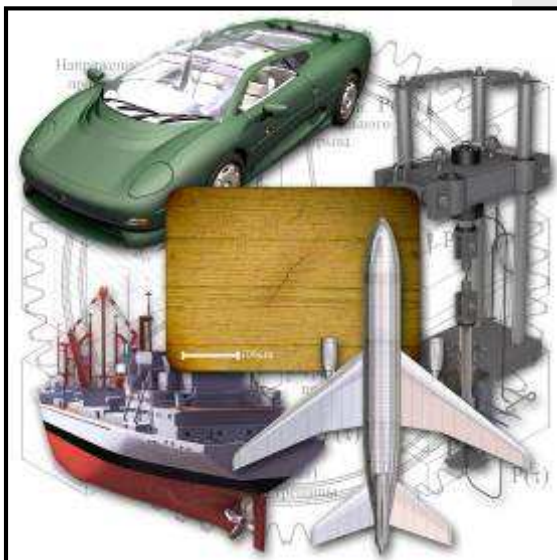


# CURRICULUM VITAE

Roman A. Pochinkov, Assistant Professor, Ph.D. in Mechanical Engineering



Family Name: **Pochinkov**

First Name: **Roman**

Middle Name: **Adolfovich**

Date of birth: **12.09.1983**

Occupied position: **Docent (Assistant Professor) at the Admiral F.F.Ushakov Maritime State Academy**

Academic degree: **Candidate of Science in Mechanical Engineering (Ph.D.)**



Address: **22 Lenin Avenue, apart. 40, Novorossiysk, Krasnodar region, The Russian Federation**

Postal Code: **353910**

Phone (mobile): **+7 (918) 4184758**

Phone (home): **+7 (8617) 716610**

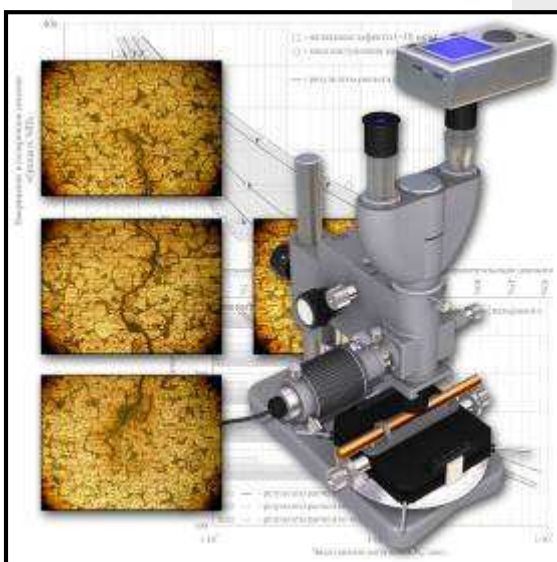
E-mail: [r.pochinkov@mail.ru](mailto:r.pochinkov@mail.ru)

Research interests:

**Fracture mechanics with emphasis on damage accumulation processes in metal structures, fatigue crack growth on initial stages of cyclic loading;**

**Numerical approaches to analysis of the stress-deformed conditions of defective structural elements and prognostication its long-time durability;**

**Computational analysis of the fluid dynamics around transportation units in various exploitation conditions.**



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## General information



Family Name: **Pochinkov**  
First Name: **Roman**  
Middle Name: **Adolfovich**  
Date of Birth: **12.09.1983**  
City of Birth: **Novorossiysk**  
Country of Birth: **The Russian Federation**  
Citizen of **The Russian Federation**  
Family Status: **Married**  
Children: **Son**

## Contact information

Permanent Address: **22 Lenin Avenue, apartment 40**  
City: **Novorossiysk**  
Postal Code: **353910**  
Telephone (mobile): **+7 (918) 4184758**  
(home): **+7 (8617) 716610**  
E-mail: [r.pochinkov@mail.ru](mailto:r.pochinkov@mail.ru)

## Education

### **Pupil of the Maritime Technical Lyceum (September 1, 1998 - June 1, 2000)**

Address: 29A, Geroev Desantnikov Street  
City: Novorossiysk  
Postal Code: 353913  
Telephone: +7 (8617) 711834

Graduation date: June 2000  
Qualification: Second grade motorman

### **Cadet of the Novorossiysk State Maritime Academy (August 15, 2000 - July 10, 2005)**

Address: 93, Lenin Avenue  
City: Novorossiysk  
Postal Code: 353918  
Telephone: +7 (8617) 717525  
Fax: +7 (8617) 717525  
E-mail: [mail@nsma.ru](mailto:mail@nsma.ru)

#### Practical work:

- Assistant of the process engineer at the Open Joint Stock Company «NOVOSHIP. Ships' Service Centre» - two months;
- Mechanical-trainee at the Open Joint Stock Company «Novorossiysk Commercial Sea Port» - three months;
- Assistant of the stevedore at the Open Joint Stock Company «NovorosLesExport» - two months;
- Mechanical-trainee at the Limited Liability Company «Novorossiysk Fishery Port» - two months.

#### Achievements:

- The first place at the scientific and technical conference «Student and Science 2002»;
- The second place at the scientific and technical conference «Cadet and Science 2003»;
- The Diploma of the participant at the regional final «Microsoft Imagine Cup 2004» competition;
- The first place at the competition «Sea transport evolution aspects 2005» in the nomination «Power plants and its technology of maintenance»;
- The second place at the competition «Sea transport evolution aspects 2005» in the nomination «Cadets' research effort»;

# CURRICULUM VITAE

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- The first place at the competition «Sea transport evolution aspects 2005» in the nomination «Cadets' reports, term papers and diplomas»;
- The first place at the competition «Sea transport evolution aspects 2005» in the nomination «Modern information technology».

Scholarships:

- The first scholarship of the Novorossiysk State Maritime Academy;
- Governor of the Krasnodar Region individual scholarship;
- Chairman of the Russian Federation Government individual scholarship.

Graduation date: July 2005

Department: Mechanical Engineering Department

Profession: Port operations and Transhipment terminals service

Qualification: Mechanical Engineer

Academic average 5.0 (diploma with honours)

## **Pupil of the Driving school (August 15, 2005 - November 1, 2006)**

Driving license of category B (automobiles)

## **Post Graduate Student at the Post-graduate course at the Admiral F.F.Ushakov Maritime State Academy (November 1, 2006 - June 1, 2009)**

Achievements:

- Participation at the fifth regional scientific and technical conference «Modern condition of the safety navigation on the south sea basins of the Russia 2006»;
- Participation at the sixth regional scientific and technical conference «Problems of the sea navigation safety, technical and commercial exploitation of the sea transport 2007»;
- Participation at the sixth regional scientific and technical conference «Problems of the sea navigation safety, technical and commercial exploitation of the sea transport 2008»;
- Participation at the local scientific conference «Young Science 2008»;
- Participation at the seventh international scientific and technical conference on reliability of materials and structures «RELMAS 2008».

Scholarships:

- Research grant of the Admiral F.F.Ushakov Maritime State Academy;
- Governor of the Krasnodar Region individual scholarship.

Graduation date: May 2009

Defending of dissertation took place at: Don State Polytechnic University

On the meeting of the dissertation council: D 212.058.03

Address: 1 Gagarin square

City: Rostov-on-Don

Postal Code: 344000

Telephone: +7 (863) 2738525

Fax: +7 (863) 2327953

E-mail: [reception@dstu.edu.ru](mailto:reception@dstu.edu.ru)

Speciality: 01.02.06 - Dynamics, structural integrity of the machines, devices and equipment

Dissertation title: **Prognostication of the small fatigue crack kinetics in the nickel-aluminium bronzes of the propeller blades**

Research interests:

- Fracturing, crack nucleation and growth in the engineering structures;
- Assessment of a long-term durability of the defective engineering construction;
- Hydraulic and gas dynamics of the transport units (sea going crafts and aircrafts).

Academic degree: Candidate of Technical Science (Ph.D.) (with honours)

## **Working experience**

**Mechanical Engineer at the Research and Designing Institute of the sea transport «NOVOMOR**

# CURRICULUM VITAE

Roman A. Pochinkov, Assistant Professor, Ph.D. in Mechanical Engineering

## **NII PROEKT» (August 15, 2005 - August 18, 2006)**

Address: 18A, Suvorovskaya Street  
City: Novorossiysk  
Postal Code: 353910  
Telephone: +7 (8617) 618000  
Fax: +7 (8617) 632499  
E-mail: [novomor@novomor.ru](mailto:novomor@novomor.ru)

Projects that I took part in:

- The Closed Joint Stock Company «Togliatti Azot». The cargo handling complex for transshipment ammonia in Temrjuk area, Krasnodar region;
- The Limited Liability Company «RosChemTrade». The Terminal for transshipment liquid hydrocarbons at the Sea Trade Port of Temryuk;
- The Federal Public Unitary Enterprise «RosMorPort» - Eisk office. Port fleet berth;
- The Open Joint Stock Company «Varandey Terminal». The Mooring quay near by Starii Varandey settlement;
- The Open Joint Stock Company «NovorosLesExport» Container terminal.

## **Lecturer at the Admiral F.F.Ushakov Maritime State Academy (named Novorossiysk State Maritime Academy before) (August 20, 2006 – September 1, 2009)**

Subjects taught:

- Theoretical & Applied mechanics;
- Theory of strength of materials;
- Modern computer-aided design systems (CAD, CAM, CAE).

Projects that I took part in:

- Development of the medium-priced test benches for experimental study of the nucleation and growth mechanisms of the fatigue cracks in compact specimens;
- Investigation of the reasons of the fatigue failure of the propeller blades, which was observed in modern large-capacity tankers (project was fulfilled in cooperation with JSC «NOVOSHIP»).

## **Docent (Assistant Professor) at the Admiral F.F.Ushakov Maritime State Academy (named Novorossiysk State Maritime Academy before) (September 1, 2009 - Till present)**

Subjects taught:

- Theoretical & Applied mechanics;
- Theory of strength of materials;
- Modern computer-aided design systems (CAD, CAM, CAE).

Projects that I took part in:

- Investigation of the reasons of the fatigue failure of the aircraft structures which are made of glass-fibre reinforced plastic (project is being fulfilled in cooperation with Federal Public Unitary Enterprise «All-Russian Institute of the Aviation Materials», Gelendjik environmental test centre).
- Development of the FEM-CFD based software pack for automated prediction of the long-time durability of the damaged ship hull structures (project is being fulfilled in cooperation with JSC «NOVOSHIP» and Central Research and Design Institute of the Marine Fleet “CNIIMF”).

## Other experience

### **General knowledge of computer:**

- Professional knowledge in MS Windows XP/2003/Vista, MS Office (Word, Excel, Access, PowerPoint), Internet Browsers, Graphical programs (3D Studio Max, Adobe Photoshop, Corel-Draw), Programming products (MS Visual Basic, Visual Basic.NET, Visual Basic for Application, Borland Pascal, Fortran, C++).

### **Knowledge of the specialized software products:**

- Professional knowledge in CAD\CAM systems: ASCON Kompas 3D, Autodesk AutoCAD, Autodesk

# CURRICULUM VITAE

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- Inventor, SolidWorks, MAX Surf PRO (naval architecture & ship construction software);
- Professional knowledge in CAE systems: ANSYS Multiphysics, COSMOS (including COSMOS Basic, COSMOS FloWorks, COSMOS Motion), MSC.Nastran (including MSC.Patran, MSC.Fatigue);
- Professional knowledge in CFD systems: ANSYS CFX, ANSYS Fluent, TESIS Workflow;
- General knowledge in SCADA systems: National Instruments LabView;
- General knowledge in scientific calculation systems: PTC MathCAD, Mathwork MathLAB, SPSS Statistics.

## Language Proficiency:

- My spoken English is fluent. I also proficient in reading and writing. I have a good knowledge in technical English, mechanical terminology and business correspondence. Besides, I defended my diploma project in English.

## Kin relatives

- Son.** Family Name: **Pochinkov**  
First Name: **Victor**  
Age: **1**  
Profession: **None**  
Workplace: **None**
- Wife.** Family Name: **Pochinkova** (maiden name **Ribalko**)  
First Name: **Anna**  
Age: **25**  
Profession: **Specialist (Technician) in the field of automated systems management**  
Workplace: **The chief cashier in the booking office of the «Aeroflot» company**
- Mother.** Family Name: **Babinina** (maiden name **Stambakio**)  
First Name: **Elena**  
Age: **60**  
Profession: **Engineer in the field of sea transport economic**  
Workplace: **Pensioner**
- Father.** Family Name: **Pochinkov**  
First Name: **Adolf**  
Age: **73**  
Profession: **Engineer in the field of sea transportation operations**  
Workplace: **Pensioner**
- Brother.** Family Name: **Babynin**  
First Name: **Andrey**  
Age: **39**  
Profession: **Engineer-navigator (Captain of the ocean navigation)**  
Workplace: **Pilot of the oil-loading terminal “Sakhalin-2” (Shell International Project)**

## Printed publications

№	Work Name	Colophon	Number of printed pages	Co-authors
1	Influence of the propulsive system operation on the fatigue strength of the ship's structures (article)	Materials of the fifth regional scientific and technical conference, Novorossiysk: Admiral F.F.Ushakov Maritime State Academy publishing office, 2006	3	Dr. Sc. A.V. Faivisovich

# CURRICULUM VITAE

Roman A. Pochinkov, Assistant Professor, Ph.D. in Mechanical Engineering

№	Work Name	Colophon	Number of printed pages	Co-authors
2	Determination of the parameters of the crack closure effect (article)	Materials of the fifth regional scientific and technical conference, Novorossiysk: Admiral F.F.Ushakov Maritime State Academy publishing office, 2006	4	Ph. D. M.M. Frolov
3	Numerical modelling of the propeller functioning in the unobstructed fluid flow (article)	Materials of the sixth regional scientific and technical conference, Novorossiysk: Admiral F.F.Ushakov Maritime State Academy publishing office, 2007	4	Dr. Sc. A.V. Faivisovich
4	Numerical modelling of the ship hull influence on the propeller operation conditions (article)	Materials of the sixth regional scientific and technical conference, Novorossiysk: Admiral F.F.Ushakov Maritime State Academy publishing office, 2007	4	Dr. Sc. A.V. Faivisovich
5	Numerical analyses of the stress-deformed condition of the propeller blade (article)	Materials of the sixth regional scientific and technical conference, Novorossiysk: Admiral F.F.Ushakov Maritime State Academy publishing office, 2007	3	Dr. Sc. A.V. Faivisovich
6	Numerical analyses of the stress-deformed condition of propeller blades on the "NS" ships series (article)	Materials of the seventh international conference on reliability of materials and structures RELMAS 2008, St. Petersburg: Polytechnic University publishing office, 2008	4	Dr. Sc. A.V. Faivisovich
7	Prediction of the initial stage of the fatigue fracture of the constructional material (article)	Materials of the seventh international conference on reliability of materials and structures RELMAS 2008, St. Petersburg: Polytechnic University publishing office, 2008	6	Dr. Sc. A.V. Faivisovich
8	Methodical approaches to prognostication of the initial stages of the fatigue fracture (article)	Proceedings of the higher education institutes of the Northern Caucasian region. Technical sciences. Special issue. Novocherkassk: Novocherkassk Polytechnic University publishing office, 2008	4	Dr. Sc. A.V. Faivisovich
9	Development of the electrical discharge experimental bench for creation of the initial notches (article)	Proceedings of the higher education institutes of the Northern Caucasian region. Technical sciences. Special issue. Novocherkassk: Novocherkassk Polytechnic University publishing office, 2008	4	Lecturer assistant M.N.Chura
10	Hydrodynamics of the ship's controlled motion (methodical guide)	Novorossiysk: Admiral F.F.Ushakov Maritime State Academy publishing office, 2008	86	Dr. Sc. S.I. Kondratiev

# CURRICULUM VITAE

Roman A. Pochinkov, Assistant Professor, Ph.D. in Mechanical Engineering

№	Work Name	Colophon	Number of printed pages	Co-authors
11	Fatigue experiment, its methodology and statistical analysis of the experimental data (article)	Materials of the seventh regional scientific and technical conference, Novorossiysk: Admiral F.F.Ushakov Maritime State Academy publishing office, 2008	5	Dr. Sc. A.V. Faivisovich, Lecturer assistant M.N.Chura
12	Kinetics of the initial stage of the fatigue crack growth in nickel-aluminium bronzes (article)	Materials of the regional scientific and technical conference "Young Science 2008", Pyatigorsk: Pyatigorsk University publishing office, 2008	5	Lecturer assistant M.N.Chura
13	Influence of the heat treatment on fatigue crack development in nickel-aluminum bronzes (article)	Materials of the regional scientific and technical conference "Young Science 2008", Pyatigorsk: Pyatigorsk University publishing office, 2008	4	Lecturer assistant M.N.Chura
14	Influence of the surface modification with Ni-Ti shape memory alloy on the stress-deformed condition of propeller blades (article)	Materials of the third all-Russians scientific and technical conference, Krasnoyarsk: Institute of the Computational Mathematics and Mechanics, Russian Academy of Science publishing office, 2009	4	Dr.Sc. J.M.Blednova Lecturer assistant P.O.Rusinov
15	Engineering methodology for the reliability improvement of the propeller blades (article)	Problems of mechanical engineering, Moscow: Institute of Problems of Mechanical Engineering, Russian Academy of Science publishing office, 2009	13	Dr. Sc. N.A. Mahutov Dr. Sc. J.M.Blednova Lecturer assistant P.O.Rusinov
16	Mathematical model for prognostication of the initial stages of the fatigue fracture in nickel-aluminium bronzes (article)	Materials of the fifth all-Russians scientific and technical conference, Penza: Penza State University publishing office, 2009	5	None
17	FEM Based Methodology for stress state analysis of the propeller blade plated with nickel-titanium SMA (article)	Problems of mechanical engineering, Moscow: Institute of Problems of Mechanical Engineering, Russian Academy of Science publishing office, 2010	6	Dr. Sc. N.A. Mahutov Dr. Sc. J.M.Blednova Lecturer assistant P.O.Rusinov
18	Methodology for numerical analysis of the stress-deformed condition of the ship hull structures on basis of finite element method (initial data preparation) (article)	Admiral F.F.Ushakov Maritime State Academy transactions. Novorossiysk: Admiral F.F.Ushakov Maritime State Academy publishing office, 2010	4	Dr. Sc. A.V. Faivisovich
19	Methodology for numerical analysis of the stress-deformed condition of the ship hull structures on basis of finite element method (computer analysis) (article)	Admiral F.F.Ushakov Maritime State Academy transactions. Novorossiysk: Admiral F.F.Ushakov Maritime State Academy publishing office, 2010	6	Dr. Sc. A.V. Faivisovich



# CURRICULUM VITAE

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## Publications in press

№	Work Name	Colophon	Number of printed pages	Co-authors
20	Methodological aspects of the residual strength estimation of the damaged hull structures (article)	Don State Polytechnic University transactions. Rostov-on-Don: Don State Polytechnic University publishing office, 2010	11	Dr. Sc. B.V. Sobol
21	The Mechanics. Theoretical Mechanic (lecture notes)	Novorossiysk: Admiral F.F.Ushakov Maritime State Academy publishing office, 2010	83	Ph. D. D.E. Vyazun
22	The Mechanics. Theory of the strength of materials (lecture notes)	Novorossiysk: Admiral F.F.Ushakov Maritime State Academy publishing office, 2010	78	Ph. D. D.E. Vyazun
23	The Mechanics. Machine elements (lecture notes)	Novorossiysk: Admiral F.F.Ushakov Maritime State Academy publishing office, 2010	80	Ph. D. D.E. Vyazun

## Publications in progress

№	Work Name	Colophon	Number of printed pages	Co-authors
24	Numerical methods in modern practice of the sea transportation engineers (methodical guide)	Novorossiysk: Admiral F.F.Ushakov Maritime State Academy publishing office, 2010-2011	119	None