DEPARTMENT OF STEEL AND TIMBER STRUCTURES

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II. EQUIPMENT

II. 1 Teaching and Research Laboratories

The Department performs educational activities in the field of steel and timber structures and bridges at the Faculty of Civil Engineering. The main part of its teaching is aimed at the branches of Civil Engineering and Architecture, Structural Engineering and Water Management. Courses are offered in the theory, design, construction, erection and experimental investigation of building structures, bridges, and special engineering constructions with steel, timber and composite load-bearing systems.
The Department has a mechanical workshop for metal and timber work, a welding shop, and testing equipment for materials, as well as plane and spatial structural models, members and connections. The laboratory is equipped to perform experiments with loads up to 2500 kN.

II. 2 Special Measuring Instruments and Computers

Strain gauge instrumentation - Hottinger Baldwin Messtechnik, connected with computer-aided analyses of experimental results.
Mechanical and hydraulic testing machines for tension and compression static loads up to 1000 kN and in torsion up to 2 kNm.

III. TEACHING

III. 1 Graduate Study

Obligatory subjects

Subject	Semester	Hours per Week		Lecturer
		Lectures	Seminars	
Steel and Timber Structures	5	4	2	J. Brodniansky F. Draškovič
Steel Members	5	4	2	I. Baláž
Steel Members	5	2	2	I. Baláž J. Brodniansky
Steel Structures	6	2	2	Z. Agócs J. Brodniansky
Steel Structures	6	3	2	Z. Agócs
Timber Structures I.	7	2	2	F. Draškovič
Timber Systems	7	2	2	F. Draškovič
Timber Systems	7	2	1	F. Draškovič
Construction Project	7	0	4	J. Čierna J. Sandanus
Timber Systems	8	2	1	F. Draškovič
High-Rise and Long-Span Steel Structures	8	2	1	Z. Agócs J. Brodniansky
Steel Bridges I.	8	3	2	J. Lapos
Composite Structures	8	2	2	J. Lapos
Stability and Plasticity of Steel Structures	9	2	2	I. Baláž J. Lapos

Steel Bridges II.	9	2 - 2	J. Lapos
High-Rise and Long-Span Steel Structures	9	2 - 2	Z. Agócs J. Brodniansky
Special Seminar	9	0 - 3	Z. Agócs I. Baláž J. Brodniansky F. Draškovič J. Lapos J. Sandanus
Design Studio	9	0 - 5	Z. Agócs J. Brodniansky
Diagnosis and Reconstruction of Steel and Timber Structures	10	2 - 1	Z. Agócs F. Draškovič
Timber Structures II.	10	3 - 2	F. Draškovič
Diagnosis and Reconstruction of Steel and Timber Structures	10	3 - 2	Z. Agócs F. Draškovič
Thin-Walled Steel Structures	10	3 - 2	I. Baláž
Advanced Steel and Timber Structures	10	3 - 2	Z. Agócs F. Draškovič
Special Seminar	10	0 - 5	Z. Agócs I. Baláž J. Brodniansky F. Draškovič J. Lapos J. Sandanus
Design Studio	10	0 - 5	Z. Agócs J. Brodniansky

Optional Subjects

Subject	Semester	Hours per Week		Lecturer
		Lectures	Seminars	
Advanced Timber Structures	8	2	2	F. Draškovič
Advanced Steel Structures	9	2	2	Z. Agócs V. Kalousek
Hydrotechnical Steel Structures	9	2	1	J. Lapos
Special Timber Structures	9	2	1	F. Draškovič
Technological Steel Structures	10	2	2	V. Kalousek
Experimental Verification of Building Structures	10	1	3	V. Kalousek

IV. RESEARCH TARGETS

The research activity of the Department is devoted to problems involving:
- materials and connections (wood rheology, glued timber connections, protection of materials),
- stability of columns and frames, stability of plates, thin-walled systems (shear-lag, torsion, distortion),
- new types of construction design and their behaviour (cable structures, space trusses, crane runways, composite structures, glued timber structures),

- glass structures,
- diagnosis, reconstruction and strengthening of structures,
- computers in the research and design of structures.

V. RESEARCH PROJECTS

1. VEGA 1/7139/20: Development of New Load-Bearing Systems of Large Span and Height in Terms of the Main Parameters, Including the Environment. Innovation of Reconstruction Methods for Important Structures in Line with Contemporary Architectural, Engineering and Ecological Requirements (Prof. Agócs)
2. VEGA 1/7137/20: Fatigue and Life Expectancy of Steel and Composite Steel-Concrete Bridges and Dynamically Loaded Engineering Structures (Assoc. Prof. Lapos)
3. VEGA 1/7141/20: Stability and Strength Problems of Thin-Walled Beams with Deformable Cross-Sections (Prof. Baláž)
4. VEGA 1/7118/20: Actual Behaviour of Timber and Combined Load-Bearing Members and Structures and Specific Timber Properties (Assoc. Prof. Draškovič)

VI. COOPERATION

VI. 1 Cooperation in Slovakia

1. Doprastav Bratislava
2. Dopravoprojekt Bratislava
3. Hydrostav Bratislava
4. Ingsteel Bratislava
5. Steel OK Levice
6. SPP, SLOVTRANSGAZ Nitra
7. SPP, SLOVTRANSGAZ Senica
8. VSŽ, Mostáreň, Košice
9. Slovenské elektrárne Bratislava
10. ŠDVÚ Bratislava
11. Stavro Bratislava
12. Ing. Pavol Nádaský, PhD, Trnava
13. Vodárne a kanalizácie Bratislava
14. SÚTN Bratislava
15. STANLY, Žilina
16. Recky Bratislava
17. ELBEVA v.o.s., Dunajská Streda
18. Výskumný ústav zváračský, Bratislava

VI. 2 International Cooperation

1. ČVUT Prague, Czech Republic
2. Faculty of Civil Engineering, VUT Brno, Czech Republic
3. University of Stuttgart, Germany
4. Technische Universität, Munich, Germany
5. Technische Universität, Cottbus, Germany
6. Bauhaus Universität, Weimar, Germany

7. Technische Universität, Graz, Austria
8. HTWS, Zittau, Germany
9. Technische Universität, Vienna, Austria
10. TU Budapest, Hungary
11. University of Miskolc, Hungary
12. Politechnika Szczeczinska, Poland
13. Politechnika Gdanska, Poland
14. Politehnica Timisoara, Romania
15. ASTRON Building Systems, Luxembourg and the Czech Republic
16. Academy of Steel Construction, Sheffield, UK
17. Application Centre for Mixed Building Technology, Innsbruck, Austria
18. University of Liège, Belgium
19. Foundation University of Oviedo, Spain
20. Technical Chamber of Greece, Athens, Greece
21. Institute of Continuing Training and Education for the Members of TCG, Athens, Greece
22. Steel Construction Institute, Ascot, UK
23. Epistemics Ltd, Sheffield, UK
24. Centre Information Acier, Brussels, Belgium
25. Aristotle University of Thessaloniki, Greece

International Projects

1. Leonardo da Vinci: A New and Flexible Approach to Training for Engineers in Construction – NFATEC
2. Slovak-Greek Bilateral Cooperation Working Programme on Science and Technology: Analysis, Design and Manufacturing Recommendations for Glass-Aluminium Façades with Improved Strength Properties According to Eurocode 9

VI. 2. 1 Visitors to the Department

1. Prof. Zbigniew Melczarek, Politechnika Szczeczinska, Poland, Feb. 21 – 22, 2002
2. Wieland Becker, TU Vienna, Austria, May 7, 2002
3. Prof. C.C. Baniotopoulos, University Thessaloniki, Greece, July 6 - 13, 2002
4. Dr. Ernst Richter, Hochschule Zittau, Germany, July 8, 2002

VI. 2. 2 Visits of Staff Members and Postgraduate Students to Foreign Institutions

1. R. Ároch, University of Sheffield, UK, Feb. 7 - 10, 2002
2. M. Chladná, University of Sheffield, UK, Feb. 7 - 10, 2002
3. Z. Agócs, Hungary, March 8, 2002
4. Z. Agócs, University of Györ, Hungary, April 17-18, 2002
5. F. Draškovič, Politechnika Szczeczinska, Poland, May 15 – 19, 2002
6. R. Ároch, London, UK, May 11 - 14, 2002
7. M. Chladná, London, UK, May 11 - 14, 2002
8. Z. Agócs, University of Brno, Czech Republic, June 18-19, 2002
9. Z. Agócs, University of Timisoara, Romania, Sept. 10-14, 2002
10. J. Brodniansky, University of Coimbra, Portugal, Sept. 17-22, 2002
11. Z. Agócs, University of Coimbra, Portugal, Sept. 17-22, 2002
12. I. Baláž, TU Budapest, Hungary, Sept. 25-28, 2002
13. R. Ároch, TU Budapest, Hungary, Sept. 28 - 30, 2002

14. M. Chladná, TU Budapest, Hungary, Sept. 28 - 30, 2002
15. M. Chladná, Bedford, UK, Nov. 4 - 16, 2002
16. I. Baláž, ČVUT Prague, Czech Republic, Nov. 28, 2002
17. M. Chladná, Bedford, UK, Nov. 24 – Dec. 6, 2002
18. Z. Agócs, Hustopeče, Czech Republic, Dec. 4-5, 2002
19. J. Brodniansky, Hustopeče, Czech Republic, Dec. 4-5, 2002

VI. 2. 3 Membership in International Associations

1. J. Brodniansky, IASS - International Association for Space Structures
2. Z. Agócs, IASS - International Association for Space Structures
3. I. Baláž, IABSE - International Association for Bridges and Structural Engineering
4. I. Baláž, ASCE - American Society for Civil Engineering
5. J. Lapos, SSRC - Structural Stability Research Council

VII. THESES

VII. 1 Graduate Theses

No.	Student´s name	Title	Supervisor
1.	Branislav Beleš	Hypernova Shopping Mart in Dunajská Streda	J. Brodniansky
2.	Szilárd Csóka	Steel Structure of a Multi-Purpose Stadium for 20,000 Spectators	Z. Agócs
3.	Juraj Hakulín	Industrial Building of the EDSCHA Company in Veľký Meder	J. Brodniansky
4.	Zdeno Horník	Hippodrome in Devínska Nová Ves	J. Sandanus
5.	Viliam Rentka	Campus Industrial Building in Námestovo	J. Sandanus
6.	Marek Roman	Polus Center High-Rise in Bratislava	J. Brodniansky
7.	František Žitniak	Sports Stadium Grandstand in Trnava	Z. Agócs
8.	Daniel Biksadský	Houseboat – Timber Superstructure Including the Steel Structure of a Floating Pontoon, Footbridge and Anchoring	V. Kalousek
9.	Ľubomír Fajta	Bracing and Strengthening of Timber Load-Bearing Elements	F. Draškovič
10.	Roman Charbula	Roofing of the ŽSR Superstructure.	F. Draškovič
11.	Peter Liko	Study of a Bridge Across a Valley at the ZAKOS Traffic Semicircle at km 3,386 - 3,428	J. Lapos
12.	Michal Osuský	Study of a Bridge Across a Valley at the ZAKOS Traffic Semicircle at km 4,095-5,099	J. Lapos
13.	Jozef Šottník	Study of a Bridge at the ZAKOS Traffic Semicircle at km 7,732 - 8,307	J. Lapos
14.	Ivan Vanko	Additional Roof for the Ice Stadium in Lučenec	Z. Agócs

VIII. OTHER ACTIVITIES

VIII. 1 Special Lectures

[1] Agócs, Z.: Steel of the New Danube Bridge in Bratislava. Proceedings of the Third European Conference on Steel Structures. Vol. II EUROSTEEL, Coimbra, Portugal

[2] Agócs, Z.: New Cable-Stayed and Arch Bridges with Cables. Fourth Ostrava Conference on Steel Structures, Ostrava, Czech Republic

[3] Agócs, Z.: Cable Structures. TU Györ, Hungary

[4] Agócs, Z.: Diagnosis and Reconstruction of Steel Structures. TU Györ, Hungary

[5] Agócs, Z.: New Bridge Across the River Danube in Bratislava. National Road and Bridge Congress, Timisoara, Romania

[6] Baláž, I.: Fillet Welds of Metal Structures. International Colloquium on Stability and Ductility of Steel Structures. Sept. 26-28, 2002, Budapest, Hungary.

[7] Baláž, I.: Resistance of Steel Girders Subjected to Concentrated Transverse Forces. International Colloquium on Stability and Ductility of Steel Structures. Sept. 26-28, 2002, Budapest, Hungary.

[8] Baláž, I. – Koleková, Y.: Clark – Mrázik Formula for Critical Moments. International Colloquium on Stability and Ductility of Steel Structures. Sept. 26-28, 2002, Budapest, Hungary.

[9] Baláž, I. – Koleková, Y.: Critical Moments. International Colloquium on Stability and Ductility of Steel Structures. Sept. 26-28, 2002, Budapest, Hungary.

[10] Baláž, I. – Koleková, Y.: Warping. International Colloquium on Stability and Ductility of Steel Structures. Sept. 26-28, 2002, Budapest, Hungary.

[11] Brodniansky, J.: Glass in Steel Structures, Third European Conference on Steel Structures, September 19-20, 2002, Coimbra, Portugal

[12] Brodniansky, J.: Diagnosis and Reconstruction of Steel Structures. 40th Conference on Steel Structures: Hustopeče 2002. Hustopeče, Czech Republic. December 5, 2002

[13] Draškovič, F.: Summary of Assets of Present Scientific and Pedagogic Cooperation Between Politechnika Szczecinska (Wydzial budownictwa i architektury) and SUT Bratislava (Department of Steel and Timber Structures). Fifth Scientific Conference "Timber and Timber-Like Materials in Building Structures", Szczecin, Poland, May 17-18, 2002

[14] Rendek, S. - Baláž, I.: Computer Programme Employing Generalised Beam Theory. International Colloquium on Stability and Ductility of Steel Structures. Sept. 26-28, 2002, Budapest, Hungary.

VIII. 2 Commercial Activities for Firms and Institutions

1. Expert Survey of the Damage to N52B19 and N52B20 Tanks with Proposal for Adaptations – Z. Agócs
2. Assessment of Available Mechanical Stresses in TS Pipeline Webs and Proposed Monitoring System for the Locality of Posádka – Z. Agócs

3. Evaluation and Check of Pipeline Bearing on the Rectified Bridge on Line I and II DN 1200 – Blh Bridge – Z. Agócs
4. Control Calculation and In-Depth Diagnosis of Bridges I and II of Line DN 1200 Hornád and Hron, Phases I and II – Z. Agócs
5. Diagnostic Inspection of Bridges TS, Phases I and II – Z. Agócs
6. Proposed Measurement System of Surface Mechanical Stresses in Pipeline Webs during Repair of Anchor Block on Side B of Bridge Across River Váh, Line I DN 1200 and Evaluation of New Pipeline Anchorage, Phases I and II – Z. Agócs
7. Evaluation of Surface Stresses in Pipeline Webs on Line III DN 1200 in Locality of Kamenné Kosihy – Z. Agócs
8. Proposed Remedial Actions for TS Bridges to Stay in Service for the Period until the Next Control Check in the Year 2003 – Z. Agócs
9. Determination of Maximum Lengths During Repair of Corrosive Defects on TS DN 1200 Pipelines – Z. Agócs
10. Technical Aid During the Removal of a Short Circuit in a Cathode Cover in Nové Hrony – Veľké Dravce, Strength Calculation of the Pipeline during Lifting and Technical Guidance during Lifting – Z. Agócs
11. Technical Aid during Controlled Relaxation of the Springs of the Hanging Saddles on the BLH Bridge and Adjustment of Spring Prestress – J. Brodniansky
12. Construction Proposal and Strength Calculation of the Ramps of a Lifting Deck – J. Brodniansky
13. Static Check with a Proposal for the Repair of a 100m^3 Water Tank in Čuňovo – Z. Agócs
14. Static Check with a Proposal for the Repair of a 200m^3 Water Tank in Rusovce – Z. Agócs
15. Static Proposal and Production Documentation of a Timber Superstructure for the ŽSR Building in Bratislava on Bazová Street – F. Draškovič
16. Four-Language Dictionary – I. Baláž
17. ENV 1999-1-1 – I. Baláž

IX. PUBLICATIONS

IX. 1 Journals

[1] AGÓCS, Z. – BRODNIANSKY, J.: International IASS – 2001 Symposium. Konstrukce, Czech Republic, 1/2002, pp. 45 – 46 (in Slovak)

[2] BRODNIANSKY, J.: Glass in Steel Structures. Konstrukce, Czech Republic, 2/2002, pp. 27- 28 (in Slovak)

[3] AGÓCS, Z. – BRODNIANSKY, J. – KMEŤ, S.: International IASS – 2001 Symposium Nagoya. Projekt a stavba, 3/2002, pp. 30-32 (in Slovak)

[4] AGÓCS, Z. – BRODNIANSKY, J.: Diagnosis and Reconstruction of Steel Structures of Industrial Buildings. Eurostav, June 2002, Vol. 8, pp. 14-17 (in Slovak)

[5] KALOUSEK, V.: Reconstruction of Attic Spaces Using Steel Built-Up Frames. Eurostav, 2002 (in Slovak - in print)

[6] SANDANUS, J. - UNEGG, F.: Road Bridge of Solid Timber in Austria. Projekt a stavba 10/2002, p. 15 (in Slovak)

[7] BALÁŽ, I.: Comment on the Kálna, K. Paper: Choice of Additional Materials. Zváranie – Svařování, Nos. 1-2, 2002, pp. 18-23. Zváranie – Svařování, Nos. 5-6, 2002, p. 129 (in Slovak)

[8] BALÁŽ, I.: Discussion on the Kálna, K. Paper: Choice of Additional Materials. Zváranie – Svařování, Nos. 1-2, 2002, pp. 18-23., Zváranie – Svařování, Nos. 5-6, 2002, p. 129 (in Slovak)

[9] BALÁŽ, I.: Discussion on the Janota, M. Paper: Design of Steel Structures. Zváranie – Svařování, Nos. 1-2, 2002, pp. 24-27. Zváranie – Svařování, Nos. 5-6, 2002, p. 129 (in Slovak)

[10] BALÁŽ, I.: Discussion on the Kálna Reaction.: Choice of Additional Materials. Zváranie – Svařování, Nos. 5-6, 2002, p. 129, Zváranie – Svařování, Nos. 9-10, 2002, p. 224 (in Slovak)

[11] BALÁŽ, I.: To the Users of Standard STN 73 1401. Projekt a stavba, No. 1, 2002, pp. 30-35 (in Slovak)

[12] BALÁŽ, I.: Curiosities from the History of Bridge Building up to the Present Day. ASB, No.1/2002, pp. 64-67 (in Slovak)

[13] BALÁŽ, I.: History of Steel and Its Use. Eurostav, No. 7/2002, pp. 22-26 (in Slovak)

IX. 2 Books and Textbooks

[1] AGÓCS, Z.: Crane Runway Girders. Chapter in Textbook for Postgraduate Course on Design of Steel Structures of Cranes and Crane Runways, Technická inšpekcia CEOC SR, SUT Bratislava (in Slovak)

[2] ÁROCH, R.: Numerical Example of Design and Inspection of Crane Runway Girder According to STN. Chapter 9 in Textbook for Postgraduate Course on "Design of Steel Structures of Cranes and Crane Runways", Technická inšpekcia CEOC SR, SUT Bratislava (in Slovak)

[3] BALÁŽ, I.: Introduction, Chapter 1, pp. 1-1 to 1-14, Chapter 7, pp. 7-1 to 7-16, Chapter 8, pp. 8-1 to 8-21, Chapter 14, pp. 14-1 to 14-4, Chapter 17, pp. 17-1 to 17-2, Chapter 18, pp. 18-1 to 18-129, Annex A – 4 pp., B - 11 pp., C – 3 pp., D – 7 pp., E – 3 pp., F – 4 pp., Textbook for Postgraduate Course on "Design of Steel Structures of Cranes and Crane Runways", Technická inšpekcia CEOC SR, SUT Bratislava (in Slovak)

[4] BALÁŽ, I.: High-Rise Buildings. Stavebnícka ročenka 2003. 16 pp. (in Slovak)

[5] BALÁŽ, I. – CHLADNÝ, E. – MRÁZIK,: Four-Language Dictionary of Technical Expressions. 84 pp. MMaRR SR

[6] LAPOS, J.: Composite Steel and Concrete Girders, Chapter 2. In: Proceedings of "Common European Standards for Design of Building Structures – Eurocodes 2-4-6", Oct. 22-23, 2002, SUT Bratislava, 2002, pp. 245 – 273 (in Slovak)

[7] LAPOS, J.: Composite Steel and Concrete Hollow Sections Filled with Concrete, Chapter 5. In: Proceedings of "Common European Standards for Design of Building Structures – Eurocodes 2-4-6", Oct. 22-23, 2002, SUT Bratislava, 2002, pp. 301 – 314 (in Slovak)

IX. 3 Conferences

[1] AGÓCS, Z.: Steel of the New Danube Bridge in Bratislava. Proceedings of the Third European Conference on Steel Structures, EUROSTEEL. Vol. II, Sept. 19-20, 2002, Coimbra, Portugal, pp. 861-866

[2] AGÓCS, Z.: New Cable-Stayed and Arch Bridges with Cables. In: Proceedings of the Fourth Ostrava Conference on Steel Structures, Ostrava, Czech Republic, June 2002, pp. 5-8 (in Slovak)

[3] AGÓCS, Z.: Aesthetic Problems of Bridges with Cables. In: Proceedings of the 7th Scientific Conference (with international participation), Section 8: Steel and Timber Structures, Košice, May 22 – 24, 2002, pp. 9-12 (in Slovak)

[4] AGÓCS, Z.: Modern Welded Bridges with an Orthotropic Deck. In: Proceedings of Welded Steel Structures Seminar, Bratislava, Oct. 8, 2002, pp. 6-11 (in Slovak)

[5] AGÓCS, Z.: New Cable-Stayed and Arch Bridges with Cables. In: Proceedings of the 1st Bridge Conference, Košice, March 13 – 15, 2002, pp. 47-52 (in Slovak)

[6] AGÓCS, Z.: Cable As a Structural Member. In: Proceedings of the 28th Meeting of Experts on Steel Structures, Piešťany, October 24 – 25, 2002, pp. 7-12 (in Slovak)

[7] AGÓCS, Z. – BRODNIANSKY, J.: Steel Structures of the Transit Pipeline on Slovak Territory. In: Proceedings of the 28th Meeting of Experts on Steel Structures, Piešťany, October 24 – 25, 2002, pp. 81-88 (in Slovak)

[8] ÁROCH R. – LAPOS J. – TATARKO P.: Experimental Verification of Resistance of Thin-Walled Elements of Arch Buildings, In: Proceedings of the 7th Scientific Conference (with international participation), Section 8: Steel and Timber Structures, Košice, May 22 – 24, 2002

[9] BALÁŽ, I.: Fillet Welds of Metal Structures. In: Proceedings of International Colloquium on Stability and Ductility of Steel Structures. Sept. 26-28, 2002 Budapest, Hungary, pp. 571-578

[10] BALÁŽ, I.: Resistance of Steel Girders Subjected to Concentrated Transverse Forces. In: Proceedings of International Colloquium on Stability and Ductility of Steel Structures. Sept. 26-28, 2002 Budapest, Hungary, pp. 457-464

[11] BALÁŽ, I.: Cable-Stayed Bridges. In: Proceedings of the 28th Meeting of Experts on Steel Structures, Piešťany, October 24 – 25, 2002, pp. 29-38 (in Slovak)

[12] BALÁŽ, I. – KOLEKOVÁ, Y.: Clark – Mrázik Formula for Critical Moments. In: Proceedings of International Colloquium on Stability and Ductility of Steel Structures. Sept. 26-28, 2002 Budapest, Hungary, pp. 39-46

[13] BALÁŽ, I. – KOLEKOVÁ, Y.: Critical Moments. In: Proceedings of International Colloquium on Stability and Ductility of Steel Structures. Sept. 26-28, 2002 Budapest, Hungary, pp. 31-38

[14] BALÁŽ, I. – KOLEKOVÁ, Y.: Warping. In: Proceedings of International Colloquium on Stability and Ductility of Steel Structures. Sept. 26-28, 2002 Budapest, Hungary, pp. 801-808

[15] BALÁŽ, I. – KOLEKOVÁ, Y.: Distortion of Thick and Thin-Walled Cross-Sections. In: Proceedings of the 7th Scientific Conference (with international participation), Section 8: Steel and Timber Structures, Košice, May 22 – 24, 2002 (in Slovak)

[16] BRODNIANSKY, J.: Glass in Steel Structures. Proceedings of the Third European Conference on Steel Structures, EUROSTEEL. Vol. I, Sept. 19-20, 2002, Coimbra, Portugal, pp. 77-84

[17] BRODNIANSKY, J.: Diagnosis and Reconstruction of Steel Structures. In: Proceedings of the 40th Conference on Steel Structures: Hustopeče 2002. Hustopeče, Czech Republic. December 5, 2002, pp. 23 –28 (in Slovak)

[18] BRODNIANSKY, J. – TUŽINSKÝ, I. – KOLLÁROVÁ, E.: Large Glass Walls at the Greatest Point of Strength. In: Üveg – épületszerkezetek, XXVII. Nemzetközi Épületszerkezettani Konferencia, Szödliget, Hungary, May 29-31, 2002, pp. 26-34

[19] BRODNIANSKY, J.: Footbridges. In: Proceedings of the 1st Bridge Conference, Košice, March 13 – 15, 2002, pp. 53-58 (in Slovak)

[20] BRODNIANSKY, J.: Diagnosis and Reconstruction of Steel Structures of Industrial Buildings. In: Proceedings of the 28th Meeting of Experts on Steel Structures, Piešťany, October 24 – 25, 2002, pp. 89-96 (in Slovak)

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