weight propellers”,<br/>Beneficiary: RNR Bucharest 1986.</i>   | Membru            |
| 2. | Contract 93/1988  | <i>„Static and dynamic measurements: board crane 1978”.<br/>Beneficiary: IMN Galați 1988</i>  | Membru            |
| 3. | Contract 124/1988 | <i>„Theoretical and experimental researches regarding the stress states within the structure of the metallic object of ships as result of the welding technological methods”,<br/>Beneficiary: ICEPRONAV Galați 1988-1989</i> | Membru            |
| 4. | Contract 58/1989  | <i>„Substantiation of RNR norms and recommendations concerning the centring of shafts”,<br/>Beneficiary: RNR Bucharest 1989-1992</i>  | Membru            |
| 5. | Contract 59/1989  | <i>„Substantiation of RNR requests concerning the axial vibrations of shafts”.<br/>Beneficiary: RNR București 1989-1993</i>   | Membru            |
| 6. | Contract 126/1993 | <i>Calculation methodology for manipulating the plane and volume sections in 2 Mai Shipyard Mangalia.<br/>Beneficiary: Ș.N. Mangalia 1993</i>   | Director contract |
| 7. | Contract 201/1994 | <i>„Implementation of materials trial procedures, according to the quality assuring system, having as basis the cold rolled steel strips production”<br/>Beneficiary: Galfindband SA Galați 1994-1998</i>                     | Director contract |



8.	Contract 63/1995	„Finding the manoeuvre forces before repairs and equilibration of manoeuvres – centring of masts after repairs on Mircea Training Ship”. Beneficiary: SANAB Brăila 1995.	Director contract
9.	Contract 91/1995	„Study on the transfer and launching of 16000 tdw chemical tanker”. Beneficiary: S.N. Tulcea 1995.	Director contract
10.	Contract 33/1996	„Measurements of twisting vibrations at river pusher tug” Beneficiary: SANAB Brăila 1996.	Director contract
11.	Contract 79/1996	„Study of collision effect on the metal structure of ships and establishing a calculation way of the resistance capacity of the hull elements in the area of impact to prevent leaking from tanks, respectively the water pollution” Beneficiary: ICEPRONAV Galați, 1996	Director contract
12.	Contract 167/1997	„Study of hydrodynamic forces that operate on the ship hull which operates with drift angle and angular swing speed” Beneficiary: ICEPRONAV Galați 1997.	Membru
13.	Contract 212/1998	„Study of the tension state and deformation in the shafts of 39.000 tdw tanker.” Beneficiary: Ș.N Galați SA	Director contract
14.	Contract 224/1998.	„Documentation regarding the experimental stand and the data acquisition equipment in order to carry out experimental shock trials on elastic models with big misalignments. Methodology regarding the carrying out of trials” Beneficiary: ICEPRONAV SA Galați.	Director contract
15.	Contract 233/1998.	„Experimental finding of traction breaking resistance, bending breaking resistance and of the longitudinal elasticity module for the PAFS fibre glass polyester material.” Beneficiary: SPAT SA Galați.	Director contract
16.		„Numeric simulation of free surface floating – investigation of wave-breaking phenomenon” Beneficiary: Hiroshima University by ANSTI, 1999.	Membru
17.		„Elaboration of programs set for the naval hydrodynamics” Beneficiary: CNCISIS București, 1999.	Membru
18.	Contract 241/1999.	„Shock trials on the simplified experimental model of a deck crane”. Beneficiary: ICEPRONAV SA Galați.	Director contract
19.	Contract 269/2000	„Numeric simulations for the DELFIN profile, with application in the shipbuilding field. Numeric simulations within BRAKE project (complex installation to protect against storms, energy production and environment protection)” Beneficiary: S.C. ICEPRONAV S.A. Galați.	Membru
20.	Contract 273/2000	„Testing and calibration of mathematic model. Elaboration of simulation informatics system” Beneficiary: The National Scientific Research Institute in the Labour and Social Security Field, INCSMPS București.	Membru
21.	Contract 305/2001	„Calculation grids. Algorithm for generating adaptive grids - Ac4576/022.101.102.” Beneficiary: S.C. ICEPRONAV S.A. Galați.	Membru
22.	Contract 275/2001	„Hull Form Optimisation for the Vessel CV 1100-Plus - AC 4510.1.6.” Beneficiary: SCHIFFKO GmbH (Germany) by ICEPRONAV Galați.	Membru
23.	Contract 303/2001	„Product/Chemical Oil Tanker – 47500 tdw - Ac4563. Model Tests and Lines Optimisation. Hull Form Optimisation with CFD” Beneficiary: DAMEN Hoogezand (Netherlands) by ICEPRONAV Galați.	Membru