

# CURRICULUM VITAE

**Evgeny Barkanov (Jevgenijs Barkanovs)**  
**Corresponding Member of Latvian Academy of Sciences**  
**Prof., Dr.sc.ing.**



## **I. Personal data**

Date of birth: 8 January 1964  
Place of birth: Riga, Latvia  
Marital status: married  
Nationality: Latvia

## **Business address:**

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Riga Technical University  
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## **II. All academic degrees obtained (e.g. B.A., M.A., Ph.D. and C.Sc. respectively, etc.)**

Year	Name of the academic degree	Name of university	Place, country	Subject of examination	Grade
1986	Engineer	Riga Polytechnical Institute	Riga, Latvia	Robots and manipulators	Dipl.-Ing. first-class diploma
1993	Doctor*	Riga Technical University	Riga, Latvia	Mechanics of deformable solids	Dr.sc.ing.

\*Doctor thesis "Methods and algorithms elaboration for dynamic analysis of thin-walled layered structures with damping", supervisor Prof. R. Rikards.

## **III. All stages of university education (incl. doctorate)**

Time (from/to)	Name of university	Place, country	Main subjects
1981-1986	Riga Polytechnical Institute	Riga, Latvia	Robots and manipulators
1988-1991	Riga Technical University	Riga, Latvia	Mechanics of deformable solids

#### **IV. Complete professional background (incl. military service, non-scientific activities etc.)**

Time (from/to)	Position	Name and place of the institution
1986-1988	Assistant	Riga Polytechnical Institute: CAD Center, Department of the Strength of Materials
1988-1991	Aspirant	Riga Polytechnical Institute: Department of the Strength of Materials
1991-1993	Assistant	Riga Technical University: CAD Center, Department of the Strength of Materials
1993-2002	Researcher	Riga Technical University: CAD Center, Institute of Computer Analysis of Structures
2002-2005	Senior Researcher	Riga Technical University: Institute of Materials and Structures
2005-2008	Assoc. Professor	Riga Technical University: Institute of Materials and Structures
2008-	Professor	Riga Technical University: Institute of Materials and Structures
2018-	Corresponding Member	Latvian Academy of Sciences

#### **V. Previous periods of work, study and research abroad (of at least one month's duration)**

Time (from/to-month/year)	Name and place of the institution	Purpose of stay	Financed by	Name and address of scientific mentor
01/1994-04/1994	Kassel University	Study of educational process	TEMPUS (JEP 0615493)	<sup>1</sup> Prof. A. Bledzki
11/1994-03/1995	Kaiserslautern University, Magdeburg University	Retraining and updating	TEMPUS (IMG-94-LV-1007)	<sup>2</sup> Prof. J. Karger- Kocsis, <sup>3</sup> Dr. H. Altenbach
03/1996-04/1996	National Technical University of Athens	Scientific visit	NATO Research Fellowship	<sup>4</sup> Prof. M. Papadrakakis
02/1997-03/1997	Halle-Wittenberg University	Development of a course	TEMPUS (IMG-96-LV-1002)	<sup>5</sup> Prof. H. Altenbach

04/1997-07/1997	Halle-Wittenberg University	Scientific visit	Konferenz der Deutschen Akademien der Wissenschaften (Volkswagen Stiftung)	<sup>5</sup> Prof. H. Altenbach
09/1998-12/1998	Dresden Technical University	Scientific visit	DFG	<sup>6</sup> Prof. W. Hufenbach
09/2000-12/2000	Dresden Technical University	Scientific visit	DAAD	<sup>6</sup> Prof. W. Hufenbach
09/2003-01/2004	Dresden Technical University	Scientific visit	DAAD	<sup>6</sup> Prof. W. Hufenbach
01/2013-03/2013	Dresden Technical University	Scientific visit	DAAD	<sup>6</sup> Prof. W. Hufenbach

<sup>1</sup>Institut für Werkstofftechnik, Mönchebergstr. 3, 34125 Kassel, Deutschland.

<sup>2</sup>Institut für Verbundwerkstoffe GmbH, Erwin-Schrödinger-Strasse, 67663 Kaiserslautern, Deutschland.

<sup>3</sup>Institut für Werkstofftechnik und Werkstoffprüfung, Universitätsplatz 2, 39106 Magdeburg, Deutschland.

<sup>4</sup>Institute of Structural Analysis and Seismic Research, Zografou Campus, 15773 Athens, Greece.

<sup>5</sup>Institut für Werkstoffwissenschaft, Geusaer Strasse, 06099 Halle (Saale), Deutschland.

<sup>6</sup>Institut für Leichtbau und Kunststofftechnik, Dürerstrasse 26, 01062 Dresden, Deutschland.

## **VI. Other qualifications**

Textbooks:	3
Edited books:	2
Scientific publications:	126
Abstracts at conferences:	92
Languages:	Russian (mother tongue), Latvian (fluent), English (fluent), German (poor)

## **VII. Activity in international research projects and programs**

Time (from/to)	Program	Role	Project	Project acronym
2002-2003	FRAMEWORK 5	RTU team leader	Advanced composite sandwich steel structures	SANDWICH
2005-2011	FRAMEWORK 6	RTU team leader	Advanced low cost aircraft structures	ALCAS
2004-2009	FRAMEWORK 6	RTU team leader	Integration of technologies in support of a passenger and environmentally	FRIENDCOPTER

2003-2008	FRAMEWORK 6	RTU team leader	friendly helicopter Modular ship concepts	INTERSHIP
2005-2008	FRAMEWORK 6	RTU team leader	Composites and adaptive structures: simulation, experimentation and modelling	CASSEM
2004-2005	FRAMEWORK 6	RTU team leader	Coordination action on advanced sandwich structures in maritime transportation	SAND.CORe
2006-2010	FRAMEWORK 6	Person in charge	Developing lightweight modules for transport systems featuring efficient production and lifecycle benefits at structural and functional integrity using risk based design	DE-LIGHT
2006-2010	FRAMEWORK 6	Person in charge	Multidisciplinary research and training on composite materials applications in transport modes	MOMENTUM
2013-2017	FRAMEWORK 7	Person in charge	Development of an innovative manufacturing process for the in-line coating of pultruded composites	COALINE
2012-2016	FRAMEWORK 7	Coordinator	Innovative nondestructive testing and advanced composite repair of pipelines with volumetric surface defects	INNOPIPES
2005-2008	Taiwan-Baltic partnership program	Coordinator	Characterisation of advanced composite material properties	-
2009-2011	MATERA	Person in charge	Advanced dynamic modelling of adaptive multifunctional materials and structures	ADYMA
2009-2013	COST	Person in charge	Composites of inorganic nanotubes and polymers	COINAPO
2012	BMBF	Person in charge	Holistic monitoring system for wind turbines	-

International project proposals successfully prepared for the competition:

- Advanced composite sandwich steel structures – NAS-SANDWICH (FRAMEWORK 5 - GROWTH)
- Manufacturing and modelling of fabricated structural components – NAS-MMFSC (FRAMEWORK 5 - GROWTH)

- Design of an advanced composite production process for the systematic manufacture of very large monocoque hybrid sandwich structures for the transportation sectors – NAS-HYCOPROD (FRAMEWORK 5 - GROWTH)
- Innovative nondestructive testing and advanced composite repair of pipelines with volumetric surface defects – INNOPIPES (FRAMEWORK 7 – Marie Curie, International Research Staff Exchange Scheme)
- Characterisation of advanced composite material properties (Taiwan-Baltic partnership program)

### **VIII. Fields of research**

Mechanics of composite materials, computational mechanics, experimental mechanics, dynamics of structures, vibration damping, structural control, sandwich and laminated composites, lightweight design, numerical methods, finite element method, inverse problems, optimisation.

### **IX. Courses for Bachelor, Master and Doctor studies in Riga Technical University**

- BKA306 The Finite Element Method (Introduction) (2 CP)
- BKA516 The Finite Element Method (General Course) (4 CP)
- BKA605 Vibration Damping (5 CP)
- BKA611 The Finite Element Method (10 CP)
- BKA612 Research Seminars in Specialization (6 CP)

Textbooks:

- 1) E. Barkanov. Introduction to the Finite Element Method. Textbook. – Riga: RTU Publishing House, 2002, 72 p.
- 2) J. Barkanovs. Ievads galīgo elementu metodē, 1. sējums. Mācību grāmata. – Rīga: RTU Izdevniecība, 2013. 94 lpp.  
E. Barkanov. Introduction into the Finite Element Method, volume 1. Textbook. – Riga: RTU Publishing House, 2013. 94 p. (in Latvian).
- 3) J. Barkanovs. Ievads galīgo elementu metodē, 2. sējums. Mācību grāmata. – Rīga: RTU Izdevniecība, 2013. 173 lpp.  
E. Barkanov. Introduction into the Finite Element Method, volume 2. Textbook. – Riga: RTU Publishing House, 2013. 173 p. (in Latvian).

### **VIII. Other activities**

Membership in associations, organisations:

- Secretary of the Professor Council in the Civil Engineering and Architecture from 2000 year.
- Member of the Professor Council in the Civil Engineering and Architecture from 2010 year.
- Member of the Promotion Council RTU P-03 from 2010 year.
- Member of the Promotion Council RTU P-06 from 2015 year.
- Member of the RTU Academic Assembly from 2008 year.
- Member of the Latvian National Mechanics Association from 2012 year.
- Expert in the Latvian Council of Science from 2008 year.
- Expert in the EU FRAMEWORK7 and HORIZON2020 programs from 2007 year.

Membership in scientific committees of international conferences:

- Editorial board member of the International Conference on Computational Structures Technology from 2006 year.
- Program committee vice-chairman of the International Conference “NDT Days 2014”, Sozopol, Bulgaria, 9-18 June 2014.
- International scientific committee member of the 3<sup>rd</sup> International Conference on Optimization and Analysis of Structures (OAS2015), Tartu, Estonia, 23-25 August 2015.
- Editorial board member of the 15<sup>th</sup> International Conference on Civil, Structural and Environmental Engineering Computing (CC2015), Prague, Czech Republic, 1-4 September 2015.
- International scientific committee member of the 10<sup>th</sup> International Conference on Composite Science and Technology (ICCST/10), Lisbon, Portugal, 2-4 September 2015.
- Scientific committee co-chairman of the International Conference “NDT Days 2016”, Sozopol, Bulgaria, 6-11 June 2016.
- Scientific committee co-chairman of the International Conference “NDT Days 2017”, Sozopol, Bulgaria, 12-16 June 2017.
- Scientific committee member of the 8<sup>th</sup> ECCOMAS Thematic Conference on Smart Structures and Materials (SMART 2017), Madrid, Spain, 5-8 June 2017.
- Scientific committee member of the International Conference “NDT Days 2018”, Sozopol, Bulgaria, 4-8 June 2018.
- International scientific committee member of the 4<sup>th</sup> International Conference on Optimization and Analysis of Structures (OAS 2018), Tartu, Estonia, 21-23 August 2018.

Membership in editorial boards of scientific journals:

- Member of the editorial board of “Information Technology Bulletin” (ISSN: 2409-1650).
- Member of the editorial board of “PNRPU Mechanics Bulletin” (ISSN: 2224-9893, e-ISSN: 2226-1869).
- Member of the Advisory Board of “Mechanics of Composite Materials” (ISSN: 0191-5665 (Print) 1573-8922 (Online)).

## **XI. Awards**

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| 1981 | The gold medal for excellence knowledge in the secondary school from the Latvian Ministry of Education and Science.  |
| 2012 | Certificate of Honour from the rector of Riga Technical University for a great personal contribution to the development of higher technical education.                         |
| 2014 | Certificate of Honour from the rector of Riga Technical University for a long-term, significant contribution to the training of new qualified specialists and scientific work. |

Riga, Latvia  
11 January 2019