Приложение к Заявлению об участии в конкурсе на замещение должности научно-педагогического работника

Сведения об участнике конкурса на замещение должности научно-педагогического работника

ФИО (полностью) Беляев Александр Константинович Должность, доля ставки, специальность: профессор, 0,5 ставки, механика (01.02.00) Дата объявления конкурса в средствах массовой информации «07» октября 2014 г.

1. Место работы в настоящее время: Институт проблем машиноведения РАН, заместитель директора по научной работе

(наименование организации, подразделение, должность)

- 2. Ученая степень (с указанием научной специальности, защита в диссовете при:) доктор физико-математических наук, специальность 01.02.04 «Механика деформируемого твердого тела» при Санкт-Петербургском государственном политехническом университете
- 3. Ученое звание: доцент
- 4. Стаж научно-педагогической работы: 35 лет
- 5. Общее количество опубликованных работ: 171
- 6. Научные, учебно-методические, творческо-исполнительские работы за последние 3 года:

NoNo	Наименование работы, ее вид	Форма	Выходные	Объем	Соавторы
ПП		работы	данные	в п.л.	
1	2	3	4	5	6
1. H	аучные труды				
1	Propagation of random waves in	статья	Key		
	elastic media with		Engineering		
	microheterogeneities		Materials,		
			vol. 528, pp		
			13-21,		
			2012.		
2	Advanced Dynamics and Model	научная	Springer		H.Irschik,
	Based Control of Structures and	редак-	WienNewY		M.Krommer
	Machines	ция	ork, 2012,		
		книги	247 p.		
3	Stresses in pipeline affected by	статья	Acta		V.A.
	hydrogen		Mechanica,		Polyanskiy, Yu.A.

	1		vol. 223,	Yakovlev
			pp. 1611-	1 akovicy
			1619, 2012.	
4	Coalescence studies by means of an	статья	Journal of	A.V.Myagotin,
	optical flow analysis in projection	Cluiba	Synchrotron	A.Ershov,
	image sequences of evolving foams		Radiation	L.Helfen,
			19(4), pp.	R.Verdejo,
			483-491,	T.Baumbach
			2012.	
5	Термодинамический подход к	статья	Экологичес	
	вычислению высокочастотных		кий	
	вибраций АЭС		вестник	
	1 ,		научных	
			центров	
			ЧЭС, №1.	
			C. 33-38,	
			2012	
6	Определение скорости вращения	статья	Научно-	Нгуен Ван Тханг,
	втулки в упорном подшипнике		технически	Д.Г. Арсеньев
	скольжения с учетом		e	
	гидродинамики смазки и		ведомости	
	центробежных сил		СПбГПУ.	
			Физико-	
			математиче	
			ские науки,	
			№ 2(146)	
			C. 156-163,	
			2012	
7	Устойчивость движения шипа в	статья	Научно-	Нгуен Ван Тханг,
	подшипнике скольжения и его		технически	Д.Г. Арсеньев
	автоколебания с учетом		e	
	гидродинамики смазки и		ведомости	
	центробежных сил		СПбГПУ.	
			Физико-	
			математиче	
			ские науки,	
			№ 3(153) C. 132-142,	
			2012.	
8	Параметрическая неустойчивость	статья	Известия	Полянский А.М.,
G	при циклическом нагружении как	Катья	РАН.	Полянский В.А.,
	причина разрушения материалов,		Механика	Яковлев Ю.А.
	содержащих водород		Твердого	
	- Carpinalin Bodopod		Тела, № 5.	
			C. 53-57,	
			2012.	
9	Influence of hydrogen on pipeline's	статья	Third	V.A. Polyanskiy
	stresses		Fatigue	
			Symposium	
			J I	i
			, Leoben.	
			, Leoben, eds. W.	
			, Leoben, eds. W. Eichlseder,	

			2012, p.	
			372-380.	
10	Meta-accelerations in the problem of	труды	Proceedings	B.A. Smolnikov
	evolution and stability of free	конфере	of 5th	
	rotation of rigid body	нции	European	
			Conference	
			on	
			Structural	
			Control,	
			Genoa, June	
			18-20,	
			2012, pp.	
11	Distribution of the contillations		235-240	V.T. Name
11	Distribution of the equilibrium	труды	Advanced	V.T. Nguyen,
	positions of a shaft and defining the	конфере	Problems in Mechanics	D.G. Arseniev
	angular speed of the ring in a floating ring bearing.	нции	(APM2012)	
	Ting bearing.		, Russian	
			Academy of	
			Science, ed.	
			D.A.Indeits	
			ev and	
			A.M.Krivts	
			ov, St.	
			Petersburg,	
			2012.– P.	
			378-385.	
12	Example of instability in drive	статья	Advanced	
	mechanisms.		Dynamics	
			and Model	
			Based	
			Control of	
			Structures	
			and	
			Machines,	
			H.Irschik,	
			M.Kromme	
			r,	
			A.K.Belyae	
			v (eds.),	
			Springer WienNewY	
			ork, 2012,	
			pp. 35-42.	
13	Stability of transverse vibration of	статья	Journal of	D.N. Ilin, N.F.
	rod under longitudinal step-wise	VIGIDA	Physics:	Morozov
	loading		Conference	1.101020 (
	15 maring		Series, vol.	
			451, 2013.	
1.4	П		Dana	II & M
14	Параметрический резонанс в	статья	Вестник	Н.Ф.Морозов,
	задаче Ишлинского о		Киевского	Д.Н.Ильин
	скачкообразном продольном		националь	

		T	 	
	нагружении стержня		НОГО	
			университе	
			та, серия	
			физико-	
			математиче	
			ские науки,	
			№3, C.45-	
			50, 2013.	
15	Mechanics and Model-Based Control	научная	Springer	H.Irschik, M.
	of Advanced Engineering Systems	редак-	WienNewY	Krommer
	of Advanced Engineering Systems	-		Kiommer
		ция	ork, 2013,	
1.6	П	книги	316 p.	ПФ
16	Поперечная динамическая	статья	Доклады	Н.Ф.
	устойчивость стержня при		Академии	Морозов,
	продольном скачкообразном		Наук	Д.Н.Ильин
	нагружении		(Механика)	
			, том 450,	
			№ 3, C.	
			291-294.	
			2013.	
17	Fractional derivatives appearing in	статья	A.K.Belyae	
1,	some dynamic problems	CIGIDA	v, H.Irschik	
	some dynamic problems		and M.	
			Krommer,	
			eds.	
			Mechanics	
			and Model-	
			Based	
			Control of	
			Advanced	
			Engineering	
			Systems.	
			Springer	
			WienNewY	
			ork, P. 33-	
			40, 2013.	
18	Динамический подход к задаче	статья	Известия	Д.Н.Ильин,
10	Ишлинского-Лаврентьева	VIGIDA	PAH.	Д.П.ИЛБИН, Н.Ф.
	11111111111111111111111111111111111111		Механика	Морозов
				MIOhosor
			Твердого	
			Тела, 5, С.	
			28-33,	
			2013.	
19	The conditions of parametric	труды	Proceedings	A.M.
	instability in materials containing the	конфере	of the XLI	Polyanskiy,
	hydrogen.	нции	Summer	V.A.
			School -	Polyanskiy,
			Conference	Yu.A. Yakovlev
			Advanced	, , , , ,
			problems in	
			mechanics,	
			APM 2013	

St.	
Petersburg,	
July 1 – 6,	
2013, IPME	
RAS, St-	
Petersburg	
2013	
p.642-647.	
20 Dynamics and Stability of статья H.Irschik,	
Engineering Systems with Moving A.K.Belyae	
Continua v, eds.	
Dynamics	
of	
Mechanical	
Systems	
with	
Variable	
Mass.	
Springer,	
2014, pp.	
2014, pp. 223-266.	
	N/ A
21 Hydrogen as an indicator of high- статья IUTAM	V.A.
cycle fatigue Symposium	Polyanskiy,
on	Yu.A. Yakovlev
"Dynamical	
Analysis of	
Multibody	
Systems	
with Design	
Uncertaintie	
s", Wiley,	
2014, pp.	
146-153	
22 Active vibration suppression of труды Proceedings	V.A.
elastic solids by means of конфере of the Sixth	Polyanskiy,
biomorphic control нции World	N.A. Smirnova
Conference	
on	
Structural	
Control,	
Barcelona,	
July 15-17,	
2014.	
23 Теоретические и труды Управлени	Полянский
экспериментальные исследования конфере е в	В.А., Смирнова
биоморфных алгоритмов нции морских и	Н.А. Федотов
управления распределенными аэрокосмич	А.В.
системами еских	11,10,
CVMAC	
(YMAC-	
2014), C	
Петербург,	
2014	

24	Обнаружение и идентификация подводной аномалии	труды конфере нции	Управлени е в морских и аэрокосмич еских системах (УМАС-2014), С	Полянский В.А., А.А.Суханов
			Петербург, 2014	
25	Биоморфное управление в задаче об активном подавлении колебаний	статья	«Вестник Санкт- Петербургс кого университе та» Серия 1 Математик а, механика, астрономия , Выпуск 1, 2014 год, С. 96-106	Котов В.В., Полянский В.А., Смирнова Н.А.
	ебно-методические труды			
1.	Dynamics of Mechanical Systems with Variable Mass	книга	CISM- Internationa 1 Centre for Mechanical Science Series, Springer, 2014, 266 p.	H.Irschik

7. Наиболее значимые работы за предшествующие годы (указываются по усмотрению претендента без дублирования с п.6):

N_0N_0	Наименование работы, ее вид	Форма	Выходные	Объем в	Соавторы
ПП		работы	данные	П.Л.	
1	2	3	4	5	6
1. H	аучные труды				
1	Integral theories of random vibration	статья	Random	20c./	V.A.Palmov
	of complex structures		Vibration -	10c.	
			Status and		
			Recent		
			Development		
			s, Eds		
			I.Elishakoff		
			and		
			R.H.Lyon,		

Stability analysis of drillstring rotation Stability of Systems, 1995, 10, No. 2, pp. 99-110.		T	1		I	
2 Wibrational state of complex mechanical structures under broadband excitation. 2 Wibrational state of complex mechanical structures under broadband excitation. 3 High-frequency vibration of extended complex structures 3 High-frequency vibration of extended complex structures 4 Stability analysis of drillstring rotation 5 Combined integral and FE analysis of broad-band random vibration in structural members 5 Combined integral and FE analysis of broad-band random vibration in structural members 6 Comparative study of various approaches to stochastic elastic wave propagation 7 Simulation of the Duffing oscillator with time-varying mass by a BEM in time 8 Thermodynamic derivation of dynamic boundary value problem and heat conduction equation for polarised thermoelastic materials 9 Parametric instability of polygonal Mindlin-Reissner plates subjected to harmonic in-plane forces 10 Cratible State of Cratible State of Sound and Vibration, 242, No. 3, pp. 397-409, 2000. 11 Cratible Solida and Structures, 13 Durnal of Sound and Vibration, 242, No. 3, pp. 397-409, 2001.				Elsevier,		
2 Vibrational state of complex mechanical structures under broadband excitation. 38.						
Vibrational state of complex mechanical structures under broadband excitation. Catalog Solids and Structures, 1991, 27, No. 7, pp. 811-823. Int. Journal of Probabilistic Engineering Mechanics, 8, 15-24, 1993 Int. Journal of Probabilistic Engineering Mechanics, 8, 15-24, 1993 International Journal J						
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Structures, 1991, 27, No. 7, pp. 811 - 823. 3 High-frequency vibration of extended complex structures 10 c. 7, pp. 811 - 823. 11 c. Journal of Probabilistic Engineering Mechanics, 8, 15-24, 1993 4 Stability analysis of drillstring rotation 5 Combined integral and FE analysis of broad-band random vibration in structural members 5 Combined integral and FE analysis of broad-band random vibration in structural members 6 Comparative study of various approaches to stochastic elastic wave propagation 7 Simulation of the Duffing oscillator with time-varying mass by a BEM in time 8 Thermodynamic derivation of dynamic boundary value problem and heat conduction equation for polarised thermoelastic materials 9 Parametric instability of polygonal Mindlin-Reissner plates subjected to harmonic in-plane forces Structures, 1991, 27, No. 7, pp. 811 and Journal Of Probabilistic Engineering Mechanics, 10 c./ac. P.Fischer, H.J. Pradlwarter 10c./3c. P.Fischer, H.J. Pradlwarter 10c./3c. P.Fischer, H.J. Pradlwarter 10c./3c. P.Fischer, H.J. Pradlwarter 11c. Mechanica 125 No. 1-4, pp. 3-16, 1997. 11c. Mechanica, 14c. Mechanica, 14d. No.1, pp. 119-129, 2000. 11c. M.Baldinger, H.Irschik						
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	in slender structures		Journal of Acoustics and Vibration, 8, No. 3, pp.89-		F.Ziegler
11	Evolutional dynamics and stability of dissipative solids	статья	97, 2003. Acta Mechanica, 195, No. 1-4, pp. 365-377, 2008.	13c./7c.	B.A. Smolnikov

- 8. Индекс Хирша по Scopus 6
- 9. Количество публикаций в базах данных Scopus за последние три года 7.
- 10. Опыт научного руководства и консультирования (за последние 3 года):

Количество		Тема исследования	Научная специальность	Дата защиты (месяц, год)
ВКР бакалавров	0			, , ,
ВКР специалистов	0			
Магистерские диссертации	2	1. Динамика и устойчивость бурильной колонны 2. Подавление колебаний балки пьезоэлектрическими актуаторами	01.02.06 01.02.04	18.06.2013 03.07.2014
Кандидатские диссертации	1	1. Изменение структуры и разрушение материалов, содержащих водород	01.02.04	03.10.2013
Докторские диссертации	0			

Число выпускников аспирантуры / число защитившихся в срок: 1/1

- 11. Опыт учебно-методической работы за последние 3 года:
- число разработанных и реализованных курсов (название курса и на каком направлении\специальности реализован): 1, Строительная механика, для студентов 7-го семестра по направлению «Прикладная механика»
- число учебников, учебных пособий, прошедших редакционно-издательскую обработку (название, название изд-ва и город, год издания, кол-во страниц): 0
- 12. Количество заявок, поданных за последние три года, с целью получения финансирования на выполнение научных исследований:
 - от российских научных фондов 5
 - от зарубежных научных фондов 0

Количество договоров на выполнение научных исследований, в которых за последние три года претендент участвовал в качестве руководителя (ответственного исполнителя), с указанием года заключения, срока, названия и объема финансирования каждого:

- от российских научных фондов: 5

Руководитель гранта РФФИ «Исследование нано и микро масштабных факторов, определяющих усталостную прочность материалов и конструкций с учетом диффузноподвижных газовых компонент сплошной среды», 2011-2013, финансирование 2012г. - 475.000,-; 2013г. - 470.000,-.

Руководитель гранта РФФИ «Организация и проведение международной конференции "Advanced Dynamics and Model-Based Control of Structures and Machines" (Современная динамика и модельно-ориентированное управление сооружениями и машинами)», финансирование $2012 \, \Gamma$. -130.000,-

Руководитель гранта РФФИ «Организация 11й сессии международной научной школы "Фундаментальные и прикладные проблемы надежности и диагностики машин и механизмов" (ВПБ-2013)», финансирование 2013г. — 250.000,- .

Руководитель гранта РФФИ «Исследование влияния диффузии подвижного водорода на процессы замедленного разрушения под действием случайных нагрузок», 2014-2016, финансирование 2014 г. – 540.000,- .

Руководитель гранта «Российско-австрийский грант РФФИ «Эйлерова механика ремней», 2014-2016, финансирование 2014г. - 1.000.000,-

- от зарубежных научных фондов: 0
- из других источников: 1

Руководитель государственного задания Министерства образования и науки РФ «Разработка расчетно-экспериментальных моделей реальных процессов, машин и конструкций и решение актуальных проблем механики с целью получения уточненной оценки ресурса и срока службы», 2014-2016, финансирование 2014 г. — 5.000.000, -

13. Сведения об экспертной деятельности (членство в диссертационных советах, Экспертном совете ВАК, научно-технических РАН, иных советах)

Член диссертационных советов

- 1. Д212.229.05 при Санкт-Петербургском Политехническом Университете, специальность 01.02.04 «Механика деформируемого твердого тела»
- 2. Д212.229.13 при Санкт-Петербургском Политехническом Университете, специальность 01.02.06 «Динамика, прочность машин, приборов и аппаратуры»
- 3. Д212.227.04 при Университете информационных технологий, механики и оптики, специальность 05.02.18 «Теория механизмов и машин»
- 14. Сведения о членстве в редколлегиях научных журналов, оргкомитетах научных конференций

Международные научные журналы:

- 1. International Journal of Vibration and Control, Associate Editor, c 2014 Γ.;
- 2. International Journal Acta Mechanica, Russia Coordinator, c 2002 Γ.;
- 3. International Journal of Structural Control and Health Monitoring, c 2012 r.;
- 4. International Journal "Mechanics of Advanced Materials and Modern Processes", c 2013 r..
- 5. Zeitschrift für Angewandte Mathematik und Mechanik (ZAMM), c 2004 r.;

Российские журналы:

- 1. "Наносистемы: физика, химия, математика», зам. главного редактора по направлению механика, с 2011 г.;.
- 2. Вестник Пермского национального исследовательского политехнического университета. Механика, с 2013 г.

Председатель (сопредседатель) международных конференций

- 1. INTAS-Symposium "Advanced Dynamical Modeling in Structural Control", Vienna, July 5-7 2004.
- 2. Fourth European Conference on Structural Control, September 8-12 2008, St. Petersburg, Russia
- 3. IUTAM (International Union for Theoretical and Applied Mechanics) Symposium on Vibration Analysis of Structures with Uncertainties, July 5-9 2009, St. Petersburg, Russia
- 4. Joint Russian-Austrian Conference on Advanced Dynamics and Model-Based Control of Structures and Machines, April 2010, Linz, Austria
 - 5. Fifth European Conference on Structural Control, Genoa, June 17-20 2012
- 6. International Conference on Advanced Dynamics and Model-Based Control of Structures and Machines, July 2-4 2012, St. Petersburg, Russia.
- 15. Сведения о почетных и академических званиях, международных, государственных, академических и иных премиях, победах в международных и всероссийских конкурсах
 - 1. Почетный доктор Университета им. Йоханнеса Кеплера, Линц. Австрия, 2012;
- 2. Thomas A. Jaeger Prize (main prize) of the International Association for Structural Mechanics in Reactor Technology, 1993.
- 16. Иные сведения о научно-педагогической /творческо-исполнительской деятельности (по усмотрению претендента)

Перевод классических книг по механике с русского языка на английский для издательства Springer:

- 1."Vibrations of elasto-plastic bodies" by V.A.Palmov, Springer-Verlag, Berlin-Heidelberg, 1998, 311p.
- 2. "Nonlinear dynamics of active and passive systems of vibration protection" by M.Z.Kolovsky, Springer-Verlag, Berlin-Heidelberg, 1999, 426 p.
 - 3. "Analytical mechanics" by A.I. Lurie, Springer-Verlag, Berlin-Heidelberg, 2002, 864 p.
- 4. "Dynamics of synchronising systems" by R.F. Nagaev, Springer-Verlag, Berlin-Heidelberg, 2002, 326p.
- 5. "Dynamics of mechanical systems with Coulomb friction" by Le xuan Anh, Springer-Verlag, Berlin-Heidelberg, 2003, 284p.
 - 6. "Theory of elasticity" by A.I. Lurie, Springer-Verlag, Berlin-Heidelberg, 2005, 1050 p.
- 7. "Nonlinear electromechanics" by D.Yu.Skubov and K.Sh.Khodzaev, Springer-Verlag, Berlin-Heidelberg, 2008, 410 p.

Соискатель		/ Беляев Александр Константинович /
	(подпись)	(Фамилия, Имя, Отчество)