

СВЕДЕНИЯ О ВЕДУЩЕЙ ОРГАНИЗАЦИИ
**по диссертации Нгуен Ван Лам, выполненной на тему: «Нестационарная динамика
 среды Коссера со сферическими границами» по специальности 01.02.04 - «Механика
 деформируемого твердого тела»**

1.	Полное наименование организации	Федеральное государственное автономное образовательное учреждение высшего образования "Национальный исследовательский Нижегородский государственный университет им. Н.И. Лобачевского"
2.	Сокращенное наименование организации	ФГАОУ ВО ННГУ им. Н.И. Лобачевского
3.	Организационно-правовая форма организации	Федеральное государственное автономное образовательное учреждение высшего образования
4.	Ведомственная принадлежность организации	Министерство науки и высшего образования Российской Федерации
5.	Место нахождения	г. Нижний Новгород, Российская Федерация
6.	Почтовый адрес организации	603022, г. Нижний Новгород, пр. Гагарина, д. 23.
7.	Телефон организации	+7(831) 462-30-03
8.	Адрес электронной почты организации	unn@unn.ru
9.	Адрес официального сайта организации в сети Интернет	www.unn.ru
10.	Руководитель организации	Загайнова Елена Вадимовна
11.	Наименование профильного структурного подразделения, занимающегося проблематикой диссертации	Научно-исследовательский институт механики, лаборатория моделирования физико-механических процессов
12.	Сведения о лице, утверждающем отзыв ведущей организации	Проректор по научной работе, доктор физ.-мат. наук, доцент Иванченко Михаил Васильевич
13.	Сведения о составителе отзыва из ведущей организации	Игумнов Леонид Александрович, доктор физ.-мат. наук, профессор, главный научный сотрудник лаборатории моделирования физико-механических процессов
14.	Список основных публикаций работников структурного подразделения, составляющего отзыв, за последние пять лет по теме диссертации	
	1. Bragov A.M., Igumnov L.A., Konstantinov A.Y., Kruszka L., Lamzin D.A., Lomunov A.K. Methodological aspects of testing brittle materials using the split Hopkinson bar technique // STRAIN. – 2021. V. 57, I. 5. – Article Number: e12389. DOI: 10.1111/str.12389	
	2. Igumnov L.A., Kazakov D.A., Shishulin D.N., Modin I.A., Zhegalov D.V. Experimental studies of high-temperature creep of titanium alloy VT6 under conditions of a complex stress state under the influence of an aggressive medium // Vestnik Samarskogo gosudarstvennogo tekhnicheskogo universiteta-seriya-fiziko-matematicheskiye nauki. – 2021. V. 25, I. 2. – P. 286–302. DOI: 10.14498/vsgtu1850	
	3. Gorokhov V.A., Kapustin S.A., Churilov Y.A., Igumnov L.A. Modeling deformation of materials and structures of nuclear power engineering subjected to thermal-radiation	

- effects // Continuum mechanics and thermodynamics. – 2020. V. 33, I. 4, Special Issue. – P. 1053–1061. DOI: 10.1007/s00161-020-00946-5
4. Bragov A., Igumnov L., Dell'Isola F., Konstantinov A., Lomunov A., Iuzhina T. Dynamic Testing of Lime-Tree (*Tilia Europaea*) and Pine (*Pinaceae*) for Wood Model Identification // MATERIALS. – 2020. V. 13, I. 22. – Article Number: 5261. DOI: 10.3390/ma13225261
 5. Bragov A.M., Igumnov L.A., Konstantinov A.Yu., Lomunov A.K., Rusin E.E., Eremeyev V.A. Experimental analysis of wear resistance of compacts of fine-dispersed iron powder and tungsten monocarbide nanopowder produced by impulse pressing // WEAR. – 2020. V. 456. Article Number: 203358. DOI: 10.1016/j.wear.2020.203358
 6. Abrosimov N.A., Igumnov L.A., Novosel'tseva N.A. Numerical Analysis of the Effect of Strain Rate on the Dynamic Strength of Cylindrical Metal-Plastic Shells under Explosive Loading // JOURNAL OF APPLIED MECHANICS AND TECHNICAL PHYSICS. – 2020. V. 61, I. 2. – P. 267–276. DOI: 10.1134/S0021894420020133
 7. Romanov A.I., Panov V.A., Samsonov M.A., Chirkin D.E., Bragov A.M., Igumnov L.A., Konstantinov A.Yu., Lomunov A.K. Study of the deformation and fracture of zirconium alloys under dynamic loading // Materials physics and mechanics. – 2020. V. 46, I. 1. – P. 88–98. DOI: 10.18149/MPM.4612020_9
 8. Volkov I.A., Igumnov L.A., Dell'Isola F., Litvinchuk S.Y., Eremeyev V.A. A continual model of a damaged medium used for analyzing fatigue life of polycrystalline structural alloys under thermal-mechanical loading // CONTINUUM MECHANICS AND THERMODYNAMICS. – 2020. V. 32, I. 1. – P. 229-245. DOI: 10.1007/s00161-019-00795-x
 9. Volkov I.A., Igumnov L.A., Tarasov I.S., Shishulin D.N. Modeling Plastic Deformation of Structural Alloys under Block-Type Nonsymmetrical Regimes of Low-Cycle Loading // LOBACHEVSKII JOURNAL OF MATHEMATICS. – 2019. V. 40, I. 11, Special Issue. – P. 2018-2026. DOI: 10.1134/S1995080219110313
 10. Bragov A., Igumnov L., Konstantinov A. Lomunov A., Rusin E. Effects of High Strain Rate and Self-heating on Plastic Deformation of Metal Materials Under Fast Compression Loading // JOURNAL OF DYNAMIC BEHAVIOR OF MATERIALS. – 2019. V. 5, I. 3, Special Issue. – P. 309-319. DOI: 10.1007/s40870-019-00214-x
 11. Baroudi D., Giorgio I., Battista A., Turco E., Igumnov L.A. Nonlinear dynamics of uniformly loaded Elastica: Experimental and numerical evidence of motion around curled stable equilibrium configurations // ZAMM-ZEITSCHRIFT FUR ANGEWANDTE MATHEMATIK UND MECHANIK. – 2019. V. 99, I. 7. – Article Number: UNSP e201800121. DOI: 10.1002/zamm.201800121
 12. dell'Isola F., Seppecher P., Spagnuolo M., Barchiesi E., Hild F., Lekszycki T., Giorgio I., Placidi L., Andreaxis U., Cuomo M., Eugster S.R., Pfaff A., Hoschke K., Langkemper R., Turco E., Sarikaya R., Misra A., De Angelo M., D'Annibale F., Bouterf A., Pinelli X., Misra A., Desmorat B., Pawlikowski M., Dupuy C., Scerrato D., Peyre P., Laudato M., Manzari L., Goransson P., Hesch C., Hesch S., Franciosi P., Dirrenberger J., Maurin F., Vangelatos Z., Grigoropoulos C., Melissinaki V., Farsari M., Muller W., Abali B.E., Liebold C., Ganzosch G., Harrison P., Drobnicki R., Igumnov L., Alzahrani F., Hayat T. Advances in pantographic structures: design, manufacturing, models, experiments and image analyses // CONTINUUM MECHANICS AND THERMODYNAMICS. – 2019. V. 31, I. 4. – P. 1231-1282. DOI:10.1007/s00161-019-00806-x
 13. Abrosimov N.A., Elesin A.V., Igumnov L.A. Numerical simulation of the process of loss of stability of composite cylindrical shells under combined quasi-static and dynamic actions // MECHANICS OF COMPOSITE MATERIALS. – 2019. V. 55, I. 1. – P. 41–52. DOI: 10.1007/s11029-019-09790-4
 14. Ipatov A.A., Igumnov L.A., Litvinchuk S.Y., Lyubimov A.K. Modification of Numerical Inversion of Laplace Transform in Solving Problems of Poroviscoelasticity via BEM // LOBACHEVSKII JOURNAL OF MATHEMATICS. – 2019. V. 40, I. 3, Special Issue. – P. 304–310. DOI: 10.1134/S1995080219030090

15. dell'Isola F., Giorgio I., Placidi L., Spagnuolo M., Peyre P., Dupuy C., Dirrenberger J., Pawlikowski M., Igumnov L. Pantographic metamaterials: a view towards applications // MATERIALS PHYSICS AND MECHANICS. – 2019. V. 42, I. 5. – P. 637–645. DOI: 10.18720/MPM.4252019_17
16. Gerasimov A.V., Igumnov L.A., Bragov A.M. Use of advanced materials in protection against high-velocity impact and explosion // MATERIALS PHYSICS AND MECHANICS. – 2019. V. 42, I. 6. – P. 711–716. DOI: 10.18720/MPM.4262019_3
17. Igumnov L.A., Petrov A.N., Vorobtsov I.V. the time-step boundary-element scheme on the nodes of the Lobatto method in problems of 3-D dynamic poroelasticity // MATERIALS PHYSICS AND MECHANICS. – 2019. V. 42, I. 1. – P. 103–111. DOI: 10.18720/MPM.4212019_9
18. Igumnov L.A., Tarlakovskii D.V., Zemskov A.V. Bulk Green's functions in one-dimensional unsteady problems of elastic diffusion // MATERIALS PHYSICS AND MECHANICS. – 2019. V. 42, I. 2. – P. 191–197. DOI: 10.18720/MPM.4222019_5
19. Igumnov L.A., Markov I.P., Boev A.V. Boundary element time-harmonic analysis of 3D linear piezoelectric solids // MATERIALS PHYSICS AND MECHANICS. – 2019. V. 42, I. 2. – P. 256–264. DOI: 10.18720/MPM.4222019_12
20. Igumnov L.A., Markov I.P., Boev A.V. A static boundary element analysis of 3D anisotropic elastic problems// MATERIALS PHYSICS AND MECHANICS. – 2019. V. 42, I. 4. – P. 461–469. DOI: 10.18720/MPM.4242019_11
21. Igumnov L.A., Petrov A.N., Belov A.A., Mironov A.A., Lyubimov A.K., Dianov D.Y. Numerically-analytically studying fundamental solutions of 3-D dynamics of partially saturated poroelastic bodies // MATERIALS PHYSICS AND MECHANICS. – 2019. V. 42, I. 5. – P. 596-601. DOI: 10.18720/MPM.4252019_12
22. Igumnov L.A., Metrikin V.S., Grigoryev M.V. Dynamics of a frictional system, accounting for hereditary-type friction and the mobility of the vibration limiter // MATERIALS PHYSICS AND MECHANICS. – 2019. V. 42, I. 6. – P. 742-748. DOI: 10.18720/MPM.4262019_6
23. Volkov I.A., Igumnov L.A., Kazakov D.A., Shishulin D.N., Tarasov I.S., Smetanin I.V. Constitutive Relations of the Mechanics of a Damaged Medium for Evaluating the Creep-Rupture Strength of Structural Alloys // JOURNAL OF APPLIED MECHANICS AND TECHNICAL PHYSICS. – 2019. V. 60, I. 1. – P. 156-166. DOI: 10.1134/S002189441901019X
24. Volkov I.V., Igumnov L.A., Litvinchuk S.Y. A Continual Model of Damaged Media for Describing the Creep Failure Process // UCHENYE ZAPISKI KAZANSKOGO UNIVERSITETA-SERIYA FIZIKO-MATEMATICHESKIE NAUKI. – 2019. V. 161, I. 4. – P. 509-525. DOI: 10.26907/2541-7746.2019.4.509-525
25. Volkov I.A., Igumnov L.A., Shishulin D.N. Modeling plastic deformation and damage accumulation processes in structural steels under block non-symmetric low-cycle loading // MATERIALS PHYSICS AND MECHANICS. – 2019. V. 42, I. 3. – P. 359-366. DOI: 10.18720/MPM.4232019_11
26. Volkov I.A., Igumnov L.A., Shishulin D.N. Evaluating long-term strength of structures // THERMAL SCIENCE. – 2019. V. 23. – P. S477-S488. DOI: 10.2298/TSCI19S2477V
27. Bragov A.M., Balandin V.V., Igumnov L.A., Kotov V.L., Kruszka L., Lomunov A.K. Impact and penetration of cylindrical bodies into dry and water-saturated sand // INTERNATIONAL JOURNAL OF IMPACT ENGINEERING. – 2018. V. 122. – P. 197-208. DOI: 10.1016/j.ijimpeng.2018.08.012
28. Igumnov L.A., Metrikin V.S., Lyubimov A.K., Ovchinnikov V.F., Grezina A.V. On the self-excitation of vibrations of a boring bar in the process of deep boring // JOURNAL OF VIBROENGINEERING. – 2018. V. 20, I. 5. – P. 2001-2011. DOI: 10.21595/jve.2017.18487
29. Volkov I.A., Igumnov L.A., Kazakov D.A., Shishulin D.N., Tarasov I.S. State Equations of Unsteady Creep under Complex Loading // JOURNAL OF APPLIED MECHANICS AND TECHNICAL PHYSICS. – 2018. V. 59, I. 3. – P. 551-560. DOI:

	10.1134/S0021894418030203
30.	Igumnov L.A., Metrikin V.S. On the Complex Dynamics in Simplest Vibrational Systems with Hereditary-Type Friction // IZVESTIYA SARATOVSKOGO UNIVERSITETA NOVAYA SERIYA-MATEMATIKA MEKHANIKA INFORMATIKA. – 2018. V. 18, I. 4. – P. 433-446. DOI: 10.18500/1816-9791-2018-18-4-433-446
31.	Igumnov L.A., Belov A.A., Ipatov A.A. Results of computer modelling of a composite poroviscoelastic prismatic solid dynamics // MATERIALS PHYSICS AND MECHANICS. – 2018. V. 37, I. 1. – P. 73-78. DOI: 10.18720/MPM.3712018_10
32.	Igumnov L.A., Markov I.P. A boundary element approach for 3D transient dynamic problems of moderately thick multilayered anisotropic elastic composite plates // MATERIALS PHYSICS AND MECHANICS. – 2018. V. 37, I. 1. – P. 79-83. DOI: 10.18720/MPM.3712018_11
33.	Igumnov L.A., Metrikin V.S. On the theory of a non-autonomous vibro-impact system with memory in the frictional force // MATERIALS PHYSICS AND MECHANICS. – 2018. V. 35, I. 1. – P. 59-65. DOI: 10.18720/MPM.3512018_8
34.	Vestyak V.A., Igumnov L.A., Tarlakovskiy D.V. Electromagnetic elastic ball under non-stationary axially symmetrical waves // MATERIALS PHYSICS AND MECHANICS. – 2018. V. 40, I. 2. – P. 296-303. DOI: 10.18720/MPM.4022018_18
35.	Volkov I.A. Igumnov L.A., Desyatnikova M.A. Defining relations of mechanics of damaged media affected by fatigue and creep // MATERIALS PHYSICS AND MECHANICS. – 2018. V. 36, I. 1. – P. 147-153. DOI: 10.18720/MPM.3612018_17
36.	Igumnov L.A., Metrikin V.S., Nikiforova I.V. The dynamics of eccentric vibration mechanism (Part 1) // JOURNAL OF VIBROENGINEERING. – 2017. V. 19, I. 7. – P. 4854-4865. DOI: 10.21595/jve.2017.18346
37.	Igumnov L.A., Tarlakovskii D.V., Zemskov A.V. A two-dimensional nonstationary problem of elastic diffusion for an orthotropic one-component layer // LOBACHEVSKII JOURNAL OF MATHEMATICS. – 2017. V. 38, I. 5, Special Issue. – P. 808-817. DOI: 10.1134/S1995080217050146
38.	Igumnov L.A., Ipatov A.A., Belov A.A., Litvinchuk S.Y. Boundary element method in solving dynamic problem of poroviscoelastic prismatic solid // MATERIALS PHYSICS AND MECHANICS. – 2017. V. 31, I. 1-2. – P. 1-4
39.	Igumnov L.A., Markov I.P., Amenitsky A.V., Vorobtsov I.V. Dynamic analysis of 3d composite piezoelectric solids using BEM // MATERIALS PHYSICS AND MECHANICS. – 2017. V. 31, I. 1-2. – P. 5-8
40.	Igumnov L.A., Litvinchuk S.Y., Petrov A.N., Aizikovich S.M. Simulation of a compressional slow wave in partially saturated poroelastic 1-D column // MATERIALS PHYSICS AND MECHANICS. – 2017. V. 31, I. 1-2. – P. 9-11

Ведущая организация подтверждает, что соискатель не является ее сотрудником и не имеет научных работ по теме диссертации, подготовленных на базе ведущей организации или в соавторстве с ее сотрудниками

Проректор по научной работе



М.В. Иванченко