DEPARTMENT OF STEEL AND TIMBER STRUCTURES

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I. STAFF

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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 Structures	6	3	2	Z. Agócs
Steel Structures	6	2	2	Z. Agócs J. Brodniansky
Preparation of the First Degree Thesis	6	0	2	Z. Agócs R. Ároch I. Baláž M. Štujberová
Steel and Timber Structures	6	2	2	A. Benková J. Čierna
Steel and Timber Structures	8	2	2	A. Benková J. Čierna
Execution of Steel and Timber Structures	8	2	2	A. Benková
Construction Project	8	0	2	R. Ároch J. Lapos J. Sandanus
Steel Bridges II	8	3	1	J. Lapos
High-Rise and Long-Span Steel Structures	8	2	2	Z. Agócs J. Brodniansky
Timber Structures	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 R. Ároch I. Baláž J. Brodniansky F. Draškovič J. Lapos
Steel and Timber Members	5	4 – 2	I. Baláž F. Draškovič
Metal and Timber Structures	5	2 – 2	J. Brodniansky F. Draškovič
Steel and Timber Members	5	2 – 2	I. Baláž J. Brodniansky J. Sandanus
Steel Bridges I	7	2 – 2	J. Lapos
Urban Engineering Structures	7	2 – 2	J. Brodniansky F. Draškovič
Composite Structures	7	2 – 1	J. Lapos
Metal and Timber for Buildings	7	2 – 2	J. Brodniansky F. Draškovič
Steel, Timber and Glass in Architecture	7	2 – 1	J. Brodniansky F. Draškovič
Steel Structures and Bridges	7	2 – 2	I. Baláž J. Lapos
Stability and Plasticity of Metal Structures	9	2 – 2	I. Baláž J. Lapos
Steel Bridges	9	2 – 2	J. Lapos
High-Rise and Long-Span Steel Structures	9	2 – 2	Z. Agócs J. Brodniansky
Stability and Plasticity of Steel and Timber Structures	9	2 – 2	I. Baláž J. Lapos
Special Seminar	9	0 – 3	Z. Agócs R. Ároch I. Baláž J. Brodniansky F. Draškovič J. Lapos
Special Timber Structures	9	2 – 1	F. Draškovič
Thin-Walled Steel Structures	9	2 – 1	I. Baláž
Advanced Steel Structures	9	2 – 1	Z. Agócs

Optional Subjects

Subject	Semester	Hours Per Week		Lecturer
		Lectures	Seminars	
Composite Steel-Concrete Structures	8	2	2	J. Lapos

Special Timber Structures	8	2 – 2	F. Draškovič
Structures of Ecological Buildings	10	2 – 2	A. Benková
Technological Steel Structures	10	2 – 1	Z. Agócs
Diagnosis and Reconstruction of Steel and Timber Structures	10	2 – 1	Z. Agócs F. Draškovič

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 1/3310/06 Stability Problems of One-Dimensional and Plane Structures from Aluminium Alloys and Steels of Various Strengths (including High-Strength Steels). Verification and Improvement of Methods Used in Eurocodes (Prof. Baláž)
2. VEGA 1/3309/06 Combined Timber Beams – Real Behaviour, Development, Reconstructions (Assoc. Prof. Draškovič)
3. VEGA 1/3317/06 Theoretical and Experimental Analysis of Modern Light Structural Systems from Steel, Glass, Membranes and Cables. Diagnoses and Reconstruction of Important Structures and Pipelines (Assoc. Prof. Brodniansky)
4. Leonardo da Vinci Project: EURING - Development of ICT supported, flexible training to enable designers to apply Eurocodes in accordance with the national regulations of different member states (Ároch, Štujberová)

VI. COOPERATION

VI.1 Cooperation in Slovakia

1. FKL a brat, spol. s r.o.
2. Holcim Slovakia, a.s.
3. Hutní montáže, a.s.
4. Ing. Bojmír Stanislav, PhD., Žilina
5. Ing. Nádaský Pavol, PhD, Trnava
6. Ing. Recký Jozef, Bratislava
7. Ingsteel Bratislava
8. Latti – Extra, spol. s r. o.
9. Lidl, Slovakia, v.o.s.
10. Ministry of Construction and Regional Development of the Slovak Republic

11. City Office, Piešťany
12. City Office, Zvolen
13. Monsta Hlohovec
14. Obec Veľké Leváre
15. Občianske združenie pre obnovu Ipeľských mostov
16. Regionálna správa a údržba ciest Komárno, a.s.
17. Slov. elektrizačná prenosová sústava, a.s.
18. SPP, a.s., Nitra Transit Division
19. SPP, a.s., Senica Transit Division
20. Stavokov, Trenčín
21. Správa kultúrnych a športových zariadení mesta Trnava
22. SÚTN Bratislava
23. ŠDVÚ Bratislava
24. ÚSTARCH SAV, Bratislava
25. VÚC Banská Bystrica
26. Výskumný ústav zváračský, Bratislava

VI.2 International Cooperation

1. Academy of Steel Construction, Sheffield, UK
2. Aristotle University of Thessaloniki, Greece
3. ASTRON Building Systems, Luxembourg and the Czech Republic
4. Bauhaus Universität, Weimar, Germany
5. Centre Information Acier, Brussels, Belgium
6. ČVUT Prague, Czech Republic
7. ECCS, Brussels, Belgium
8. Eformút Kft., Tárczy László, Budapest, Hungary
9. Epistemics Ltd, Sheffield, UK
10. Faculty of Civil Engineering, VUT Brno, Czech Republic
11. Főmterv Budapest, Hungary
12. Foundation University of Oviedo, Spain
13. HTWS, Zittau, Germany
14. Institute of Continuing Training and Education for the Members of TCG, Athens, Greece
15. Politechnika Gdanska, Poland
16. Politechnika Szczeczinska, Poland
17. Politechnica Timisoara, Romania
18. Steel Construction Institute, Ascot, UK
19. Technical Chamber of Greece, Athens, Greece
20. Technische Universität, Cottbus, Germany
21. Technische Universität, Graz, Austria
22. Technische Universität, Munich, Germany
23. Technische Universität, Vienna, Austria
24. Technische Universität, Darmstadt, Germany
25. TU Budapest, Hungary
26. University of Liège, Belgium
27. University of Miskolc, Hungary
28. University of Stuttgart, Germany

VI.2.1 Visitors to the Department

1.-2. M. Mueller, S. Weiss – Wiley VCH, Weinheim, Germany, May 2 – 5, 2006
3. Prof. P. Osterrieder – Brandenburg Technical University, April 6 – 8, 2006
4.-7. Prof. V. Tomica, M. Rieger, V. Krivý, A. Lokaj – VŠB Ostrava, Czech Republic, Feb. 1 – 2, 2006
8.-15. Prof. J. Melcher, Assoc. Prof. M. Karmazínová, J. Barnat, M. Bajer, K. Sýkora, M. Štrba, M. Pilgr, B. Culek - VUT Brno, Czech Republic, Feb. 1 – 2, 2006
16.-38. Prof. F. Wald, Assoc. Prof. T. Rotter, Assoc. Prof. T. Vraný, J. Mareček, J. Skopalík, K. Mikeš, M. Jandera, A. Kuklíková, A. Jůza, J. Křížek, Z. Sokol, M. Eliášová, M. Truhlář, L. Heřmanová, R. Vyhnálek, J. Vídenský, A. Uhlíř, M. Čudejko, P. Chromiak, J. Dolejš, J. Henzl, J. Janovský, Z. Musilová - ČVUT Prague, Czech Republic, Feb. 1 – 2, 2006

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

1. J. Brodniansky – Town Hall, Mosonmagyarorvár, Hungary, Jan. 19, 2006
2. Z. Agócs – Town Hall, Mosonmagyarorvár, Hungary, Jan. 19, 2006
3. J. Brodniansky – Town Hall, Mosonmagyarorvár and Lovásbereny, Hungary, Jan. 31, 2006
4. Z. Agócs – Town Hall, Mosonmagyarorvár and Lovásbereny, Hungary, Jan. 31, 2006
5. M. Vanko – Town Hall, Mosonmagyarorvár and Lovásbereny, Hungary, Jan. 31, 2006
6. J. Brodniansky – Town Hall, Szécsény and FÖMTERV Budapest, Hungary, March 3, 2006
7. Z. Agócs – Town Hall, Szécsény and FÖMTERV Budapest, Hungary, March 3, 2006
8. J. Sandanus – WKO Vorarlberg, Ludesch, Austria, March 17 – 18, 2006
9. J. Sandanus – WKO Vorarlberg, Bödele, Austria, March 23, 2006
10. J. Brodniansky – Town Hall, Mosonmagyarorvár, Hungary, April 3, 2006
11. Z. Agócs – Town Hall, Mosonmagyarorvár, Hungary, April 3, 2006
12. J. Brodniansky – Town Hall, Mosonmagyarorvár, Hungary, April 10, 2006
13. Z. Agócs – Town Hall, Mosonmagyarorvár, Hungary, April 10, 2006
14. J. Brodniansky – Budapest and Sobe, Hungary, April 11, 2006
15. Z. Agócs – Budapest and Sobe, Hungary, April 11, 2006
16. J. Brodniansky – EFORMÚT, PONTERV, FÖMTERV, Szécsény and Budapest, Hungary, April 18, 2006
17. Z. Agócs – EFORMÚT, PONTERV, FÖMTERV, Szécsény and Budapest, Hungary, April 18, 2006
18. J. Sandanus – VOŠ, Volyně, Czech Republic, April 11 – 13, 2006
19. A. Benková – Brno, Czech Republic, April 27, 2006
20. F. Draškovič – Politechnika, Szceczin, Poland, May 11 – 14, 2006
21. A. Benková – VUT, Brno, Czech Republic, May 25, 2006
22. I. Baláž – TU, Cottbus, Germany, May 21 – 27, 2006
23. I. Baláž – Access Steel, Brussels, Belgium, June 12 – 14, 2006
24. R. Ároch – Access Steel, Brussels, Belgium, June 12 – 14, 2006
25. M. Štujberová – Ostrava, Czech Republic, June 15 – 16, 2006
26. J. Brodniansky – EFORMÚT, Szécsény and Budapest, Hungary, June 30, 2006
27. Z. Agócs – EFORMÚT, Szécsény and Budapest, Hungary, June 30, 2006
28. J. Brodniansky – FÖMTERV, Budapest, Hungary, July 5, 2006
29. Z. Agócs – FÖMTERV, Budapest, Hungary, July 5, 2006
30. M. Magura – Bauhaus University, Weimar, Germany, Aug. 6 – 19, 2006
31. I. Baláž – SDSS, Lisbon, Portugal, Sep. 5 – 9, 2006

32. F. Draškovič – Hochschule, Zittau, Germany, Sep. 20 – 22, 2006
33. J. Brodniansky – IASS, Beijing, China, Oct. 14 – 24, 2006
34. Z. Agócs – IASS, Beijing, China, Oct. 14 – 24, 2006
35. I. Baláž – CEN, Brussels, Belgium, Oct. 19 – 22, 2006
36. J. Brodniansky – EFORMÚT, Szécsény, Hungary, Nov. 10, 2006
37. Z. Agócs – EFORMÚT, Szécsény, Hungary, Nov. 10, 2006
38. R. Ároch – EURING, Sheffield, UK, Nov. 2 – 5, 2006
39. J. Brodniansky – Hustopeče, Czech Republic, Dec. 7, 2006
40. Z. Agócs – Hustopeče, Czech Republic, Dec. 7, 2006
41. I. Baláž – Hustopeče, Czech Republic, Dec. 7, 2006
42. A. Benková – Hustopeče, Czech Republic, Dec. 7, 2006

VII. THESES

VII. 1 Bachelor Theses

No.	Student´s name	Title	Supervisor
1.	Jozef Vičan	Resistance of Metal Cross-Sections	I. Baláž

VII. 2 Graduate Theses

No.	Student´s name	Title	Supervisor
1.	Róbert Abrahám	Multi-Storey Residential Building on Šancová Street in Bratislava	R. Ároch
2.	Pavol Bigoš	Bridging of Football Stadium in Dunajská Streda	J. Brodniansky
3.	Zuzana Bukovová	High-Rise Building – OBYDICK Residential House on Račianska Street in Bratislava	J. Brodniansky
4.	Michal Gregor	Bridging of Morava River for Pedestrians and Lightweight Vehicles at Záhorská Ves – Angern	F. Draškovič
5.	Radoslav Juriš	CBC1 High-Rise Administrative Building in Bratislava	R. Ároch
6.	Štefan Kurimský	Football Stadium in Ružomberok	J. Brodniansky
7.	Tomáš Laluha	Multi-Purpose Building in Prievidza	J. Sandanus
8.	Silvia Letková	Multi-Purpose Building in Poprad	J. Brodniansky
9.	Csaba Németh	Winter Stadium in Žiar nad Hronom	J. Brodniansky
10.	Jozef Sivák	Multi-Purpose Building in Poprad	J. Brodniansky
11.	Michal Kováč	Reconstruction of the Old Bridge over the Danube in Bratislava	J. Lapos
12.	Tomáš Uhliar	Design of a Steel Structure of a Multi-Purpose Building with a Retractable Roof	Z. Agócs
13.	Peter Vaník	Multi-Purpose Sport Building with a Large Span	Z. Agócs

VIII. OTHER ACTIVITIES

VIII.1 Commercial Activities for Firms and Institutions

1. Part 2 of the Terminological Standard Comprising the Eurocode Terminology in the Slovak, English, German and French Languages – I. Baláž
2. Adoption of European Standards (EN, ETS) into STN - Revision by Translation– I. Baláž
3. Project Documentation for Widening a Bridge over the Kis-Lajta River in Mosonmagyarorvár, Hungary – Z. Agócs, J. Brodniansky, M. Slivanský, K. Sógel, M. Vanko
4. Adoption of European Standards (EN, ETS) into STN - Revision by Translation – R. Ároch
5. Diagnoses of the Bridges of the SPP Transit Gas Pipeline, Phases I and II – J. Brodniansky, Z. Agócs, J. Sandanus, M. Štujberová, M. Magura
6. Lifetime Analysis of Bridges, Phases I and II – J. Brodniansky, Z. Agócs, M. Magura, M. Erdei, P. Mališ
7. Proposed Strain-Gauge Monitoring System Assigned for Long-Term Monitoring of Possible Additional Stresses in the TP Duct, Batka Site, Rimavská Sobota County – J. Brodniansky, Z. Agócs, M. Magura, M. Erdei
8. Appraisal of the Technical Condition of Steel Structures of Clinker Silos PC1 and PC2, Proposed Actions to Assure the Working Reliability and Structural Safety of the Silos at the Holcim (Slovakia) a.s. Rohožník Plant – Z. Agócs, P. Turček, R. Ravinger, Š. Sokol, J. Brodniansky, K. Sógel, M. Vanko
9. Control Inspection of the Load-Carrying Structure of the LIDL Stores – J. Sandanus
10. Control Inspections of the Load-Carrying Structures of the LIDL Stores – J. Sandanus, M. Slivanský, K. Sógel
11. Documentation of the Reconstruction of the Suspension Footbridge over the Biskupice Channel in Piešťany – J. Brodniansky, Z. Agócs, M. Slivanský, M. Vanko
12. A. Malatinský Stadium in Trnava – Roof of the West Grandstand, Project Documentation for the Construction Permit and Execution – J. Brodniansky, Z. Agócs, M. Slivanský, K. Sógel, M. Vanko, M. Magura, I. Bezák
13. Adoption of European Standards (EN, ETS) into STN – Revision by Translation – M. Štujberová
14. Proposed Reconstruction of the Roof Structure of the Winter Stadium, Pod dráhami 2290/21 Street, Zvolen – Z. Agócs, J. Brodniansky, J. Sandanus, M. Slivanský, K. Sógel
15. Design of Alternative Structure (New Anchoring Block) During Repair of Corrosion Defects of the Anchoring Block of the Sikenica River Bridge – Alternative Solution – J. Brodniansky, Z. Agócs
16. Reconstruction of the Elementary School Roof in Zvolen, Strengthening the Girders by Prestressing – Z. Agócs, J. Brodniansky, K. Sógel, J. Sandanus
17. Expert Appraisal of the Technical State of the Steel Structures of Clinker Silos PC1 and PC2 – R. Ároch, M. Slivanský
18. Evaluation of the Rectification Monitoring – Bridge No. 4 Trnávka – J. Brodniansky, Z. Agócs, M. Magura
19. Control of the Static Calculation and Drawings (Superstructure, Reconstruction of the Office of the Labour, Social Affairs and the Family in Topoľčany) – Z. Agócs, J. Brodniansky, M. Slivanský, M. Vanko
20. Adoption of European Standards (EN, ETS) into STN by Translation – M. Štujberová
21. Static Appraisal for the Clearage of a Chimney, Veľké Leváre Village – J. Sandanus

22. Expert Opinion on the Sample Removal from Silos PC1 and PC2 – J. Brodniansky, Z. Agócs, M. Slivanský
23. Adoption of European Standards (EN, ETS) into STN by Translation – M. Chladná
24. Control of Static Calculations of the Road Salt Storehouse in Trenčín – J. Sandanus, M. Slivanský
25. Adoption of European Standards (EN, ETS) into STN - Revision by Translation – M. Štujberová
26. Proposed Reconstruction of the Low Cover of DN 1200 TP 1 Pipe with a Strain-Gauge Monitoring of the Lowering of the Pipe in Nižná Kaloša – J. Brodniansky, Z. Agócs, M. Magura
27. Expert Opinion on the Technical Condition of the VTL 300 Gas Pipeline at the Bridging of the Uh Rivers – J. Brodniansky, Z. Agócs, M. Slivanský
28. Proposed Repair of the Anchorage of the Tuhársky Stream Self-Supporting Bridge – J. Brodniansky, Z. Agócs, M. Magura
29. Bridge No. 573-003 Loading Test over the Little Danube in Kolárovo – J. Lapos, P. Tatarko
30. Procedure for Diagnoses of Steel Mast Structures – Z. Agócs, J. Brodniansky, M. Magura
31. Additional Analysis of an Expert Opinion – Z. Agócs
32. Proposed Refurbishment of Clinker Silos PC1 and PC2 – Z. Agócs, J. Brodniansky, R. Ároch, M. Slivanský
33. Static Calculation of a Runway Steel Structure – J. Brodniansky, M. Magura
34. Proposed Rectification of the Laborec Bridge – J. Brodniansky, Z. Agócs, M. Magura

VIII.2 Conferences and Workshops Organised

1. Postgraduate Course on Design of Metal (Steel, Aluminium) and Timber Members and Structures According to European Standards, ESF Project: Continuing Education in Construction and Geodesy, Bratislava, Dec. 19, 2005, Jan. 10, 17, 24 and 30, 2006
2. Seminar of Young Scientific Workers from Steel and Timber Structures Departments of Slovakia and the Czech Republic. Theoretical and Constructional Problems of Steel and Timber Structures. Kočovce, February 2006
3. 21st Czech and Slovak International Conference on Steel Structures and Bridges, Bratislava, September 20-23, 2006

IX. PUBLICATIONS

IX.1 Journals

[1] AGÓCS, Z. – BRODNIANSKY, J. – SANDANUS, J. – SÓGEL, K.: Reconstruction of the Roof Structure of the Winter Stadium in Zvolen, KONSTRUKCE, Vol. 5., 5/2006, pp. 30-33 (in Slovak)

[2] AGÓCS, Z. - BRODNIANSKY, J. - VANKO, M. - SLIVANSKÝ, M.: Reconstruction of the Suspension Footbridge over the Biskupice in Piešťany. SILNICE, ŽELEZNICE, Vol. 1, 3/2006, pp. 3-5 (in Slovak)

[3] AGÓCS, Z. – BRODNIANSKY, J. – VANKO, M. – SLIVANSKÝ, M. – SÓGEL, K.: Reconstruction of Border Bridges Across the Ipeľ River, Stavba 1 – 2/2006, pp. 34-37 (in Slovak)

[4] BALÁŽ, I.: Arch Bridges. Stavební listy, Nos. 7-8, 2006, pp. 50-55 (in Slovak)

[5] BALÁŽ, I. – TÖLGYESSYOVÁ, H.: Technical Commission TK 111 in SÚTN: Application and Usage of Eurocodes. Eurostav, No. 4, 2006, pp. 62-63 (in Slovak)

[6] BALÁŽ, I. – TÖLGYESSYOVÁ, H.: Technical Commission TK 111: Application and Usage of Eurocodes. Normalizácia, No. 3, 2006, pp. 12-13 (in Slovak)

[7] BALÁŽ, I. – KOLEKOVÁ, Y.: American Stadiums with Retractable Roofs. Eurostav, No. 6, 2006, pp. 36-40 (in Slovak)

[8] BALÁŽ, I.: Publications Assisting the Design of Structures According to Eurocodes. Eurostav, No. 1, 2006, pp. 62-63 (in Slovak)

[9] BALÁŽ, I.: Publication of EN Eurocodes in CEN Brussels, Incorporation of STN EN Eurocodes into the STN System in Slovakia – March 2006 status. Eurostav, No. 2, 2006, pp. 73-75 (in Slovak)

[10] BALÁŽ, I.: ISO Standards, Their Effect on STN and Eurocodes. Eurostav, No. 3, 2006, pp. 61-63 (in Slovak)

[11] BALÁŽ, I.: National Stadium in Beijing. Eurostav, No. 6, 2006, pp. 46-48 (in Slovak)

[12] BALÁŽ, I.: Eurocode EN 1993 for the Design of Steel Structures. Eurostav, No. 6, 2006, pp. 88-89 (in Slovak)

[13] BALÁŽ, I.: Maintenance, Harmonization, Propagation and Further Development of Eurocodes. Eurostav, No. 8, 2006, pp. 80-81 (in Slovak)

[14] BENKOVÁ, A.: Economic and Ecological Aspects of Timber and Steel Cooperation While Designing Load-Carrying Systems. Konstrukce, Vol. 5, 2006, No. 3, pp. 36-38 (in Slovak)

[15] BRODNIANSKY, J. - SLIVANSKÝ, M.: Theoretical and Experimental Analyses of Glass Members. KONSTRUKCE, Vol. 5, 4/2006, pp. 20-22 (in Slovak)

[16] DRAŠKOVIČ, F.: Some Problems in Strengthening Timber Members Using High-Strength Materials. KONSTRUKCE, Vol. 2006, No. 6, pp. XV-XVII (in Slovak)

[17] ČIERNA, J. - DRAŠKOVIČ, F.: Some Problems in Strengthening Timber Members Using High-Strength Materials. KONSTRUKCE, Vol. 2006, No. 5, pp. 34 and 37 (in Slovak)

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