

PERSONAL INFORMATION



Martins Vilnitis

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Sex M | Nationality Latvian

WORK EXPERIENCE

November 13, 2015 to present - Riga Technical University, Director of the Institute of Construction Technology;
 November 1, 2013 to present - Riga Technical University, Director of study program "Civil Engineering";
 July 1, 2011 to present - Riga Technical University, Head of the Department of Construction Technology;
 September 1, 2006 to September 1, 2014 - Riga Technical University, Assistant Professor;
 September 1, 1995 to September 1, 2006 - Riga Technical University, Lecturer;
 February 8, 2007 to present - MV Consult Ltd, the Owner, the company is engaged in real estate valuation and construction supervision;
 September 1, 2003 to September 30, 2006 - DnB NORD Bank, the Head of the Real Estate Valuation Division,
 May 21, 2001 to June 3, 2002 - Ober-Haus Vertesanas Serviss Ltd, Real Estate Appraiser Assistant;
 January 3, 2000 to August 31, 2003 – Auditorfirma Gramatvedis Ltd, Real Estate Appraiser Assistant;
 January 1, 2000 to June 30, 2003 – Pasvaldibu Ekonomiskas Attistibas Fonds (Municipal Economic Development Fund), Project Manager;
 August 2, 1999 to February 1, 2001 – J.O.Z .PEAB Group Ltd, Building Project Manager;
 January 21, 1997 to August 1, 1999 - Restoration Society "Velve", Civil Engineer - Estimator;
 September 25, 1995 to June 30, 1996 - Ogre District Central Hospital, Construction Technical Supervisor.

EDUCATION

2005 - 2011 - Riga Technical University, Faculty of Civil Engineering, Doctor of Engineering;
 1994 - 1996 - Riga Technical University, Faculty of Civil Engineering, Master Degree;
 1989 - 1994 - Riga Technical University, Faculty of Civil Engineering, Bachelor of Engineering and Civil Engineering;
 1978 - 1989 - Ogre High School.

Academic Titles and Degrees

Professor, Riga Technical University, Department of Construction Technology, since 2017.
 Associate Professor, Riga Technical University, Department of Construction Technology, 2014 - 2017.
 Doctor of Engineering since 2011,
 Assistant Professor, Riga Technical University, Department of Construction Technology, 2006 - 2014.
 Master of Engineering since 1996,
 Lecturer, Riga Technical University, Department of Construction Technology, 1995 - 2006.
 Bachelor of Engineering since 1994.

Mother language Latvian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	interaction	production	
Russian	A1/2	A1/2	A1/2	A1/2	A1/2
English	A1/2	A1/2	A1/2	A1/2	B1/2

Skills

Communication skills

- Excellent verbal and written communication skills , because of Riga Technical University. Experienced at giving presentations to large audiences.

Organisational / managerial skills

- Riga Technical University, Director of study program “Civil Engineering” and Director of the Institute of Construction Technology.
- Latvian Union of Civil Engineers, Member of the Board .

Job-related skills

- LBS Builder's Certificate Nr. 5-00103 (permit of construction supervision) and Nr. 4-00107 (permit of construction management).
- Construction science building materials and industry building technologies sub-sector in the following areas - Building envelope thermal performance research and New technologies for the construction.

Digital competence

- Excellent Microsoft Office™

Other skills

- LIVA Certificate No 90 (evaluation of real estate)

Scientific Publications

1. Vilnītis M., Noviks J., Gaujēna B., Paplavskis J. „Impact of external factors on humidity migration processes in walls made from autoclaved aerated concrete.” – Proc. Heat transfer 2010, June 14-16, 2010, Tallinn, Estonia, p. 279-290.
2. Vilnītis M., Noviks J., Gaujēna B. „Heat and moisture transfer processes modelling in walls made from autoclaved aerated concrete.” – Proc. First Central European Symposium on Building Physics, September 13-15, 2010, Cracow, Poland, p. 113-120.
3. Gaujēna B., Vilnītis M. „Heat Transfer in External Walls Made from Autoclaved Aerated Concrete” Proceedings of the International Scientific Conference "Renewable Energy and Energy Efficiency", 2012, Latvia University of Agriculture, 218–223. pp.
4. Rubene S., Noviks J., Vilnītis M. „Determination of humidity level in aerated concrete constructions by non destructive testing methods.”, Proceedings of the International Conference „Innovative Materials, Structures and Technologies”, RTU, November 2013.
5. Rubene S., Vilnītis M. „Application of electrical impedance spectrometry for determination of moisture distribution in aerated concrete constructions.”, Proceedings of 1 st Conference and Working Session within the Framework of the International Programme EUREKA, Brno University of Technology, Czech Republic, October 2013.
6. Rubene, S., Vilnītis, M., Noviks, J. Impact of Contact Surface on Accuracy of Humidity Distribution Measurements in Autoclaved Aerated Concrete Constructions by EIS. No: Proceedings of 1st International Conference on Civil Engineering, Water Resources, Hydraulics and Hydrology (CEWHH 2014), Grieķija, Athens, 28.-30. novembris, 2014. Athens: EUROPMENT, 2014, 99.-104.lpp. ISBN 978-1-61804-253-8.
7. Rubene, S., Vilnītis, M. Correlation between EIS Measurements and Relative Humidity Distribution in Aerated Concrete Masonry Constructions. No: *Recent Advances in Civill Engineering and Mechanics. Mathematics and Computers in Science and Engineering Series 35*, Itālija, Florence, 22.-24. novembris, 2014. Florence: WSEAS Press, 2014, 67.-72.lpp. ISBN 978-960-474-403-9. ISSN 2227-4588.
8. Rubene, S., Vilnītis, M. Monitoring of Humidity Distribution Changes in Aerated Concrete Masonry Construction by EIS. No: *EUREKA 2014: 2nd Conference and Working Session Proceedings*, Čehija, Brno, 30.-31. oktobris, 2014. Brno: VUTIUM Brno University of Technology, 2014, 124.-130.lpp. ISBN 978-80-214-4883-4.
9. Rubene, S., Vilnītis, M., Noviks, J. Monitoring of the Aerated Concrete Construction Drying Process by Electrical Impedance Spectrometry. No: *Proceedings of 4th International Conference "Advanced Construction 2014"*, Lietuva, Kaunas, 9.-10. oktobris, 2014. Kaunas: Kaunas University of Technology, 2014, 216.-220.lpp. ISSN 2029-1213.
10. Rubene, S., Noviks, J., Vilnītis, M. Determination of Humidity Level In Aerated Concrete Constructions by Non Destructive Testing Methods. No: *Proceedings of the International Conference "Innovative Materials, Structures and Technologies"*, Latvija, Riga, 8.-8. novembris, 2013. Riga: RTU Press, 2014, 141.-146.lpp. ISBN 978-9934-10-583-8. e-ISBN 978-9934-10-584-5. Pieejams: doi:10.7250/isconstrs.2014.23.
11. Rubene, S., Vilnītis, M. Use of Schmidt Rebound Hammer for Non Destructive Concrete Structure Testing in Field. No: *Inżynieria Przewidywanie Budowlanych 2014 / Technical Transactions Civil Engineering*, Polija, Krakow, 26.-28. jūnijs, 2014. Krakow: Wydawnictwo Politechniki Krakowskiej, 2014, 13.-19.lpp. ISSN 0011-4561.
12. Rubene, S., Vilnītis, M., Noviks, J. Frequency Analysis and measurements of moisture content of AAC masonry constructions by EIS. *Procedia Engineering*, 2015, Vol.108, 647.-654.lpp. ISSN 1877-7058. Pieejams: doi:10.1016/j.proeng.2015.06.194.
13. Rubene, S., Vilnītis, M. Application of Electrical Impedance Spectrometry for Measurements of Humidity Distribution in Aerated Concrete Masonry Constructions. *International Journal of Mechanics*, 2015, Vol.9, 213.-219.lpp. ISSN 1998-4448.

Scientific Publications

14. Rubene, S., Vilnītis, M., Noviks, J. Frequency Analysis for EIS Measurements in Autoclaved Aerated Concrete Constructions. No: 7th Scientific-Technical Conference "Material Problems in Civil Engineering" (MATBUD'2015): Book of Abstracts, Polija, Krakow, 22.-24. jūnijs, 2015. Krakow: Krakow University of Technology, 2015, 42.-42.lpp.
15. Rubene, S., Vilnītis, M., Noviks, J. Impact of Masonry Joints on Detection of Humidity Distribution in Aerated Concrete Masonry Constructions by Electric Impedance Spectrometry Measurements. International Journal of Civil, Architectural, Structural and Construction Engineering, 2015, Vol.9, No.1, 1089.-1094.lpp. e-ISSN 1307-6892.
16. Vilnītis M., Usmen M. A. „Evaluation of Safety, Quality and Productivity in Construction”, 2nd Scientific Conference „Innovative Materials, Structures and Technologies”, Riga Technical University, 30 September – 2 October, 2015.
17. Rubene, S., Vilnītis, M., Noviks, J. „Impact of External Heat Insulation on Drying Process of Autoclaved Aerated Concrete Masonry Constructions”, 2nd Scientific Conference „Innovative Materials, Structures and Technologies”, Riga Technical University, 30 September – 2 October, 2015.

Conferences

18. Rubene, S., Vilnītis, M. Monitoring of Water Infiltration in Autoclaved Aerated Concrete Masonry Construction Blocks by Electrical Impedance Spectrometry. In: Recent Advances in Mechanical Engineering Series 17 "Fluids, Heat and Mass Transfer, Mechanical and Civil Engineering", Hungary, Budapest, 12-14 December, 2015.
19. Rubene, S., Vilnītis, M. Accuracy of Humidity Distribution Measurements in Autoclaved Aerated Concrete Constructions by Electrical Impedance Spectrometry. In: EUREKA 2015 Proceedings, Czech Republic, Jaromerice nad Rokytnou, 15-16 October, 2015. Brno: 2015, pp.156-164. ISSN 2464-4595Budapest: WSEAS Press, 2015, pp.106-111. ISBN 978-1-61804-358-0. ISSN 2227-4596.
20. Rubene, S., Vilnītis, M. Impact of Porous Structure of the AAC Material on Moisture Distribution throughout the Cross Section of the AAC Masonry Blocks. WSEAS Transactions on Heat and Mass Transfer, 2016, Vol.11, pp.13-20. ISSN 1790-5044. e-ISSN 2224-3461..
21. Gjunsburgs, B., Lauva, O., Jaudzems, G., Vilnītis, M. Time of Scour at Elliptical Guide Banks. In: People, Buildings and Environment 2016: Conference Proceedings. Vol.4, Czech Republic, Luhačovice, 29 Sep-1 Oct., 2016. Brno: Brno University of Technology, 2016, pp.1-10. ISSN 1805-6784.

Participant of more than 20 international and local conferences.

Board of reviewers in Scientific and Technical conference Construction Engineering projects, Cracow, June 2014.

Member of the Scientific Committee in Students' Science Conference, Wrocław University of Technology, September, 2015., 2016. and 2017.

Member of the Scientific Committee in ITALIAN RADON and NORM WORKSHOP (IRANOW2015), "RESEARCH ADVANCES ON RADON AND NORM APPLICATIONS", University of Salerno, 15 – 17 October, 2015.

Member of the Editorial board "People, Buildings and Environment 2016", Brno University of Technology, 29 September – 1 October, 2016.

- Seminars** In collaboration with leading construction industry companies there are regularly organized construction sites tours and seminars for students to demonstrate advanced building technologies.
Collaboration with professors Michele Guida & Enrico Sicignano, University of Salerno.
Collaboration with Professor Jana Parilkova, Brno University of Technology.
Collaboration with Professor Bozena Hola, Wroclaw University of Technology.
Visiting lecturer Brno University of Technology on topic "Moisture migration and heat flow processes in building structures", June 19.-26., 2013.
Visiting lecturer Wroclaw University of Technology on topic „Technology of building repair works”, March 16.-20., 2014.
Visiting lecturer University of Salerno on topic „Technology of building repair works”, May 10.-19., 2014. and May 8.-18., 2015.
- Research Society member** Latvian Union of Civil Engineers, Member of the Board since 27 March, 2015, Construction - science section, Commission Member since 2010.
Latvian Association of Property Appraisers, Professional Education Committee Member 2009 - 2012.
Jury member of the contest "Building industry's annual award" in 2013., 2014., 2015., 2016. and 2017.
Jury member of the contest "Year's best building in Latvia" in 2015., 2016. and 2017.
Student Fraternity Tervetia, Philistine since the II semester, 1995.
- References** Riga Technical University, Faculty of Civil Engineering, Professor Juris Smirnovs.
LBS Chairman of the Board Martins Straume.