



Dr. Kiril Gramatikov, grad. civil eng., full time professor at the Department for Concrete and Wood Structures was born in Doyran, R. Macedonia, on 11.06.1948. He graduated from the Civil Engineering Faculty in Skopje in 1973. After the graduation, he was elected assistant at the Department for Wood, Massive and Steel Structures with Bridges in the subjects Wood Structures and Bridges, Massive Structures I and II and Massive Bridges. He also participated in the realization of the students' drills in the stated subjects. He took his master degree in 1984 in the field of Stability of Structures Made of Glued Laminated Wood. In 1990, he defended his doctoral theses in the field of experimental static, dynamic and numerical analysis of wood elements and buildings at IZIIS whereat he was conferred the scientific title of Doctor of Technical Sciences. In 1990, he was elected Associate Professor in the following subjects: Wood Structures, Technology of Concrete, Reinforced Concrete Structures I and II, Bridges and Reinforced Concrete Bridges at the Civil Engineering Faculty in Skopje. In 1994, he was elected Professor at the Department of Concrete and Wood Structures and Technology of Concrete. The wider field of his expertise includes: mechanical and rheological properties of concrete and wood, static, dynamic and experimental analysis of timber, reinforced concrete and prestressed elements and structures, design and supervision of construction of structures of capital importance, experimental and analytical evaluation of bearing capacity and stability and structural strengthening of existing buildings and facilities of special historic importance, evaluation of technical standards and regulations, etc. Noteworthy is his participation in the scientific-research work for the realization of domestic and particularly international bilateral and multilateral scientific-research projects and presentation of own and joint scientific-research papers and projects at important world and international conferences and workshops, as well as his participation in the procedure for admittance of R. Macedonia in the European Programme COST in 2002, participation in the COST actions in the stated fields of his expertise, as well as participation as coordinator and leader of experimental tests within the FP6 project PROHITECH financed by the European Commission. He was chairman at a number of sessions of international conferences and symposia. COST National Coordinator since 2009.

More important published scientific-research papers

- [1] K.Gramatikov, P.Gavrilovic, "Full-scale Testing of Truss-frame Wooden Structure", International Timber Engineering Conference, 1990 Tokyo, Japan, Vol.3 p.p 865-872
- [2] K.Gramatikov, P.Gavrilovic, "Experimental and Theoretical Investigation of Wooden Structures Under Quasy-static and Dynamic Loads", Proceedings of the Workshop on Full-scale Behavior of Low-rise Wood-Framed Buildings, London, August, 1991
- [3] K.Gramatikov, P.Gavrilovic, " Full-Scale Shaking Table Tests on a Single-Storey Wooden House", Proceedings of the International Conference on Timber Engineering, London, September 1991, Vol. 1 pp.1.155-1.163
- [4] K.Gramatikov, "Case Studies of Damaged Glued Laminated Timber Structures", Proceedings of the International Wood Engineering Conference, New Orleans, USA, October,1996, Vol.3 p.p. 3.354 - 3.361
- [5] K.Gramatikov : "Wood Structures in Macedonia and the Balkan Region- Research Needs and Goals", - Proceedings of the ASCE Workshop "Wood Engineering in the 21st Century, Portland, Oregon, USA, April 1997
- [6] K.Gramatikov, "Test Results on Metal-plate Fastener Joints for Monotonic and Cyclic Loads", Proceedings of the International Conference on Timber Engineering, Rotorua, New Zealand, March, 1999, Vol.3.p.p.370-375
- [7] K.Gramatikov, Timber Buildings in Seismic Regions -The Balkan Region Experience", key-note paper, Proceedings of the Workshop on Seismic Behaviour of Timber Buildings, IUAV Venice, September, 2000
- [8] T. Kocetov, K.Gramatikov, B. Dujic, R. Zarnic "Influence of Loading Protocols on Hysteretic Response of Sheating-to-Framing Nailed Joints in Shear Walls", Proceedings of the International Workshop on Earthquake Engineering on Timber Structures, COST E29, Coimbra, Portugal, November, 2006 p.p.135-142
- [9] K.Gramatikov, "PROHITECH WP7 Final Report on Large-scale Structural Elements Strengthened by Innovative Reversible Mixed Technologies", FP6 Project PROHITECH Deliverable III, A.A.Balkerma Publishers, Leiden, NL, 2008
- [10] K.Gramatikov, M.Aleksovska "Structural Integrity of Wood-based Panels and their Connections", Performance in Use and New Products of Wood-based Composites, publication published by Brunel University Press, London, UB8 3PH, UK, 2009

Scientific-research projects

- [1] P.Gavrilovic, K.Gramatikov, "Dynamic Analysis of Timber Truss Frame Structures", Final Report on USA-YU Project JFP-760/YO-AES-192, IZIIS, Skopje, 1992

- [2] K. Gramatikov, T. Kochetov, T. Arangelovski, "Experimental and Analytical Investigations as a Basis for the Elaboration of National Document for Application of Eurocode 5", National project 1998-2001
- [3] K. Gramatikov, T. Kochetov, T. Arangelovski, "Experimental and Analytical Investigations of Joints of Wood Pre-cast Houses", National project 2001-2004
- [4] K. Gramatikov, T. Kochetov, T. Arangelovski, "Behaviour of Joints of Timber Panels Under Effect of Different Load Protocols", National Project, 2004-2007
- [5] FP6 INCO-MPC1 Project, "Protection of Historic Buildings Against Earthquake by Innovative Reversible Mix Technologies", financed by the European Commission, National Coordinator – Kiril Gramatikov, 2004-2008

More important professional papers and expertises

- [1] **K. Gramatikov**, "Consulting Supervision of Concrete Works on the Facilities of Lisiche Dam, Veles"
- [2] **K. Gramatikov**, "Experimental and Analytical Testing of Bearing Capacity of Roof Structure Made of Glued Laminated Wood, 25x60m, in Brewery (Pivara), Skopje".
- [3] **K. Gramatikov**, S. Tanev, P. Cvetanovski, "Main Project - Bearing Capacity of Coca Cola Plant (7000 m²) in Brewery (Pivara) Skopje".
- [4] **K. Gramatikov**, T. Arangelovski, G. Kokalanov, "Study for Theoretical and Experimental Tests of Bearing Capacity of RC Elements Reinforced with Meshes with Non-standard Welding"
- [5] **K. Gramatikov**, S. Milovanovic, G. Markovski, "Main Project, Phase – Static, Residential Building GF + 4 at 29 Noemvri Str., Debar Maalo, Skopje".
- [6] **K. Gramatikov**, R. Cingarovska, V. Gjurovski, S. Mihajlovski, "Study of the Bearing Capacity of the Glued Laminated Wood Structure of the Sports Hall in Vranje, Serbia".
- [7] **K. Gramatikov**, "Main Project on Reinforced Concrete Power Supply Channel 5x5x600m in Brewery (Pivara), Skopje".
- [8] **K. Gramatikov**, A. Spasov, "Main Project on Repair of Bearing Reinforced-Concrete Structure of the Building of the Economic Chamber of Macedonia, Skopje".
- [9] **K. Gramatikov**, "Main Project on the Wood Roof Structure of the Building – Storage Basement 33x60m in Brewery (Pivara), Skopje".
- [10] **K. Gramatikov**, consulting supervision of concrete works on a number of structures in R. Macedonia, design supervision, review of main projects on structures designed of reinforced concrete and wood, expert opinions and expertises.

Published books, lecture notes and publications

- [1] Wood Structures, published lectures, 1992
- [2] Wood Structures, modified and amended lectures published in 1996
- [3] Fundamentals of Wood Structures, published lectures, 2007
- [4] Technology of Concrete, published selected lectures, 2005
- [5] Bridges and Tunnels (along with Prof. Dr. Zoran Desovski) – lecture notes for the students of the Military Academy
- [6] Fundamentals of Engineering Structures, textbook 1998, (principal author: Dr. Andrej Spasov)

Membership and functions in scientific and professional institutions and organizations

- [1] Member of the Managing Board of Engineering Institution in Macedonia 1998-2002
- [2] Member of the National Committee for Eurocodes-TK 30
- [3] National Delegate of the European Association for Research and Technical Cooperation COST – Domain of Civil Engineering and Urbanism, Brussels, 2006-2010.
- [4] National Representative at the COST-Committee of Senior Officials (CSO), Brussels, 2002-2008
- [5] Member of commissions for external evaluation at the technical faculties in Macedonia 2003-2004
- [6] Member of the Editorial Board of the scientific journal Facta Universitatis, University of Nish, Serbia
- [7] Evaluator and reporter on scientific-research projects COST E24, E35 and 55 in the field of wood structures and COST C26, TU0601, TU0901 in the field of structural engineering
- [8] Member of managing committees of COST projects C12, C16 in the field of structural engineering and E29 и E49 in the field of wood structures
- [9] Vice-dean of the Civil Engineering Faculty in the period 1997-1999 and 1999-2001

Recognitions

- [1] Recognition for special scientific contribution to science awarded by the Yugoslav Association for Testing Materials and Structures, YATMS Congress, 1990, Novi Sad.
- [2] Special recognition - Certificate of Appreciation awarded by USA USDA Agency for Research and Development 1992.
- [3] Recognition awarded by the Association of Structural Engineers of Macedonia for the best scientific-research achievement in 2008, in the capacity of Coordinator of EC FP6 INCO project PROHITECH.