

DEPARTMENT OF STRUCTURAL MECHANICS

Head of the Department:
Králik Juraj, PhD, Assoc. Professor

Tel/Fax: + 421 2 52494332
Email: juraj.kralik@stuba.sk

I. STAFF

Professors

Lovišek Ján, DSc.	+ 421 2 59274 257	jan.lovisek@stuba.sk
Ravinger Ján, DSc.	+ 421 2 59274 532	jan.ravinger@stuba.sk
Sumec Jozef, DSc.	+ 421 2 59274 455	jozef.sumec@stuba.sk

Associate Professors

Dický Jozef, PhD.	+ 421 2 59274 318	jozef.dicky@stuba.sk
Hubová Oľga, PhD.	+ 421 2 59274 641	olga.hubova@stuba.sk
Jendželovský Norbert, PhD.	+ 421 2 59274 364	norbert.jendzelovsky@stuba.sk
Koleková Yvonna, PhD.	+ 421 2 59274 332	yvona.kolekova@stuba.sk
Králik Juraj, PhD.	+ 421 2 59274 690	juraj.kralik@stuba.sk
Marton Pavol, PhD.	+ 421 2 59274 583	pavol.marton@stuba.sk
Mistriková Zora, PhD.	+ 421 2 59274 251	zora.mistikova@stuba.sk
Sokol Milan, PhD.	+ 421 2 59274 448	milan.sokol@stuba.sk

Senior Lecturers

Bekó Adrián	+ 421 2 59274 247	beko@svf.stuba.sk
Ivánková Oľga, PhD.	+ 421 2 59274 260	olga.ivankova@stuba.sk
Prekop Ľubomír	+ 421 2 59274 232	lubomir.prekop@stuba.sk
Psočný Martin, PhD.	+ 421 2 59274 311	martin.psočný@stuba.sk
Tínes Radoslav	+ 421 2 59274 231	tines@svf.stuba.sk
Tvrda Katarína	+ 421 2 59274 291	katarina.tvrda@stuba.sk
Véghová Ivana	+ 421 2 59274 311	ivana.veghova@stuba.sk
Vyskoč Eduard	+ 421 2 59274 445	eduard.vyskoc@stuba.sk

Doctoral Students

Juríček Tomáš	+ 421 2 59274 334	tomas.juricek@stuba.sk
Kosa Tomáš	+ 421 2 59274 256	tomas.kosa@stuba.sk
Králik Juraj	+ 421 2 59274 256	juraj_kralik@stuba.sk
Malast Miroslav	+ 421 2 59274 231	malast@svf.stuba.sk
Španik Peter	+ 421 2 59274 247	peter.spanik@stuba.sk

Technical Staff

Grmanová Alžbeta	+ 421 2 59274 230	alzbeta.grmanova@stuba.sk
Mitro Vladimír	+ 421 2 59274 652	vladimir_mitro@stuba.sk
Poláčková Helena (secretary)	+ 421 2 59274 245	helena.polackova@stuba.sk

II. EQUIPMENT

II.1 Teaching and Research Laboratories

Small laboratory for experimental mechanics

II.2 Special Measuring Instruments and Computers

25 PCs connected to a local network
 Static/dynamic tensometric equipment
 Photoelasticimeter
 Helium-neon laser
 Memory oscilloscope for analysis of dynamic processes

III. TEACHING

III.1 Graduate Study

Architecture and Civil Engineering

Subjects	Semester	Hours Per Week		Lecturer
		Lectures	Seminars	
Statics	2	2	2	Z. Mistríková O. Hubová
Theory of Elasticity	3	3	3	J. Ravinger J. Dický
Structural Mechanics	4	3	2	J. Králík N. Jendželovský
Building Analysis	8	2	2	M. Sokol
Structural Analysis	7	2	2	J. Králík
Structural Dynamics	7	2	2	M. Sokol
Plate and Spatial Structures	8	2	2	J. Sumec
Non-Linear Mechanics	9	2	2	J. Ravinger
Interaction of Structures and Foundations	9	2	2	N. Jendželovský
Special Problems in Dynamics and Statics	10	2	2	Y. Koleková

Engineering Construction

Subjects	Semester	Hours Per Week		Lecturer
		Lectures	Seminars	
Statics	2	3	3	M. Sokol Y. Koleková
Structural Mechanics I	3	3	3	P. Marton J. Dický
Theory of Elasticity I	4	3	2	Y. Koleková Z. Mistríková
Theory of Elasticity II	5	3	2	J. Ravinger
Structural Analysis	6	2	2	N. Jendželovský
Structural Dynamics	7	2	2	P. Marton
Structural Mechanics (English)	7	2	2	J. Dický O. Hubová

Optional Subjects

Subjects	Semester	Hours Per Week		Lecturer
		Lectures	Seminars	
Stability of Structures	8	2	2	J. Ravinger
Plasticity Analysis of Structures	9	2	2	J. Králík
Aeroelastics	9	2	2	O. Hubová
Seismic Engineering	10	2	1	J. Králík
Statics of Reconstructions	10	2	1	N. Jendželovský

Recommended Subjects

Subjects	Semester	Hours Per Week		Lecturer
		Lectures	Seminars	
Use of Computers in Civil Engineering	5	2	2	M. Sokol
Structural Modelling Using FEM	6	2	2	J. Ravinger
Automation in the Statics of Structures	7	2	2	J. Králík
CAD in the Design of Structures	7	0	2	Ľ. Prekop
Automation in Structural Dynamics	8	2	2	J. Králík
Viscoelasticity of Structural Systems	8	2	2	J. Sumec
Automation in Non-Linear Structural Analysis	9	2	2	J. Ravinger
Modelling Subgrades	9	2	2	N. Jendželovský

III.2 Postgraduate Study

Selected Aspects of Structural Mechanics
 Selected Aspects of Applied Mathematics
 Selected Aspects of Applied Physics
 Planar and Spatial Structures
 Mechanics of Bodies Made from Composite Materials
 Finite Element Methods
 Stability of Truss and Planar Structures
 Structural Dynamics
 Optimization of Structures

IV. RESEARCH TARGETS

The research activities of the Department are aimed at problems such as the spatial effects of monolithic and assembled girders, grates, and plates on elastic foundations; the safety and reliability of nuclear power plant buildings under seismic, explosive and impact loads; seismology – the behaviour of building structures in seismic regions; the optimal design of multi-layered two-dimensional structures under static and dynamic loads; limiting the strain and collapse of structures; static and dynamic analyses of post-buckling behaviour of thin-walled structures; using dynamic post-buckling effects for non-destructive testing of thin-walled structures; singular perturbations in optimal control problems applied to non-linear structural analysis; mechanical responses of intervertebral discs in pathological curvatures of the spine; and the development of computer methods in static, dynamic and non-linear structural analyses.

V. RESEARCH PROJECTS

VEGA

1. Application of Reliability and Durability Aspects in Optimal Design of Structures Having Unilateral Bonds with Respect to Non-Linear Behaviour of Materials (2006-2008, J. DICKÝ, VEGA 1/3312/06)
2. Interaction Between Foundation Structures and Subsoil Considering the Rheological Characteristics of Materials (2005 - 2007, N. JENDŽELOVSKÝ, VEGA 1/2147/05)
3. Probability of Damage to Reinforced Concrete Structures Considering Their Interaction with Subsoil, Extreme Loads and Degradation of Material Properties. Safety and Reliability of Nuclear Power Plants (2005 - 2007, J. KRÁLIK, VEGA 1/2147/05)
4. Effect of Dynamic Effects on the Design and Systemic Identification of Structural Systems (2005 - 2007, M. SOKOL, VEGA 1/2142/05)
5. Residue of the Load-Carrying Capacity and Mechanism of the Collapse of a Structure (2005 - 2007, J. RAVINGER, VEGA 1/2149/05)
6. Biomechanical Response of the Lumbar Part of a Spine under Degenerative Changes and After Implantation of Stabilizing Instrumentaria and Their Clinical Use (2005 - 2007, J. SUMEC, VEGA 1/2156/05)

EU PROJECTS

1. DICKÝ, J.: Socrates – Erasmus Thematic Network, Project: European Civil Engineering Education and Training (EUCEET).
2. DICKÝ, J.: 6th Framework Program on Research, Technical Developments and Demonstrations - Marie Curie Host Fellowships for the Transfer of Knowledge - SUT Gliwice - Poland.

VI. COOPERATION

VI.1 Cooperation in Slovakia

1. Institute of Construction and Architecture of the Slovak Academy of Science
2. Technical University of Košice
3. University of Žilina
4. Slovak Society of Mechanics
5. VUJE, Trnava
6. VUEZ Levice
7. Building Testing and Research Institute, n. p. o. Bratislava
8. Dopravoprojekt Bratislava
9. Geoconsult Bratislava
10. Nuclear Power Plants, Jaslovské Bohunice
11. ALLMEDIA spol.s.r.o.
12. OBO BETTERMANN, Bratislava

VI.2 International Cooperation

1. Civil Engineering Institute of the Polish Academy of Science, Poland
2. Technical University of Opole, Poland
3. Silesian University of Technology, Gliwice, Poland

4. Cracow University of Technology, Poland
5. Fakultät der Bauingenieurwesen Ruhr-Universität, Bochum, Germany
6. Bundesformschung und Prufzentrum, Arsenal, Vienna, Austria
7. Czech Academy of Sciences, Prague, Czech Republic
8. Technical University of Ostrava, Czech Republic
9. Brno University of Technology, Czech Republic
10. Czech Technical University in Prague, Czech Republic
11. Budapest University of Technology and Economics, Budapest, Hungary
12. Palacky University in Olomouc, Czech Republic

VI.2.1 Visitors to the Department

1. Dr. Jerzy Skrzypczyk - Silesian University of Technology, Gliwice, Poland
2. Ass. Prof. József Györgyi - Budapest University of Technology and Economics, Hungary
3. Prof. Pavel Marek - Czech Academy of Science, Prague, Czech Republic
4. Prof. Ondrej Fischer - Czech Academy of Science, Prague, Czech Republic
5. Assoc. Prof. Meri Cvetkovska, Faculty of Civil Engineering, Skopje, Macedonia
6. Dr. Ing. Tomasz Krykowski, Silesian University of Technology, Gliwice, Poland

VI.2.2 Visits of Staff Members and Postgraduate Students to Foreign Institutions

1. DICKÝ, J.: Silesian University of Technology, Gliwice, Poland – 3 months.

VII. THESES

VII.1 Bachelor Theses

No.	Student's name	Title	Supervisor
1.	Bartoš Vladimír	Limit-Bearing Capacity of a Frame Structure	J. Dický
2.	Marušic Martin	Limit Load of a Continuous Statically Indetermined Beam	Z. Mistríková
3.	Novoveský Michal	Design and Analysis of Tall Waste Treatment Plant Tank	N. Jendželovský
4.	Sekerka Jaroslav	Design and Analysis of Rectangular Waste Treatment Plant Tank	N. Jendželovský

VII.2 Graduate Theses

No.	Student's name	Title	Supervisor
1.	Brath Anton	Static and Dynamic Analysis of a High-Rise Building	O. Ivánková
2.	Kosa Tomáš	Probabilistic Analysis of Seismic Resistance of a High-Rise Hotel Building	J. Králik
3.	Kotláríková Barbora	Seismic Analysis of a Reinforced Frame Structure	M. Psočný
4.	Králik Juraj	Seismic Analysis of a High-Rise Building	N. Jendželovský
5.	Kuchárik Martin	Static and Dynamic Analysis of a Dwelling House	O. Ivánková

6.	Nemec Ján	Static and Dynamic Analysis of a Multifunctional Building	O. Ivánková
7.	Sopko Tomáš	Static and Dynamic Analysis of a Reinforced Frame (Multifunctional Apartment House)	M. Psotný
8.	Špánik Peter	Optimization of a Thin-Walled Girder Loaded by Bending and Shear	J. Ravinger
9.	Tomašovic Ján	Effects of Non-Rigid Joints for the Load-Bearing Capacity of Frames	J. Ravinger
10.	Tomčáni Ján	Static Analysis of a High-Rise Building – Detailed Wind Loading Analysis	N. Jendželovský

VII.3 Doctoral Theses

No.	Student's name	Title	Supervisor
1.	Bekő Adrián	Nonlinear Dynamic Analysis of Structures	M. Sokol
2.	Juriček Tomáš	Optimization of Structures	J. Dický
3.	Kosa Tomáš	Probabilistic Analysis of the Seismic Resistance of Structures Considering Their Ductility	J. Králik
4.	Králik Juraj	Analysis of Flooring Plates	N. Jendželovský
5.	Lenk Peter	Effects of Rheological Properties of Materials on the Interaction Between a Structure and Subsoil	N. Jendželovský
6.	Lukáč Rastislav	Effect of Dynamic Effects on the Design and Systemic Identification of Structures	M. Sokol
7.	Malast Miroslav	Stress-Strain Analysis of Viscoelastic Shell Structures	J. Sumec
8.	Paštéková Petra	Biomechanical Response of the Human Spine to Stationary Force Effects	J. Sumec
9.	Šatalová Jana	Dynamic Post-Buckling Behaviour of an Imperfect Slender Web	J. Ravinger
10.	Špánik Peter	Stability and Vibration of Sandwich Panels	J. Ravinger
11.	Tínes Radoslav	Nonlinear Dynamic Analysis of Wall-Coupled Systems	J. Králik
12.	Tvrda Katarína	Structure-Subsoil Interaction Problem in the Optimal Design of Plates with Unilateral Bonds	J. Dický

VIII. OTHER ACTIVITIES

VIII.2 Commercial Activities for Firms and Institutions

1. JENDŽELOVSKÝ, N.: Project of Hardening a Subgrade under High-Pressure Gas Tubing.
2. JENDŽELOVSKÝ, N.: Static Calculation for Relocation of High-Pressure Gas Tubing.
3. KRÁLIK, J. et al.: Probability Analysis of a Deaggregation Alert in the Seismic Resistance of Buildings.
4. RAVINGER, J.: Analysis and Design of Adaptation of Steel Matrices for Prestressing a Ceiling's Prefabricated "TT" Elements.
5. HUBOVÁ, O.: Analysis of the Development of the National Appendix for EN 1991-1-4: "Wind Load".

VIII.3 Conferences and Workshops Organized

1. International Conference on New Trends in the Statics and Dynamics of Buildings, October 19-20, 2006. Slovak University of Technology in Bratislava, Slovak Society of Mechanics.

IX. PUBLICATIONS

IX.1 Journals

1. BALÁŽ, I. – KOLEKOVÁ, Y.: American Stadiums with Retractable Roofs. Eurostav No.6, 2006, pp. 36-40 (in Slovak)
2. JENDŽELOVSKÝ, N.: Flooring Plates on an Elastic Subgrade. Projekt – stavba, 2, 2006, No. 1, pp. 25-27. ISSN 1336-6327 (in Slovak)
3. LOVÍŠEK, J. – KRÁLIK, J.: Optimal Control for an Elasto-Orthotropic Plate. Control and Cybernetics, 35, No. 2, 2006, pp. 219-278. ISSN 0196-9722.
4. LOVÍŠEK, J.: Control in an Obstacle Pseudoplate Problem. ZAMM Z. Angew. Mathematik and Mechanik, 86, No. 12, pp. 951-980 (2006). ISSN 0044-2267.
5. RAVINGER, J. – PSOTNÝ, M.: Natural Vibration of Imperfect Structures. Acta Mechanica Slovaca, 10, 2006, No. 1, pp. 431-438. ISSN 1335-2393.
6. RAVINGER, J.: Roofs Need General Overhauls Too. Quark 12, 2006, No. 4, pp. 6-7. ISSN 1335-4000 (in Slovak)
7. RAVINGER, J.: Holes in Panel Houses. Projekt – Stavba, 2, No. 2, 2006, pp. 9-12. ISSN 1336-6327 (in Slovak)
8. SOKOL, M. – LUKÁČ, R. – ÁROCH, R.: Reduction of Seismic Effects on Bridges Using Seismic Isolators. Engineering Mechanics, Vol. 13, 2006, No. 6, pp. 1-10. ISSN 1210-2717.

IX.2 Books and Textbooks

1. DICKÝ, J – MISTRÍKOVÁ, Z. – SUMEC, J.: Elasticity and Strength in Civil Engineering II. University Textbook. Bratislava, ES STU 2006. ISBN 80-227-2515-3 (in Slovak)
1. DICKÝ, J. – PREKOP, L. – TVRDÁ, K.: Elasticity and Strength. Bratislava, ES STU 2006. 92 pp. ISBN 80-227-2455-6 (in Slovak)
2. IVÁNKOVÁ, O. – MOROVJANOVÁ, Z.: Statically Indetermined Bar Systems – Examples. Force method. Bratislava, ES STU, 2006. 192 pp. ISBN 80-227-2397-5 (in Slovak)

IX.3 Conferences

1. BALÁŽ, I. – KOLEKOVÁ, Y. – ŽIVNER, T.: Buckling Lengths of Frame Columns. Proceedings of International Colloquium on Stability and Ductility of Steel Structures 2006. Lisboa, 5-8 September 2006, pp. 413-421.

2. BALÁŽ, I.J. – KOLEKOVÁ, Y.: Plastic Resistance of Annulus-Shaped Cross-Section Loaded by a Bending Moment and Axial Force. In: New Trends in the Statics and Dynamics of Buildings, October 19 - 20, 2006, Svf STU Bratislava, pp. 201-206. ISBN 80-227-2479-3 (in Slovak)
3. BEKŮ, A. – SOKOL, M. – HOLNICKI-SZULC, J.: Damage Identification of Cables via Virtual Distortion Method. In: Structural Health Monitoring 2006. Proceedings of the Third European Workshop. Granada, Spain, July 5-7, 2006. pp. 523-530. ISBN 1-932078-63-0.
4. DICKÝ, J. – TVRDÁ, K.: Optimal Design of Inhomogeneous Plates. In: Proceedings of International Conference on Static – Structural and Building – Physical Problems in Civil Engineering. Štrbské Pleso, November 29 – December 1, 2006, pp. 23 – 24. ISBN 80-7099-742-7.
5. HUBOVÁ, O.: Aeroelastic Instabilities on Suspension Bridge Decks. In: International VSU 2006 Conference, Sofia, Bulgaria, May 22-23, 2006. Vol. I. pp. I- 73-77. ISBN – 10: 954-331-009-2 (TOM 1), ISBN – 13: 978-954-331-009-8 (TOM 1).
6. HUBOVÁ, O.: Dynamic Effects of Wind – Utilization of Codes. In: DYNA 2006 Conference. FAST VUT Brno, May 11 - 12, 2006. pp 107-114. ISBN 80-214-3164-4 (in Slovak)
7. HUBOVÁ, O.: The Effects of Wind on a Structure. In: New Trends in the Statics and Dynamics of Buildings, October 19 - 20, 2006, Svf STU Bratislava, pp. 231-234. ISBN 80-227-2479-3.
8. IVÁNKOVÁ, O. – KRÁLIK, J.: Static and Dynamic Analyses of a Ventilating Chimney. In: Modelling in Mechanics 2006. FAST VŠB - TUO, Ostrava, February 1 - 2, 2006. pp. 23-24. ISBN 80-248-1035-2 (in Slovak)
9. IVÁNKOVÁ, O.: Negative Impacts of Reconstructions on Roof Structures of Historical Buildings. In: Proceedings of International Conference on Static – Structural and Building – Physical Problems in Civil Engineering. Štrbské Pleso, November 29 – December 1, 2006, pp. 35 – 36. ISBN 80-7099-742-7 (in Slovak)
10. IVÁNKOVÁ, O.: Seismicity and Its Effects on Structural Systems of High-Rise Buildings. In: New Trends in the Statics and Dynamics of Buildings, October 19 - 20, 2006, Svf STU Bratislava, pp. 219-222. ISBN 80-227-2479-3 (in Slovak)
11. JENDŽELOVSKÝ, N – LENK, P.: Behaviour over Time of the Settlement of the Building of the National Bank of Slovakia. In: New Trends in the Statics and Dynamics of Buildings, October 19 - 20, 2006, Svf STU Bratislava, pp. 81-84. ISBN 80-227-2479-3 (in Slovak)
12. JENDŽELOVSKÝ, N. – LENK, P.: Behaviour over Time of the Settlement of the Foundations of Buildings. In: Proceedings of International Conference on Static – Structural and Building – Physical Problems in Civil Engineering. Štrbské Pleso, November 29 – December 1, 2006, pp. 41 – 42. ISBN 80-7099-742-7 (in Slovak)
13. JENDŽELOVSKÝ, N. – SUMEC, J.: Response of a Pavement on Elastic Subsoil under Service Loading. In: International VSU 2006 Conference, Sofia, Bulgaria, May 22-23, 2006. Vol. I. pp. I- 13-17. ISBN – 10: 954-331-009-2 (TOM 1), ISBN – 13: 978-954-331-009-8 (TOM 1).

14. JENDŽELOVSKÝ, N. – SUMEC, J.: Stress-Strain Analysis of a Collector System Loaded by Temperature. In: Sympozjum Trwalosc Materialow i Konstrukcji Budowlanych. Kamien Slaski, Poland, 21.-22. 6. 2006. pp. 181 - 184.
15. JENDŽELOVSKÝ, N.: Modelling Foundation Plates Resting on an Elastic Half-Space. In: Proceedings of the 11th Statics of Structures 2006 Conference. Piešťany, March 16 – 17, 2006. pp. 55-60. ISBN 80-969127-4-7 (in Slovak)
16. KOLEKOVÁ, Y. – SCHMID, G. – STOJANOVSKI, K. Soil-Structure Interaction under Seismic Excitation. In: New Trends in the Statics and Dynamics of Buildings, October 19 - 20, 2006, Svf STU Bratislava, pp. 245-248. ISBN 80-227-2479-3.
17. KOLEKOVÁ, Y. - SCHMID, G. – STOJANOVSKI, K.: Analysis of Structures under Low and High Frequency Seismic Excitations. In: International JDGK 12 Congress Conference. September 27-29, 2006. VRNJAČKA BANJA. pp. 285-293.
18. KRÁLIK J. – KRÁLIK, J. jr.: Assessment of Reliability of High-Rise Buildings - Deterministic and Probabilistic Approaches. In: Proceedings of International Conference on Static – Structural and Building – Physical Problems in Civil Engineering. Štrbské Pleso, November 29 – December 1, 2006, pp. 55 – 56. ISBN 80-7099-742-7 (in Slovak)
19. KRÁLIK, J. - VARGA, T.: Deterministic and Probability Analyses of the Fire Resistance of Steel Portal Frames with Tapered Members. In: Safety and Reliability for Managing Risk. Proceedings of the European Safety and Reliability Conference, Estoril, Portugal, 18-22 September 2006. Vol. 3, pp. 2081-2086. ISBN Volume 3: 978-0-415-42315-1.
20. KRÁLIK, J. – CESNAK, J.: Experimental and Numerical Reliability Analysis of Damping Devices under Impact Loads from Container. In: First European Conference on Earthquake Engineering and Seismology. Abstract Book. 3-8 September, Geneva, Switzerland. p. 256. ISBN-10: 2-8399-0190-0 / ISBN-13: 978-2-8399-0190-1.
21. KRÁLIK, J. – IVÁNKOVÁ, O. – ŠIMONOVÍČ, M.: Reliability Seismic Analysis of the Ventilating Chimney Considering Ductility Effects. In: International VSU 2006 Conference, Sofia, Bulgaria, May 22-23, 2006. Vol. I. pp. I- 204-209. ISBN – 10: 954-331-009-2 (TOM 1), ISBN – 13: 978-954-331-009-8 (TOM 1).
22. KRÁLIK, J. – IVÁNKOVÁ, O.: Probabilistic Analysis of Seismic Resistance of a Ventilating Chimney Considering the Ductility Factor. In: PPK 2006 Conference. October 3 – 4, 2006, FAST VUT Brno, pp. 19 - 26. ISBN 80-214-3251-9 (in Slovak)
23. KRÁLIK, J. – KRÁLIK, J. Jr.: Static, Stability and Dynamic Analyses of the CBC High-Rise Building in Bratislava. In: Modelling in Mechanics 2006. FAST VŠB - TUO, Ostrava, February 1 - 2, 2006. pp. 27-28. ISBN 80-248-1035-2 (in Slovak)
24. KRÁLIK, J. - KRÁLIK, J., Jr.: Reliability and Sensitivity Analysis of Tall Building Structures Considering the Soil-Structure Interaction. In: International VSU 2006 Conference, Sofia, Bulgaria, May 22-23, 2006. Vol. I. pp. I- 197-203. ISBN – 10: 954-331-009-2 (TOM 1), ISBN – 13: 978-954-331-009-8 (TOM 1).
25. KRÁLIK, J. – KRÁLIK, J. Jr.: Reliability and Sensitivity Analyses of the Seismic Resistance of High-Rise Structures Using the RSM Method. In: PPK 2006 Conference. October 3 - 4 2006, FAST VUT Brno, pp. 37 - 46. ISBN 80-214-3251-9 (in Slovak)
26. KRÁLIK, J. – KRÁLIK, J.: Probability and Sensitivity Analyses of the Interaction between a High-Rise Building and the Subgrade. In: New Trends in the Statics and Dynamics of Buildings, October 19 - 20, 2006, Svf STU Bratislava, pp. 253-256. ISBN 80-227-2479-3 (in Slovak)

27. KRÁLIK, J. – TÍNES, R.: Seismic Analysis of Reinforced Concrete Coupled Systems Considering Ductility Effects. In: First European Conference on Earthquake Engineering and Seismology. Abstract Book. 3-8 September, Geneva, Switzerland. p. 436. ISBN-10: 2-8399-0190-0 / ISBN-13: 978-2-8399-0190-1.
28. KRÁLIK, J. – TÍNES, R.: Seismic Analysis of Reinforced Concrete Frames Considering Ductility Effects. In: 6th European Solid Mechanics Conference. Budapest, 28 August – 1 September 2006. ISBN 963 87244 0 4.
29. KRÁLIK, J. – TÍNES, R.: Seismic Analysis of a Reinforced Concrete Wall System Considering the Effects of Ductility. In: DYNA 2006 Conference. FAST VUT Brno, May 11 - 12, 2006. pp 203-208. ISBN 80-214-3164-4 (in Slovak)
30. KRÁLIK, J.: Probability Nonlinear Analysis of NPP Reinforced Concrete Structure Failure Considering Degradation Effects and High Internal Overpressure. In: Safety and Reliability for Managing Risk. Proceedings of the European Safety and Reliability Conference, Estoril, Portugal, 18-22 September 2006. Vol. 3, pp. 1483-1490. ISBN Volume 3: 978-0-415-42315-1.
31. KRÁLIK, J. - KOSA, T.: Probabilistic and Sensitivity Analyses of the Seismic Resistance of the High-Rise Building. In: New Trends in the Statics and Dynamics of Buildings, October 19 - 20, 2006, Svf STU Bratislava, pp. 267-270. ISBN 80-227-2479-3 (in Slovak)
32. KRÁLIK, J.: Comparison of Probabilistic and Deterministic Assessments for the Evaluation of the Seismic Safety of Nuclear Power Plants in Slovakia. In: First European Conference on Earthquake Engineering and Seismology. Abstract Book. 3-8 September, Geneva, Switzerland. Pp 422. ISBN-10: 2-8399-0190-0 / ISBN-13: 978-2-8399-0190-1.
33. KRÁLIK, J.: Experimental and Numerical Analyses of the Fall of a Container to the Bottom of a Basin for Spent Fuel Elements. In: Proceedings of International Conference on Static – Structural and Building – Physical Problems in Civil Engineering. Štrbské Pleso, November 29 – December 1, 2006, pp. 53 – 54. ISBN 80-7099-742-7 (in Slovak)
34. KRÁLIK, J.: Numerical Analysis of Steel-Frame Bracing Systems with Energy Dissipation Devices. In: DYNA 2006 Conference. FAST VUT Brno, May 11 - 12, 2006. pp. 195-202. ISBN 80-214-3164-4.
35. KRÁLIK, J.: Probability and Sensitivity Analyses of the Reliability of Ceiling Dampers for the Case of a Falling Container. In: PPK 2006 Conference. October 3 - 4 2006, FAST VUT Brno, pp. 27 - 36. ISBN 80-214-3251-9 (in Slovak)
36. KRÁLIK, J.: Probabilistic Analysis of Robust FEM Problems Using the MC, IS, LHS and RSM Methods under the ANSYS System. In: 7th Conference on Reliability of Structures. April 5, 2006, Prague, pp. 57-66, ISBN 80-02-01770-6 (in Slovak)
37. KRÁLIK, J.: Probability Seismic Hazard Analysis of Nuclear Power Plant Buildings in Mochovce. In: 6th European Solid Mechanics Conference. Budapest, 28 August – 1 September 2006. ISBN 963 87244 0 4.
38. KRÁLIK, J.: Safety and Reliability Analyses of Damping Devices under Impact Loads from a Falling Container. In: Modelling in Mechanics 2006. FAST VŠB - TUO, Ostrava, February 1 - 2, 2006. pp. 25-27. ISBN 80-248-1035-2.
39. KRÁLIK, J.: Protection of Humans and Buildings from Harmful Effects of Vibrations Caused by Technical Seismicity. In: Proceedings of the 11th Statics of Structures 2006 Conference. Piešťany, March 16 – 17, 2006. pp. 31-42. ISBN 80-969127-4-7 (in Slovak)

40. KRÁLIK, J.-KRÁLIK, J., Jr.: Probabilistic and Sensitivity Analyses of the Interaction between the CBC High-Rise Building in Bratislava with the Subgrade. In: 14th ANSYS Users Meeting, Tábor, 20. - 22. 9. 2006. Brno, SVS FEM. pp. 1-12. ISBN 80-239-7764-4 (in Slovak)
41. MARTON, P.: Identification of Causes of Cracking in the External Plaster of a Family House. In: Sanitation and Reconstruction of Buildings. WTA CZ, pp. 51-54. ISBN 80-02-01866-4 (in Slovak)
42. MARTON, P.: Calculation Models of Extra-High Voltage Towers Considering Their Response from a Wind Load. In: DYNA 2006 Conference. FAST VUT Brno, May 11 - 12, 2006. pp. 31-40. ISBN 80-214-3164-4 (in Slovak)
43. MISTRÍKOVÁ, Z. – JENDŽELOVSKÝ, N.: Creep of a Circular Foundation Plate with a Variable Stiffness – Comparison of Two Calculation Models. In: Proceedings of International Conference on Static – Structural and Building – Physical Problems in Civil Engineering. Štrbské Pleso, November 29 – December 1, 2006, pp. 89 – 90. ISBN 80-7099-742-7 (in Slovak)
44. MISTRÍKOVÁ, Z. – SUMEC, J.: Modelling Time-Dependent Effects in Continuum Mechanics. In: Proceedings of the International Conference on Meeting of the Slovak and Czech Departments of Structural Mechanics, Mikulov, September 6 – 8, 2006. pp. 59-63. ISBN 80-214-3248-9 (in Slovak)
45. MISTRÍKOVÁ, Z.: Creep of a Circular Plate Having Varying Rates of Stiffness in Contact with a Half-Space. In: New Trends in the Statics and Dynamics of Buildings, October 19 - 20, 2006, Svf STU Bratislava, pp. 169-172. ISBN 80-227-2479-3 (in Slovak)
46. MISTRÍKOVÁ, Z.: Effect of Creep on the Stress and Strain of a Circular Plate Resting on a Half-Space. In: International VSU 2006 Conference, Sofia, Bulgaria, May 22-23, 2006. Vol. I. pp. II- 89-94. ISBN – 10: 954-331-009-2 (TOM 1), ISBN – 13: 978-954-331-009-8 (TOM 1).
47. MISTRÍKOVÁ, Z.: Comparison of Models of a Circular Plate and Half-Space in a Contact Problem. In: Modelling in Mechanics 2006. FAST VŠB - TUO, Ostrava, February 1 - 2, 2006. pp. 59-60. ISBN 80-248-1035-2 (in Slovak)
48. ORTUTA, J. – VYSKOČ, E.: Reconstruction and Extension of Waste Water Treatment Plant in Piešťany. Interaction between the Subgrade and Structures. In: New Trends in the Statics and Dynamics of Buildings, October 19 - 20, 2006, Svf STU Bratislava, pp. 249-252. ISBN 80-227-2479-3 (in Slovak)
49. ORTUTA, J. – VYSKOČ, E.: Reconstruction and Extension of Waste Water Treatment Plant in Piešťany. Interaction between the Subgrade and Structures. In: Proceedings of International Conference on Static – Structural and Building – Physical Problems in Civil Engineering. Štrbské Pleso, November 29 – December 1, 2006, pp. 95 – 96. ISBN 80-7099-742-7 (in Slovak)
50. ORTUTA, J. – VYSKOČ, E.: Reconstruction and Extension of Waste Water Treatment Plant in Piešťany. Interaction between the Subgrade and Structures. In: Proceedings of International Conference on Foundations of Structures, November 6 - 7, 2006, Brno, pp. 126-129. ISBN 80-7204-478-8 (in Slovak)
51. PREKOP, L. – VYSKOČ, E.: Analysis of a Dry Gas Container. In: New Trends in the Statics and Dynamics of Buildings, October 19 - 20, 2006, Svf STU Bratislava, pp. 237-240. ISBN 80-227-2479-3 (in Slovak)

52. PREKOP, Ľ. – VYSKOČ, E.: Foundations of Buildings under Complicated Geological Conditions. In: Proceedings of International Conference on Static – Structural and Building – Physical Problems in Civil Engineering. Štrbské Pleso, November 29 – December 1, 2006, pp. 105 – 106. ISBN 80-7099-742-7 (in Slovak)
53. RAVINGER, J. – PSOTNÝ, M.: Natural Vibration of Imperfect Structures. In: Stability of Structures. 11th Symposium. Zakopane, Poland, September 11-15, 2006. pp. 345-352. ISBN 83-914019-3-6.
54. RAVINGER, J. – PSOTNÝ, M.: Residual Stresses in Steel Beams. In: New Trends in the Statics and Dynamics of Buildings, October 19 - 20, 2006, Svf STU Bratislava, pp. 195-196. ISBN 80-227-2479-3 (in Slovak)
55. RAVINGER, J.: Applied Mechanics and Theory of Building Structures. In: Proceedings of the International Conference on Meeting of Slovak and Czech Departments of Structural Mechanics, Mikulov, September 6 – 8, 2006. pp. 64-69. ISBN 80-214-3248-9 (in Slovak)
56. RAVINGER, J.: Breakdown of the Lower Gate of the Lock Chamber at Gabčíkovo – Extra – Solid Steel Fatigue. In: DYNA 2006 Conference. FAST VUT Brno, May 11 - 12, 2006. pp 161-166. ISBN 80-214-3164-4 (in Slovak)
57. RAVINGER, J.: Holes in Panel Houses. In: Proceedings of the 11th Statics of Structures 2006 Conference. Piešťany, March 16 – 17, 2006. pp. 79-84. ISBN 80-969127-4-7 (in Slovak)
58. SOKOL, M. – FLESCHE, R.: Dynamic Tests for Soil Parameter Identification on Bridges. In: Proceedings of the International Conference on Meeting of Slovak and Czech Departments of Structural Mechanics, Mikulov, September 6 – 8, 2006. pp. 70-72. ISBN 80-214-3248-9.
59. SOKOL, M.: Alternatives of Bridge Design Cost Reduction Using Seismic Isolators and Non-Linear Analysis. In: 14th ANSYS Users Meeting, Tábor, 20. - 22. 9. 2006. Brno, SVS FEM. pp. 1-9. ISBN 80-239-7764-4.
60. SOKOL, M.: Effects of Accidental Action on a Cable-Stayed Bridge. In: Proceedings of International Conference on Static – Structural and Building – Physical Problems in Civil Engineering. Štrbské Pleso, November 29 – December 1, 2006, pp. 123– 124. ISBN 80-7099-742-7.
61. SOKOL, M.: Seismic Loads of Panel Buildings. In: Static Problems of Panel Buildings. Seminar. October 10, 2006, Bratislava, Slovak Chamber of Civil Engineers. On CD (in Slovak)
62. SOKOL, M.: Reduction of Soil Vibration Induced by Traffic. In: New Trends in the Statics and Dynamics of Buildings, October 19 - 20, 2006, Svf STU Bratislava, pp. 105-108. ISBN 80-227-2479-3.
63. SUMEC, J. - JENDŽELOVSKÝ, N.: Stress-Strain Analysis of an Upper Shell Latticed Cap under an Impact Load. In: International VSU 2006 Conference, Sofia, Bulgaria, May 22-23, 2006. Vol. I. pp. I- 18-23. ISBN – 10: 954-331-009-2 (TOM 1), ISBN – 13: 978-954-331-009-8 (TOM 1).
64. SUMEC, J. – KENÍŽOVÁ, P.: Biomechanical Analysis of Stress and Strain of Lumbar Vertebra Considering Different Load Types. In: New Trends in the Statics and Dynamics of Buildings, October 19 - 20, 2006, Svf STU Bratislava, pp. 137-140. ISBN 80-227-2479-3 (in Slovak)

65. SUMEC, J. – MALAST, M. – VÉGHOVÁ, I.: Modelling Non-Linear Viscoelasticity. In: New Trends in the Statics and Dynamics of Buildings, October 19 - 20, 2006, Svf STU Bratislava, pp. 179-182. ISBN 80-227-2479-3.
66. SUMEC, J. – MALAST, M. – VÉGHOVÁ, I.: Approximations in Nonlinear Viscoelasticity. In: Proceedings of International Conference on Static – Structural and Building – Physical Problems in Civil Engineering. Štrbské Pleso, November 29 – December 1, 2006, pp. 125 – 126. ISBN 80-7099-742-7 (in Slovak)
67. SUMEC, J. – PAŠTÉKOVÁ – KENÍŽOVÁ, P.: Biomechanical Analysis of a Lumbar Vertebra under Different Types of Loading. In: 14th ANSYS Users Meeting, Tábor, 20. - 22. 9. 2006. Brno, SVS FEM. pp. 1-6. ISBN 80-239-7764-4.
68. ŠIMONOVIČ, M – MISTRÍKOVÁ, Z.: Software for Dimensioning Reinforced Concrete Structures. In: Proceedings of the 11th Statics of Structures 2006 Conference. Piešťany, March 16 – 17, 2006. pp. 133-136. ISBN 80-969127-4-7 (in Slovak)
69. TVRDÁ, K. – DICKÝ, J.: Optimal Design of Structures. In: Modelling in Mechanics 2006. FAST VŠB - TUO, Ostrava, February 1 - 2, 2006. pp. 21-22. ISBN 80-248-1035-2.
70. TVRDÁ, K. – DICKÝ, J.: Optimal Design of the Thickness of a Plate Resting on an Elastic Foundation. In: New Trends in the Statics and Dynamics of Buildings, October 19 - 20, 2006, Svf STU Bratislava, pp. 211-214. ISBN 80-227-2479-3.
71. TVRDÁ, K.: 3-D Optimal Design of a Plate Thickness. In: 14th ANSYS Users Meeting, Tábor, 20. - 22. 9. 2006. Brno, SVS FEM. pp. 1-7. ISBN 80-239-7764-4 (in Slovak)

For more information see web site <http://www.svf.stuba.sk/kat/SME>