

# CURRICULUM VITAE

**Evgeny Barkanov (Jevgenijs Barkanovs)**  
**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:

Institute of Materials and Structures  
Riga Technical University  
Kalku St. 1  
LV 1658, Riga  
Latvia  
Tel.: +371 67089264  
Fax: +371 67089254  
E-mail: barkanov@latnet.lv

## 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

#### **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**

Edited books:	2
Scientific publications:	121
Attendance at conferences:	91
Languages:	Russian (mother), Latvian (good), English (good), German (low)

## **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 friendly helicopter	FRIENDCOPTER
2003-2008	FRAMEWORK 6	RTU team leader	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”.

### **XI. Awards**

1981            The gold medal for excellence knowledge in the secondary school from the Latvian Ministry of Education and Science.

Riga, Latvia  
27 March 2018