

## PERSONAL INFORMATION

MOCANU N. Costel Iulian



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

POSITION /  
OCCUPATIONAL FIELD

Professor “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. Domneasca 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, freash 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, freash 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, freash water and sludge systems</i></p> <p><i>Type or sector of activity: Shipbuilding</i></p>	

**SPECIALIZATIONS IN ROMANIA**

1989-1990 2006	<p><i>Electrical Tensometry course at the Polytechnic University of Bucharest</i></p> <p><i>Specialization course for tensometric measurements at pressure tanks at ISCIR Bucharest</i></p>
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**PERSONAL COMPETENCE**

Native language	Romanian
Other known foreign languages (Self evaluation)	

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Join the conversation	Oral speech	
English	C1	C1	C1	C1	C1
French	B2	B2	B2	B2	B2

*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 Faculty of Naval Architecture;*
- *Organizational spirit (in the management of the Faculty of Naval Architecture, 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, ARSOVM Constanța.*
- *Member of the organizing team of the 9th 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;
- 9 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
- 101 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: 31.10.2022



## 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.
2. Ceangă, V., **Mocanu, C.I.**, Ungureanu, C, 2017, " *Instalații navale de bord*", Editura Didactică și Pedagogică, ISBN 978-606-31-0353-7, București
3. **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
4. **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
5. **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
6. 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
7. **Mocanu, C. I.**, 2005, "*Metode moderne în ingineria mecanică. Diferențe finite*", Editura Zigotto, ISBN 973-87793-3-2, Galați
8. **Mocanu, C. I.**, 2005, "*Rezistența Materialelor. Ediția a II a revizuită și completată.*", Editura Zigotto, ISBN 973-87793-2-4, Galați
9. Ceangă, V., **Mocanu, C.I.**, Teodorescu, 2003, "*Dinamica sistemelor de propulsie*", Editura Didactică și Pedagogică, ISBN 973-30-2310-8, București
10. **Mocanu, C.I.**, Gavrilăscu, I., 1999, "*Rezistența materialelor*", "Low Danube" University Foundation Publishing House, Galați.
11. Gavrilăscu, I., **Mocanu, C.I.**, 1999, "*Analiză cu elemente finite*", "Low Danube" University Foundation Publishing House, Galați.

### SCIENTIFIC ARTICLES

#### ISI indexed

1. **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.
2. **Costel Iulian MOCANU**, Alin POILCA, Liviu MOISE, Daniela Ioana TUDOSE, 2021, „*Comparative studies on the behaviour of flat panels made of GRP under static and dynamic loads*”, Revista de Materiale Plastice, Vol. 8, Online ISSN 2668-8220, Print ISSN 0025-5289, <https://doi.org/10.37358/Mat.Plast.1964>, <https://revmaterialeplastice.ro>
3. 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
4. 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
5. 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.**)
6. I. Chirică, **C. Mocanu**, L.D. Stoicescu, 1998, „*The naval shaft vibration*”, IMEKO TC3/APMF, Theory and practice, Taejon, Korea, 14-18 September 1998
7. Caramatescu, A., **Mocanu, C.I.**, Păcuraru, F.D., Jagite, 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 Gavrilăscu, 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. **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>
2. 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>
3. 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>
4. 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
5. 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
6. 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
7. 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”, ” Annals of ”Dunarea de Jos” University of Galati. Fascicle XI Shipbuilding: Vol 43 (2020), ISSN 1221-4620, e-ISSN 2668-3156
8. 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
10. 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
11. 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
12. 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/>
13. Liviu Galateanu, Matei Cosmin Baciu, Alin Pohlca, **Costel Iulian Mocanu**, “The mesh influence in fluid flow”,
14. Alin Pohlca, Matei Cosmin Baciu, 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

15. 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
16. 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
17. 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
18. Matei Cosmin Baci, Liviu Galatanu, **Costel Iulian Mocanu**, Razvan Bidoae, ”, Annals of ”Dunarea de Jos” University of Galati. Fascicle XI Shipbuilding: Vol 41 (2018)
19. 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)
20. 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
21. 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
22. Costică Hogaș, Alin Pohlcă, **Costel Iulian Mocanu**, Ioan Bosoancă, 2017, “Noise pollution maps in the perimeter of Galati main port”, The Annals of „Dunarea de Jos” University of Galati, Fascicle XI - Shipbuilding, Galati University Press, ISSN 1221-4620
23. Alin Pohlca, Liviu Galateanu, **Costel Iulian Mocanu**, 2016, “*Evaluation of trimaran bow shapes in head seas towing tank tests and results*” , The Annals of “Dunarea de Jos” University of Galati, Fascicle XI-Shipbuilding, Galati University Press, Year XXXIV, ISSN 1221-4620.
24. Liviu Galateanu, Alin Pohlca, **Costel Iulian Mocanu**, 2016, “*Evaluation of trimaran side hull angles on forward resistance*”, The Annals of “Dunarea de Jos” University of Galati, Fascicle XI - Shipbuilding, Galati University Press, Year XXXIV, ISSN 1221-4620.
25. Madalina Cristina Onica, Stefan Florescu, **Costel Iulian Mocanu**, Eugen Gavan, 2016, “*Numerical simulation of heat transfer behaviour after temperature modification*” , The Annals of “Dunarea de Jos” University of Galati, Fascicle XI - Shipbuilding, Galati University Press, Year XXXIV, ISSN 1221-4620.
26. Costica Hogas, Adrian Bogdan Ionita, Valentin Claudiu Papuc, Mihai Sorin Gavrilă, **Costel Iulian Mocanu**, 2016, “*Stress tension and deformation study in teeth of a cylindrical spur gears*” , The Annals of “Dunarea de Jos” University of Galati, Fascicle XI - Shipbuilding, Galati University Press, Year XXXIV, ISSN 1221-4620.
27. Matei Cosmin Baci, Bogdan Ioan Bahrim, Cristina Birladeanu, Cristina Serea, **Costel Iulian Mocanu**, 2016, “*The study of the crack apparition and propagation on a 60 cubic meters steel tank*”, The Annals of “Dunarea de Jos” University of Galati, Fascicle XI - Shipbuilding, Galati University Press, Year XXXIV, ISSN 1221-4620,.
28. Madalina Prodan, Vladut Alexandru Vicol, Adrian Caramatescu, **Costel Iulian Mocanu**, 2016, “*State of stress in the hull of a boat made from GRP to enhance the resistance of body structure*”, The Annals of “Dunarea de Jos” University of Galati, Fascicle XI - Shipbuilding, Galati University Press, Year XXXIV, ISSN 1221-4620, 2016.
29. Prodan, M., Vicol, V.A., Caramatescu, A., **Mocanu, C.I.**, „State of stress in the hull of a boat made from GRP to enhance the resistance of body structure”, Analele Universității „Dunărea de Jos”, Fascicula XI - Shipbuilding, p. 125-129, ISSN 1221-4620, 2016;
30. Madalina Prodan, Vladut Alexandru Vicol, **Costel Iulian Mocanu**, 2016, “*State of stress of a hull structure rammed by the bow of another vessel*”, The Annals of “Dunarea de Jos” University of Galati, Fascicle XI - Shipbuilding, Galati University Press, Year XXXIV, ISSN 1221-4620.
31. Mădălina Prodan, Vlăduț-Alexandru Vicol, **Costel Iulian Mocanu**, 2015, “*Numerical simulation of a projectile that runs through a plane structure strengthened with one-way stiffeners*”, THE ANNALS OF “DUNAREA DE JOS” UNIVERSITY OF GALATI FASCICLE XI – SHIPBUILDING, Galati University Press, ISSN 1221-4620,
32. Madalina Cristina Onica, Madalin Marius Costea, **Costel Iulian Mocanu**, 2015, “*Numerical analysis of the stress that occurs in the crane structure of 325 tf Metalna to manoeuvre the block sections of the ship in the Damen Shipyard Galati*”, THE ANNALS OF “DUNAREA DE JOS” UNIVERSITY OF GALATI FASCICLE XI – SHIPBUILDING, Galati University Press, ISSN 1221-4620.
33. Cristea Anișoara-Gabriela, **Costel Iulian Mocanu**, 2014, “*Elastic and plastic behaviour of ship structures. Comparisons between optimized and unoptimized structures*”, The Annals of “Dunarea de Jos” University of



- Galati, Fascicle XI-Shipbuilding (ISSN 1221-4620), pp.27, Galati University Press, (CNCSIS B+, cod 222, BDI: CSA), <http://www.naoe.ugal.ro>
34. Mihaela Costache, George Jagite, **Costel Iulian Mocanu**, 2014, “*Numerical Analysis Of Corrosion Influence On Ship Strength*”, The Annals Of “Dunarea De Jos” University Of Galati, Fascicle IX. Metallurgy And Materials Science ISSN 1453 – 083x, (20 pct./3 autori= 6,67 pct.)
  35. *Mihaela Costache, Costel Iulian Mocanu*, 2014, “*Corrosion analysis of comercial ships*” - THE ANNALS OF “DUNAREA DE JOS” UNIVERSITY OF GALATI, FASCICLE IX. METALLURGY AND MATERIALS SCIENCE ISSN 1453 – 083X, (20 pct./2 autori= 10 pct.)
  36. Alina Modiga, **Costel Iulian Mocanu**, Vladut Vicol , 2014, “*Determination by measurements of parameters of type 3212 launch tugs*” , The Annals of “Dunarea de Jos” University of Galati, Fascicle XI - Shipbuilding, Year XXXIV, ISSN 1221-4620.
  37. Cristea Anișoara-Gabriela, **Costel Iulian Mocanu**, 2013, „*Analysis of the endurance strength and calculation of the cumulative damage factor for double bottom structure*”, The Annals of “Dunarea de Jos” University of Galati, Fascicle XI-Shipbuilding (ISSN 1221-4620), pp.85, Galati University Press, (CNCSIS B+, cod 222, BDI: CSA), <http://www.naoe.ugal.ro>
  38. Tocu Florentina, **Costel Iulian Mocanu**, 2013, “*Calculation of the stress concentration factor in case of T-shape profileade of GRP*”, The Annals of “Dunarea de Jos” University of Galati Fascicle XI – Shipbuilding, Anul XXXI pp.93-98, ISSN 1221-4620 <http://www.naoe.ugal.ro> (20 pct./2 autori= 10 pct.)
  39. Cristea Anișoara-Gabriela, **Costel Iulian Mocanu**, 2013, “*Analysis of the endurance strength and calculation of the cumulative damage factor for double bottom structure*”, The Annals of “Dunarea de Jos” University of Galati Fascicle XI – Shipbuilding, ISSN 1221-4620 PAGES 85-92,
  40. Tocu Florentina, **Costel Iulian Mocanu**, Dobrot Oana-Mirela, 2013, “*Determination of deformations in a structure element made of stratified composite materials in dynamic regim*”, International Multidisciplinary, 12th Scientific GeoConference S G E M 2013 - "Modern Management of Mine Producing, Geology and Environmental Protection" -, Volumul III, pp. 87-94, ISSN (1314-2704), 17 - 23 June, 2013, Albena, Bulgaria, (5 pct./3 autori= 1,67 pct.)
  41. Tudor Dobrota, Vladut-Alexandru, **Costel Iulian Mocanu**, 2013, ”*The influence of hip radius performed on stiffeners used in shipbuilding with effects opened on structure stress which may appear around boundaries*, THE ANNALS OF “DUNAREA DE JOS” UNIVERSITY OF GALATI FASCICLE XI – SHIPBUILDING. ISSN 1221-4620 PAGES 155-160,
  42. Bianca Cristea, **Costel Iulian Mocanu**, 2013, “*Stress calculation in the helicopter platform and supporting structure on the fpso units*”, THE ANNALS OF “DUNAREA DE JOS” UNIVERSITY OF GALATI FASCICLE XI – SHIPBUILDING. ISSN 1221-4620 PAGES 41-50.
  43. Nechita Manuela, **Mocanu Costel-Iulian**, Popescu Gabriel, 2013, “*The influence of shell’s shape in ship design*” , Constanta Maritime University Annals Year XIV, Vol.19.
  44. Oana-Mirela Dobrot, **Costel Iulian Mocanu**, 2012, „*Study of the stress state around a crack in welding link between tubular beams*”, *ModTech International Conference-New face of TMCR Modern Technologies, Quality and Innovation- New face of TMCR 24-26 May 2012, Sinaia, Romania, Volume II, nr.285 -288.*
  45. Florentina Tocu, **Costel Iulian Mocanu**, 2012, „*Study on the layer strain state in delaminations*”, *ModTech International Conference-New face of TMCR Modern Technologies, Quality and Innovation- New face of TMCR 24-26 May 2012, Sinaia, Romania, Volume II, nr.957 – 960.*
  46. Florentina Tocu, **Costel Iulian Mocanu**, Ovidiu-Alexandru Donu., 2012, „ *The determination of the cumulative deterioration factor in the composite materials fatigue strain*”, *ModTech International Conference-New face of TMCR Modern Technologies, Quality and Innovation- New face of TMCR 24-26 May 2012, Sinaia, Romania, Volume II, nr.961 – 965.*
  47. Mirel Balan, Dumitru Lavrente, Manuela Nechita, Andreea Muscalu, **Costel Iulian Mocanu** ,2012, „*The plate shape influence over the stress variation under the impact loads*”, *ModTech International Conference-New face of TMCR Modern Technologies, Quality and Innovation- New face of TMCR 24-26 May 2012, Sinaia, Romania, Volume II, nr.69 – 72.*
  48. Cristea Anișoara-Gabriela, **Costel Iulian Mocanu**, 2012, „*Experimental studies and computer simulation of stress in plates with round corners cuttings*” , International Journal of Modern Manufacturing Technologies ISSN 2067–3604, Vol. IV, No. 1 / 2012, pp. 47, (BDI), <http://www.modtech.ro/2012>
  49. Dobrot O.M., **Mocanu C.I.**, 2012, „*Study of the Stress Variation in the Components of Offshore Rig Legs in various Collision Situations*”, The Annales of „Dunarea de Jos” University of Galati, Fascicle V – Technologies in Machine Building, Vol. I, Year XXX, ISSN 1221-4566.
  50. Tocu F., **Mocanu C.I.**, 2012, „*Characterization of GRP Considering the Mechanical Material Properties*”, The Annales of „Dunarea de Jos” University of Galati, Fascicle V – Technologies in Machine Building, Vol. I, Year XXX, ISSN 1221-4566.

51. Oana – Mirela DOBROT, **Costel Iulian MOCANU**, 2011, „*Influence of corrosion on the state of stress which appear in the legs of a offshore structure*”, The Annals of “Dunarea de Jos” University of Galati, Fascicle IX, Metallurgy and Materials Science, Years XXIX (XXXIV) , Special ISSUE, ISSN 1443-083X, p. 222 – 229.
52. Florentina Tocu, **Costel Iulian Mocanu**, Viorel Silviu Lefter, 2011, „*Influence of cycle number on the fatigue resistance of fibreglass reinforced polyester*”, The Annals of “Dunarea de Jos” University of Galati, Fascicle IX, METALLURGY AND MATERIALS SCIENCE, ISSN 1453-083X, pag. 188.
53. Dobrot Oana –Mirela, Tocu Florentina, **Mocanu Costel Iulian**, 2011, „*Numerical and experimental method for 2500 TF. align press columns*”, “Vasile Alecsandri” University of Bacau, The 9th International Conference OPROTEH 2011, May 24-26, 2011.
54. Dobrot Oana –Mirela, **Mocanu Costel Iulian**, 2011, „*Variation of stress created by waves and maritime currents in a leg of offshore platform*”, “ Vasile Alecsandri” University of Bacau, The 9th International Conference OPROTEH 2011, May 24-26.
55. Florentina Tocu, **Costel Iulian Mocanu** , 2011, „*Comparative study of stress ans trains that occur in structural elements made of composite materials considering the model with and without layers*” , “Vasile Alecsandri” University of Bacau, International Conference OPROTEH 2011, 24-26 mai.
56. F. Tocu, O.M. Dobrot, **C.I. Mocanu**, 2011, „*Influence of noise on the working environment on board ships*” , B.E.N.A, organize the : INTERNATIONAL ENVIRONMENTAL CONFERENCE “ENVIRONMENTAL CAPACITY BUILDING” 11-13 November 2011, Bucharest, Romania
57. Florentina Tocu, Oana - Mirela Dobrot, Viorel Silviu Lefter, **Costel Iulian Mocanu**, 2011, „*Comparative study to improve the mechanical characteristics of strenght on structures made of fibbers reinforced glas to the static and dynamic loads*”, DANUBIA – ADRIA – SYMPOSIUM. 28 sep- 01oct 2011
58. Tocu Florentina, **Mocanu Costel Iulian**, Costache Mihaela, 2011, „*The Influence Of Profile Type On Stress Variation In Stratified Composite Materials*”, The Annals Of “Dunarea de Jos” University Of Galati, Fascicle XI - Shipbuilding, Galati University Press, ISSN 1221-4620, pp. 73-78.
59. Tocu Florentina, Cristea Anișoara-Gabriela, **Costel Iulian Mocanu**, Lefter Silviu Viorel, 2011, „*Comparative study to improve the mechanical characteristics on impact on plates made of fibbers reinforced glass*”, Constanta Maritime University Annals, Year XI, Vol.16 , ISSN 1582-3601, pp. 185-190, „Nautica” Publishing House, 2011 (CNCSIS B+), <http://cmu-edu.eu/anale.html>
60. Cristea Anișoara-Gabriela, Tocu Florentina, **Costel Iulian Mocanu**, 2011, „*Computer study of stress state on a single floor plate using finite element method*”, Constanta Maritime University Annals, Year XI, Vol.16, ISSN 1582-3601, pp. 117-124, „Nautica” Publishing House, (CNCSIS B+), <http://cmu-edu.eu/anale.html>
61. Florentina Tocu, **Costel Iulian Mocanu**, Viorel Silviu Lefter, 2011, „*Influence of cycle number on the fatigue resistance of fibreglass reinformced polyester*”, The Annals of „Dunarea de Jos” University of Galati, Fascicle IX – Metallurgy and Materials Science, Year XXIX, ISSN 1453-083X.
62. Oana Mirela Dobrot, **Costel Iulian Mocanu**, , 2011, „*The Influence of corrosion on the state of stress which appear in the legs of a offshore structure*”, Annals of „Dunarea de Jos” University of Galati, Fascicle IX – Metallurgy and Materials Science, Year XXIX, ISSN 1453-083X.
63. Oana-Mirela DOBROT, **Costel Iulian MOCANU**, 2010, „*Influence of corrosion on the fatigue resistance of steel structures*”, INTERNATIONAL SCIENTIFIC WORKSHOP FOR STUDENTS, ISSN 2068-8652, pag.113-121, (Constanta)
64. Oana – Mirela Dobrot, **Costel Iulian Mocanu**, 2010, „*Numerical and experimental stress study on resonance in an offshore platform leg*” , The Annals of “Dunarea de Jos” University of Galati, Fascicle XI - SHIPBUILDING, Years XXVIII, ISSN 1221-4620, p. 159 – 166.
65. Oana – Mirela Dobrot, **Costel Iulian Mocanu**, 2010, „*Study of the destruction influence of elements from offshore platform leg on stress and vibration modes*”, Analele Universitatii Maritime din Constanta, Anul XI, Volumul 14, ISSN 1582-3601, p. 25 – 30.
66. Florentina Tocu, **Costel Iulian Mocanu**, Viorel Silviu Lefler, 2010, „*Experimental study on the influence of cycle number at variable load on the mechanical, characteristics of GRP*”, The Annals of “Dunarea de Jos” University of Galati, Fascicle XI, SHIPBUILDING, ISSN 1221-4620, pag.191.
67. Florentina Tocu, **Costel Iulian Mocanu**, Viorel Silviu Lefter, 2010, „*The number of layers influence for composite materials subjected to fatigue at the request of force breaking to axial load*”, Constanta Maritime University Annals, ISSN 1582-3601, pag. 101.
68. **Costel Iulian Mocanu**, Ovidiu Niculet, Bianca Cristea, Adrian Coman, 2009, „*Study of Tension Variation for the Shock of GRP Panels*” , The Annals of „Dunarea de jos” University of Galati, Fascicle XI, - Shipbuilding, Year XXVII, ISSN 1221-4620.
69. **Costel Mocanu**, Doina Boazu, 2008, „*Stress and Deformations in a Submarine Vehicle Porthole*”, the Annals of “Low Danube” University of Galati, Fascicle XI, Shipbuilding, ISSN 1221-4620.

70. **Costel Mocanu**, Doina Boazu, 2008, „*Stress Measurement for a 1000 m<sup>3</sup> Spherical Tank Using the Strain Gauge Method* „, the Annals of “Low Danube” University of Galati, Fascicle XI, Shipbuilding, ISSN 1221-4620.
71. **Costel Mocanu**, Doina Boazu, 2008, „*Stress Measurement for a Spherical Tank of 1000 m<sup>3</sup> on Hydraulic tests*”, the Annals of “Low Danube” University of Galati, Fascicle X, Applied Mechanics, ISSN 1224-5615.
72. **Costel Mocanu**, Doina Boazu, Liviu Dan Stoicescu, Adrian Bejan, 2008, „*Stress in a Submarine Vehicle Porthole using Finite difference method*”, the Annals of “Low Danube” University of Galati, Fascicle X, Applied Mechanics, ISSN 1224-5615.
73. **Costel Mocanu**, Doina Boazu, 2007, „*Dynamic stress in the Structure of a Floating Excavator Using FEM*”, the Annals of “Low Danube” University of Galati, Fascicle XI, Shipbuilding, ISSN 1221-4620.
74. Sandita Pacurar, **Costel Mocanu**, 2007, „*Numerical and experimental Results on the Corrosion Effect on Beam Members* „, the Annals of “Low Danube” University of Galati, Fascicle XI, Shipbuilding, ISSN 1221-4620.
75. **Mocanu Costel Iulian**, Boazu Doina, Petrea Ionel, Blumer Sorin, 2006, „*Establish the stresses in the structure of the floating excavator and in the elements of the excavation for the static and dynamic loadings*”, Modelling and optimization in the machines building field, Vol. #, MOCM 12- Editura Alma Mater, Bacau.
76. Găvan E., **Mocanu C.I.**, Dimache A, 2005, „*True strain-stress curve in numerical modelling for thick plates forming the ship hull*”. TMCR 2005, volume 1, pages 396-399, Chişinău, ISBN 9975-9875-4-0.
77. **Costel Iulian Mocanu**, Doina Boazu, 2005, „*Stress and Deformations in the Structure of a Floating Excavator using FEM*”, the Annals of “Low Danube” University of Galati, Fascicle X, Applied Mechanics, ISSN 1221-4612.
78. **Costel Iulian Mocanu**, Doina Boazu, 2005, „*Dynamic stress in the Structure of a Floating Excavator using FEM*”, the Annals of “Low Danube” University of Galati, Fascicle X, Applied Mechanics, ISSN 1221-4612.
79. Viorel Păunoiu, Mircea Modiga, **Costel Iulian Mocanu**, 2003, „*Experimental study of the tension state when radially compressing a dust disk*”, Annals of “Low Danube” University in Galaţi, Year “XXI (XXVI)”.
80. **C.I. Mocanu**, D. Boazu, 2002, „*An assessment method of the drawing force*”, Annals of “Low Danube” University in Galaţi, Year XX (XXV)
81. **C. I. Mocanu**, I. Chirică, L.D. Stoicescu, 2000, „*On the gyroscopic effects in the dynamic analysis of the naval shafts*”, Computing no. 11, 2000
82. **C. I. Mocanu**, I. Chirică, L.D. Stoicescu, 2000, „*Calculations and measurements in dynamic regime to find out the own pulsations of the naval shafts*”, The 8<sup>th</sup> International Conference Tehnonav 2000, Bucureşti-Constanţa 1-3 June 2000
83. **C. I. Mocanu**, I. Chirică, M. Modiga, L.D. Stoicescu, 2000, „*Static calculations and measurements concerning the after-centring response of naval shafts*”, The 8<sup>th</sup> International Conference Tehnonav 2000, Bucureşti-Constanţa 1-3 June 2000
84. D. Boazu, I. Gavrilăscu, **C.I. Mocanu**, 2000, „*A Study of Geared Shafts System Using the Finite Element Method*”, The 5<sup>th</sup> International Conference of Finite and Boundary Elements, ELFIN 5, Oradea, 25-27 May 2000
85. I. Chirică, **C.I. Mocanu**, L.D. Stoicescu, 1999, „*Naval Shaft Analysis after Alignment*”, Works of symposium Danubia-Adria, Cluj-Napoca, 24 May 1999.
86. **C.I. Mocanu**, I. Chirică, R. Belea, 1999, „*Naval Shaft Bending Vibration Analysis*”, Works of symposium Danubia-Adria, Cluj-Napoca, 24 May 1999.
87. **C.I. Mocanu**, I. Gavrilăscu, I. Chirică, 1999, „*Optimisation of bending centring of naval shafts*”, Gazette of “Petrol-Gas” University, Ploieşti, Volume LI – 1999, No. 1.
88. **I.C. Mocanu**, I. Chirică, 1999, „*Studies on the after-centring response of naval shafts*”, Gazette of “Petrol-Gas” University, Ploieşti, Volume LI – 1999, No. 1.
89. **I.C. Mocanu**, D. Boazu, 1999, „*Considering the width of bearings when calculating reactions that appear in the bearings in the stern frame pipe of the naval shafts*”, Gazette of “Petrol-Gas” University, Ploieşti, Volume LI – 1999, No. 1.
90. **I.C. Mocanu**, I. Chirică, R. Belea, 1999, „*Identification of bending vibrations of naval shafts*”, Gazette of “Petrol-Gas” University, Ploieşti, Volume LI – 1999, No. 1.
91. Sorin Blumer, **Costel Iulian Mocanu**, 1998, „*Study of shock behaviour due to the functional transitory regime of systems bahing large displacements*”, The Annals of „ Dunarea de Jos” University of Galati, Fascicle X - Applied Mechanics, Year CVI.
92. **C.I. Mocanu**, I. Gavrilăscu, D. Boazu, I. Chirică, 1997, „*Finding the optimum position of the ship on syncrolift for launching*”, The 27<sup>th</sup> session of scientific communication with international participation, Military Technical Academy Bucharest, Volume 8, Bucharest.



93. I. Chirică, **C. I. Mocanu**, I. Gavrilescu, 1997, „*Calculation of the response hull-transfer slide assembly at launching*”, The 26<sup>th</sup> session of scientific communications with international participation, Military Technical Academy Bucharest, Volume. 8, Bucharest.
94. V. Ceangă, A. Lungu, **C. Mocanu**, 1995, „*Bent centring methods at naval shafts lines in order to optimize the bearing stress*”, Works of Symposium “Special and Unconventional Technologies”, Galați, 12-13 October..
95. **I.C. Mocanu**, I.Chirică, S.D. Mușat, L.D. Stoicescu, 1995, „*The whirling effects influence on the coupled vibration of the naval shaft*”, Works of the 3rd international conference of Finite and Boundary Elements, ELFIN 3, Section 2.1, Constanța, 25-27 May 1995.
96. **C. I. Mocanu**, I. Chirică, S.D. Mușat, L.D. Stoicescu, 1994, „*Modelling of coupling of twisting, transversal and axial vibrations of naval shafts*”, The 18<sup>th</sup> Conference of Solid Materials Mechanics, Volume 1, Constanța, 09-11 June 1994
97. I. Chirică, **C. I. Mocanu**, L.D. Stoicescu, 1994, „*Calculation of tensions and deformations in the turning ship sections process in shipyards*”, The 18<sup>th</sup> Conference of Solid Materials Mechanics, Volume 1, Constanța, 09-11 June 1994.
98. I. Chirică, **C.I. Mocanu**, 1994, „*Modelling of non-linear geometric behaviour of off-shore structures under the action of environment stress*”, The 18<sup>th</sup> Conference of Solid Materials Mechanics, Volume 1, Constanța, 09-11 June 1994
99. S. D. Mușat, **C. I. Mocanu**, I. Chirică, I. Gavrilescu, L.D. Stoicescu, 1993, „*The modelling of coupled vibrations of the naval shafts*”, Works of the 2<sup>nd</sup> National Conference of Finite and Boundary Elements, ELFIN 2, Sibiu, 13-15 May 1993
100. Mircea Modiga, Ionel Gavrilescu, **Costel Iulian Mocanu**, Doina Boazu, 1991, „*Optimisation of centring of naval shafts making use of the Finite Element Method and the linear programming*”, National Conference of Finite and Boundary Elements ELFIN’91, Section II. Cluj-Napoca, 19-21 September 1991
101. Sorin Dumitru Mușat, **Costel Iulian Mocanu**, Ionel Chirică, Liviu Stoicescu, 1991, „*Modelling of constrained vibrations of the shafts lines*”, National Conference of Finite and Boundary Elements ELFIN’91, Section II. Cluj-Napoca, 19-21 September 1991.

#### Not indexed

1. Bogdan Bahrim, Cristina Birladeanu, Cristina Serea, **Costel Iulian Mocanu**, 2017, „*Stress analysis of the ship’s body in the mounting area of the anchor winches for different mooring situations*”, ARHINAV 2017, ISBN 978-973-119-164-2
2. Matei Cosmin Baci, Andreea Georgiana Darie, Daniela Mihaela Loica, **Costel Iulian Mocanu**, 2017, „*Stress analysis in a containership double bottom and in the container structure under the action of different loads*”, ARHINAV 2017, ISBN 978-973-119-164-2
3. Cristina Birladeanu, Cristina Serea, Adrian Caramartescu, **Costel Iulian Mocanu**, 2017, „*Stress analysis of a storage compartment from an oil tanker*”, ARHINAV 2017, ISBN 978-973-119-164-2
4. Costica Hogas, Adrian Bogdan Ionita, Valentin Claudiu Papuc, Mihai Sorin Gavrilă, **Costel Iulian Mocanu**, 2017, „*Numerical analysis of the stress and deformation that occurs in a containership double bottom in case of an accidental load*”, ARHINAV 2017, ISBN 978-973-119-164-2
5. Costica Hogas, Adrian Bogdan Ionita, Valentin Claudiu Papuc, Mihai Sorin Gavrilă, **Costel Iulian Mocanu**, 2017, „*Stress in a hall type anchor’s structure on various loads*”, ARHINAV 2017, ISBN 978-973-119-164-2
6. **C.I.Mocanu**, E.F.Beznea, 2003, „*The Pressure Transducer Analysis*”, Annals of “Low Danube” University in Galați, Year “XXI (XXVI)”.
7. **C.I.Mocanu**, E.F.Beznea, 2004, „*Dynamic Analysis of the Naval Shaft*”, Annals of “Low Danube” University in Galați, “Year XXII (XXVII)” .
8. **Costel Iulian Mocanu**, Ionel Chirică, Sorin Dumitru Mușat, 1994, „*The influence of the gyroscopic moments on the coupling vibrations of the naval shafts*”, Liviu Stoicescu, Annals of “Low Danube” University in Galați, Fascicle “X”, Applied Mechanics, Year “XII (XVII)”, 1994.
9. I. Gavrilescu, **Costel Iulian Mocanu**, D. Boazu, D. Olaru, 1993, „*Reaction Forces Distribution in case of surface supporting of a propeller shaft*”, Works of symposium “Realisations and perspectives in naval industry”, Galați, 28-30 October 1993.
10. L.D. Stoicescu, S. Mușat, I. Chirică, **C. Mocanu**, 1991, „*Problems regarding the naval shafts vibrations*”, 40 years since the foundation of the Mechanic-Naval Institute, Galați, 25-26 October 1991.
11. M. Modiga, V. Ceangă, **C. Mocanu**, A. Lungu, D. Micu, 1989, „*Experimental researches on models of low weigh naval propellers blades resistance*”, Magazine of transports and telecommunications, Year “XVI”, No. 8, Bucharest.

12. M. Modiga, V. Ceangă, **C. Mocanu**, A. Lungu, P. Tăutu, D. Micu, 1989, „Assessment of the participation degree of the longitudinal coamings of hatches at ship's bending”, Magazine of transports and telecommunications, Year “XVI”, No. 8, Bucharest.
13. M. Modiga, R. Lipșa, I.Chirică, **C.I. Mocanu**, L. Domnișoru, P. Donescu, 1989, „Theoretical and experimental analysis on the stress state of the crane JIB MB-1979 during the static and dynamic testing”, Works of the 5<sup>th</sup> National Symposium of Tensiometry, Galați, September 1989.

#### 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   | <i>„Finding the manoeuvre forces before repairs and equilibration of manoeuvres – centring of masts after repairs on Mircea Training Ship”.<br/>Beneficiary: SANAB Brăila 1995.</i>   | Director contract |
| 9.  | Contract 91/1995   | <i>„Study on the transfer and launching of 16000 tdw chemical tanker”.<br/>Beneficiary: S.N. Tulcea 1995.</i>   | Director contract |
| 10. | Contract 33/1996   | <i>„Measurements of twisting vibrations at river pusher tug”<br/>Beneficiary: SANAB Brăila 1996.</i>  | Director contract |
| 11. | Contract 79/1996   | <i>„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”<br/>Beneficiary: ICEPRONAV Galați, 1996</i> | Director contract |
| 12. | Contract 167/1997  | <i>„Study of hydrodynamic forces that operate on the ship hull which operates with drift angle and angular swing speed”<br/>Beneficiary: ICEPRONAV Galați 1997.</i>   | Membru            |
| 13. | Contract 212/1998  | <i>„Study of the tension state and deformation in the shafts of 39.000 tdw tanker.”<br/>Beneficiary: Ș.N Galați SA</i>  | Director contract |
| 14. | Contract 224/1998. | <i>„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”</i>   | Director contract |



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| 15. | Contract 233/1998. | Beneficiary: ICEPRONAV SA Galați.<br>„Experimental finding of traction breaking resistance, bending breaking resistance and of the longitudinal elasticity module for the PAFS fibre glass polyester material.”  | Director contract |
| 16. |                    | Beneficiary: SPAT SA Galați.<br>„Numeric simulation of free surface floating – investigation of wave-breaking phenomenon”  | Membru            |
| 17. |                    | Beneficiary: Hiroshima University by ANSTI, 1999.<br>”Elaboration of programs set for the naval hydrodynamics”   | Membru            |
| 18. | Contract 241/1999. | Beneficiary: CNCISIS București, 1999.<br>„Shock trials on the simplified experimental model of a deck crane”.  | Director contract |
| 19. | Contract 269/2000  | Beneficiary: ICEPRONAV SA Galați.<br>„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)” | Membru            |
| 20. | Contract 273/2000  | Beneficiary: S.C. ICEPRONAV S.A. Galați.<br>„Testing and calibration of mathematic model. Elaboration of simulation informatics system”  | Membru            |
| 21. | Contract 305/2001  | Beneficiary: The National Scientific Research Institute in the Labour and Social Security Field, INCSMPS București.<br>„Calculation grids. Algorithm for generating adaptive grids - Ac4576/022.101.102.”  | Membru            |
| 22. | Contract 275/2001  | Beneficiary: S.C. ICEPRONAV S.A. Galați.<br>„Hull Form Optimisation for the Vessel CV 1100-Plus - AC 4510.1.6.”  | Membru            |
| 23. | Contract 303/2001  | Beneficiary: SCHIFFKO GmbH (Germany) by ICEPRONAV Galați.<br>„Product/Chemical Oil Tanker – 47500 tdw - Ac4563. Model Tests and Lines Optimisation. Hull Form Optimisation with CFD”<br>Beneficiary: DAMEN Hoogezand (Netherlands) by ICEPRONAV Galați.                | Membru            |

