

## RASHIT A. NAZIROV

**Present position:** Siberian Federal University, Advisor to the Rector, Head of the Chair “Structural Design and Real Estate Examination, School of Engineering and Construction

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Date of birth: 13.04.57

Education: что закончили?

1990 – **Candidates Degree (PhD), Engineering:**

Thesis: “Free oxides hydration in ash composition sand high-lime ash-based material properties”, Novosibirsk

2003 – **Doctoral Degree (D.Sc), Engineering**

Thesis: “Development of scientific principles and methods of radiation-safe, ecologically sound tailored material”, Tomsk, 2003.



### Advanced training for the last 5 years

- 2007, advanced training, diploma ПП № 982035 ГОУ ВПО (State Educational Institution of Higher Professional Education) «Academy of Standardization, Metrology and Certification», 09.30.2007;
- 2009, certificate of short-term advanced training on the basis of "Energy Inspection (Energy Audit) of Industrial Enterprises and Housing Facilities" ФПКПС (Teacher Professional Development Faculty) ГОУ ВПО (State Educational Institution of Higher Professional Education) “Moscow Power Engineering Institute”.

### Employment period of scientific and pedagogical activity: 30 years

#### Major teaching disciplines:

- Heat engineering and heat engineering equipment of construction industry
- physicochemical methods of building materials analysis;
- life cycle of structures;
- computer-oriented engineering problems solution.

### Research and social activities:

- Member of SFU Academic Council, deputy chairman of the Dissertation Council ДМ 212.099.08 with a specialization in 05.23.01 Building Structures (engineering sciences) and 05.23.05 Building materials and products (engineering sciences), Master and doctoral programs' research supervisor, SFU small business general manager;
- Member of attestation commissions of the Ministry of Construction and Architecture of the Krasnoyarsk Territory Government and Service of Construction Supervision and Krasnoyarsk Territory housing control.

### Research Interests:

- Development of compositions and methods of low natural radiation, ecologically sound tailored radon permeability materials;
- Development of new methods for radioactive emanation radiometry –based material structure analysis;
- Study of natural background radiation of buildings and structures;
- Development of architectural and planning concepts and engineering solutions for radiation-safe structures and premises;
- Spatial rational planning and design solutions focused on investment efficiency improvement, energy-saving and resource-conscious, human comfort-oriented technologies;
- Development of compositions, study of structure and properties building materials to improve energy saving and efficiency of erected buildings and structures

### Major Publications:

- R.A. Nazirov, Experimental evaluation of natural radionuclides leaching during high-lime ash handling/ R.A. Nazirov, C.L. Rogachev // Scientific and theoretical Journal Izvestiia Vuzov (Higher Schools' News) "Construction" – Novosibirsk: NSACU, 2008.-№1-pp. 98-101 (available in Russian)
- R.A. Nazirov. Low natural radioactivity cement concrete / R.A. Nazirov, E.V. Peresytkin, I.V. Tarasov // Informational scientific and technical journal "Technologies of concrete" – M., 2008. - №3. – pp. 8–9 (available in Russian)
- R.A. Nazirov. Software systems for improvement of reliability of the thermal imaging surveys' results / R.A. Nazirov, D.A. Mikheev, E.V. Peresytkin, O.V. Solovieva // Building Materials: Monthly scientific-technical and industrial journal. – 2007. - № 7. – pp. 52-53 (available in Russian)
- R.A. Nazirov. Validation of indexes for the permissible level of the required thermal resistance reduction using complex energy indexes in computing the life of walling / R.A. Nazirov, E.N. Zakhariin, D.R. Nazirov / Scientific and theoretical Journal Izvestiia Vuzov (Higher Schools' News) "Construction" – Novosibirsk: Novosibirsk State University of Architecture and Civil Engineering, 2010.-№10(available in Russian)
- R.A. Nazirov. Experimental evaluation of radon concentration in drinking water / R.A. Nazirov., A.A. Romanova, E.V. Peresytkin, I.V. Tarasov // Izvestiia Vuzov (Higher Schools' News). Construction. – 2010 №2 (614). – pp. 75–78. (available in Russian)
- R.A. Nazirov, Experimental evaluation and comparative analysis of the materials' emanation into water and air / R.A. Nazirov, A.A. Romanova // Vestnik of the Irkutsk State Technical University. – 2010 №4 (44). – pp. 101–104(available in Russian)

- R.A. Nazirov, A.N. Volkov, L.M. Fatkulina-Ias'kova, Lightweight coarse aggregate concrete thermal conductivity simulation. Izvestiya of the Kazan State University of Architecture and Engineering. – 2013.№ 2 (24). – pp. 238–246(available in Russian)
- R.A. Nazirov, T.V. Belov, Features of the formation of temperature fields in the vicinity of the anchor frame fixing ventilated facades. Izvestiia Vuzov (Higher Schools' News). "Construction" – Novosibirsk: Novosibirsk State University of Architecture and Civil Engineering, 2013. – № 6. – pp. 76–83(available in Russian)
- S.A. Kurguz, Extreme emanation from rock in high moisture conditions / S.A. Kurguz, R.A. Nazirov, I.V. Tarasov // AHPИ (Equipment and News of Radiation Measurements) №1 (76) – 2014. pp.29–38 ISSN 2075-1338(available in Russian)
- G.E. Nagibin, R.A. Nazirov, S.S. Dobromyslov, E.N. Fedorova, V.E. Zadov, V.A. Shevchenko, Bonding substance on the basis of technical sulfur and ash waste. Journal of Siberian Federal University. Engineering & Technologies 6 (2013 6) pp. 689-698 (available in Russian)

### **Monograph, text-books teaching aid (last 7 years)**

- R.A. Nazirov. Applying local materials for low rise buildings: technology and mechanization of production / R.A. Nazirov, Iu.A. Nikiforov, V.A. Shevchenko. - Krasnoyarsk: Univers, 2007.-p. 152(available in Russian)
- R.A. Nazirov. General criteria for selection of a design solutions for radon protection of buildings and structure. Laboratory operations manual for the course «Radioecological supervision of construction activities» / S.A. Kurguz, V.V. Kovalenko, E.V. Peresyppkin, Krasnoyarsk: Krasnoyarsk State Academy of Architecture and Construction, 2006. – 23 p. (available in Russian)
- R.A. Nazirov. Classification of design-solution methods for radon -safe buildings and structures . Laboratory operations manual for the course «Radioecological supervision of construction activities» /S.A. Kurguz, V.V. Kovalenko, E.V. Peresyppkin, Krasnoyarsk: Krasnoyarsk State Academy of Architecture and Construction, 2006. – 32 p. (available in Russian)
- R.A. Nazirov. Research methods and quality control of building materials, components and constructions. Laboratory operations manual for students majoring in building / I.G. Endzhievskaya, E.V. Peresyppkin, Krasnoyarsk: Krasnoyarsk State Academy of Architecture and Construction, 2006. – 49 p. (available in Russian)
- V.A. Shevchenko. Resource-saving technologies: Laboratory operations manual for students majoring in program of study "270106" «Building materials, components and construction production» / Iu.S. Shilov, R.A. Nazirov. Krasnoyarsk: Academy of Architecture and Construction, 2007. – 30 p. (available in Russian)
- V.A. Shevchenko. Chemical additives for liquid waste- based concrete: monograph / V.A. Shevchenko, R.A. Nazirov, L.N. Panasenko. – Krasnoyarsk: Siberian Federal University, 2011. – 178 p. ISBN 978-5-7638-2303-5(available in Russian)
- Radiation control of building materials. Land evaluation for erecting radiation-safe residential houses, public and industrial buildings and structures. Radiation control of erected and commissioned buildings [Electronic resource]: Laboratory Practicum [for students majoring in 270114 «Building Design», 270102 «Industrial and Civil Construction», 270106 « Building Materials, Components and Constructions Production»] / Siberian Federal University, School of Engineering and Construction; content by: I.V. Tarasov, R.A. Nazirov, S.A. Kurguz. - Complete text database (PDF, 487 Kб). – Krasnoyarsk: SibFU, 2013. – 46 p. – Heading from the title screen. - Reference list: p. 46. – Pub. № 43(available in Russian)

## Inventor's Certificates and Patents

A.c. 1423519 CCCP (Union of Soviet Socialist Republics) MKI (International Pattern Classification) C 04 B 7/28	Bonding Substance	A. Kh. Nazirov, R.A. Nazirov., V.S. Shibanov, V.N. Shamov, G.N. Kirillov, N.S. Kosobutskii, Iu.E. Nikiforov	Published 09.15.88, Bulletin № 34	Pat.Appl # 09.05.85
A.c. 1350138, CCCP (Union of Soviet Socialist Republics) MKI (International Pattern Classification) C 04 B 7/28	Bonding Substance	R.A. Nazirov., Iu.E. Nikiforov	Published. 09.15.87, Bulletin № 41	Pat.Appl # 11.05.84
A.c. 1682341, CCCP (Union of Soviet Socialist Republics) MKI (International Patent Classification) C 04 B 18/24	Raw Mixture for Production of Wood Concrete	A.Kh. Nazirov, R.A. Nazirov	Published 10.07.91. Bulletin № 37	Pat.Appl # 10.11.88
A.c. 1715783, CCCP (Union of Soviet Socialist Republics) MKI (International Patent Classification) C 04 B 40/00	Method of production of an additive for concrete mixture	R.A. Nazirov, A.Kh. Nazirov	Published. 02.29.92. Bulletin № 8	Pat.Appl # 07.11.89
Invention Patent № 2233818, Russian Federation, 7 C 04 B 40/00, 22/08	Method of Concrete Mixture Production	V.A. Shevchenko, R.A. Nazirov, I.S. Rubailo, V.N. Shamov, D.R. Shul'gin, M.N. Kuchin, I.V. Il'chak, E.A. Pavlov	Published 08.10.2004. Bulletin № 22	Pat.Appl # 07.31.2001
Invention Patent №2333174 Russian Federation, C04B28/04 (2006.01) G21F1/04 (2006.01) C04B111/20	Cement Concrete	R.A. Nazirov, E.V. Peresytkin, V.I. Vereshchagin, I.V. Tarasov, S.A. Kurguz, V.A. Voevodin	Published. 09.10.2008	Pat.Appl # 12.20.2006

Invention Patent №2324939 Russian Federation, G01N 33/49 (2006/01)	Method of Evaluating Endothelial Dysfunction	E.N. Inzhutova, A.B. Salmina, M.M.Petrova, R.A. Nazirov, M.Ia. Iamanova	Published 05.20.2008	Pat.Appl # 03.09.2007
Патент на изобретение № 2374404 Russian Federation, МПК E 04 B 1/92	Safety Methods Against Radon Ingress in Building Premises	R.A. Nazirov, E.V. Peresyphkin, S.A. Kurguz	Published 2009 Bulletin № 33 (part III)	Pat.Appl # 06.25.2007
Utility Model № 103512 Russian Federation, МПК (International Patent Classification) B28B13/02 (2006.01).	Mobile Mixing and Molding Unit	R.A. Nazirov, A.Iu. Nikiforov	Published 04.20.2011 Bulletin № 11	Pat.Appls #: 2010148819/03, 11.29.2010
Patent №2452708 Russian Federation, МПК (International Patent Classification) C04B 28/08 (2006.01), C04B 111/20 (2006.01).	Cement Concrete	V.A. Shevchenko, R.A. Nazirov, L.N. Panasenko	Published 06.10.2012, Bulletin № 16	Pat.Appl # 12.01.2010;
Utility Model № 103511 Russian Federation, МПК (International Patent Classification) B28B13/02 (2006.01).	Mobile Mixing and Molding Unit	R.A. Nazirov, A.Iu. Nikiforov	Published 04.20.2011 Bulletin № 11	Pat.Appl # 11.29.2010
Utility Model № 103538 Russian Federation, МПК (International Patent Classification) E01C19/48 (2006.01).	Mobile Concrete Distributor	R.A. Nazirov, A.Iu. Nikiforov	Published 04.20.2011 Bulletin № 11	Pat.Appl # 11.29.2010

### Participation in international conferences

Full name of the international conference	Organizer	Date and Venue	Full bibliographic description of the article in the works or materials of the conference	Full name of the international conference
Fourteenth International Interuniversity scientific conference of young scientists, PhD and post-graduate students. – M. : МФСУ, 2011. – Pp. 277–279.	MGSU	Moscow, MGSU, 2011	Zakhariin, E. N. / Method for the determination of the acceptable level of heat properties reduction in enclosing parts [Text] / E.N. Zakhariin, R.A. Nazirov// Construction as a living environment formation: collected works of Fourteenth International Interuniversity scientific conference of young scientists, PhD students and post-graduate students. – M. : MGSU, 2011. – Pp. 277–279.	Fourteenth International Interuniversity scientific conference of young scientists, PhD and post-graduate students. – M. : МФСУ, 2011. – Pp. 277–279.
6-th ECCOMAs Conference on Smart Structures and Materials	Hong Kong University of Science and Technology, Department of Civil and Environmental Engineering Clear Water Bay Road	Hong Kong, 24-26 June 2013 c.13	Thermal Performance Of Large-Scale Pre-Insulated Building Envelop In Hong Kong. Moe M.S. Cheung*, Andrey Chernousov, Rashit Nazirov, Ben Y.B. Chan, Wang/The Hong Kong University of Science and Technology, Department of Civil and Environmental Engineering Clear Water Bay Road, Hong Kong, 6-th ECCOMAs Conference on Smart Structures and Materials, 24-26 June 2013 c.13	6-th ECCOMAs Conference on Smart Structures and Materials

<p>Environmental and Conservation Economics. XVI International Scientific and Practical Conference.</p>	<p>International Academy of Ecology and Life Protection Sciences (MANEB)</p>	<p>Penza, June 2013. Pp. 40...42.</p>	<p>G.E. Nagibin, R.A. Nazirov, S.S. Dobrosmyslov, V.A. Shevchenko, E.N. Fedorova. Derivation of Sulphur Bonding Substance Based on Industrial Waste of Metals and Fuel Companies. Environmental and Conservation Economics. XVI International Scientific and Practical Conference. International Academy of Ecology and Life Protection Sciences (MANEB). Collected works, Penza, June 2013. Pp. 40...42.</p>	<p>Environmental and Conservation Economics. XVI International Scientific and Practical Conference.</p>
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