

DEPARTMENT OF TRANSPORT CONSTRUCTION AND TRAFFIC ENGINEERING

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I. STAFF

Professors

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Road Research Laboratory

Experimental Division of the Department of Transport Construction and Traffic Engineering

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Matej Malý

Gabriel Rajnák

Július Šiška

II. EQUIPMENT**II.1 Teaching and Research Laboratories**

The Department has a specialised road research laboratory at Technická 3, 821 04 Bratislava - Trnávka

II.2 Special Measuring Instruments and Computers

- Polaroid colour multimedia device and CYCLOP accessories
- Portable overhead projector
- Portable overhead projector 3M, 400W - LCD
- Integrating sound level meter - Bruel and Kjaer, Type 2231
- Nottingham asphalt tester (NAT)
- Apparatus for the automatic measurement of pavement surface friction
- Speed radar TSA – RFI – 1
- -Small Falling Weight Device

III. TEACHING**III.1 Graduate Study**

Subject	Semester	Hours per Week		Lecturer
		Lectures	Seminars	
Environment	1	2 - 2		Bezák
Land Ecology and Territorial Planning	3	2 - 2		Bezák
Land Ecology and Territorial Planning	3	2 - 2		Bezák
Transport Construction	5	1 - 1		Tomášiková
Transport Construction	5	4 - 2		Nemček
Transport Construction	6	3 - 2		Bačová
Road Construction	6	3 - 2		Gschwendt
Practicum	6	2 weeks		Bartošová
Bachelor Thesis	6			
Roads in Urban Areas	7	3 - 2		Bezák
Regional Road Settlements	7	2 - 2		Nemček
Transport Construction	7	2 - 2		Kapusta
District Plan	7	0 - 4		Bezák
Foreign Language	7	0 - 2		Tomášiková

Roads in Urban Areas	8	3 - 3	Bezák
Railways	8	4 - 2	Dostál
Airports	8	2 - 2	Bartošová
World Language	8	0 - 2	Gschwendt, Ripka
Typology of Structures	8	2 - 1	Bezák
Practicum	8	2 weeks	Bartošová
Pavement Diagnoses	9	2 - 2	Gschwendt
Road Intersections	9	2 - 2	Nemček
Pavement Mechanics	9	2 - 2	Gschwendt
Special Chapters from Airports	9	2 - 2	Bartošová
Specialised Seminar	9	0 - 3	Bačová
Specialised Seminar	9	0 - 3	Tomášiková
Railway Construction	9	2 - 2	Dostál
Train-Running Dynamics	9	2 - 2	Tomášiková
Computer Design	9	2 - 2	Tomášiková
Structural Elements	9	2 - 2	Tomášiková
Specialised Seminar	9	0 - 1	Bezák
Zone Advisory Plan	9	0 - 3	Bezák
Specialised Seminar	10	0 - 5	Bačová
Special Topics on Road and Motorways	10	3 - 2	Bačová
Reconstruction and Innovation of Roads	10	3 - 2	Bačová
Quality Control and Experiments	10	3 - 2	Gschwendt
Special Transport Construction Themes	10	3 - 2	Dostál
Transport Management	10	2 - 2	Bezák
Urban Traffic Planning	10	0 - 2	Bezák
Specialised Seminar	10	0 - 5	Tomášiková
Special Railway Topics	10	3 - 2	Dostál
Railway Laboratory	10	3 - 2	Dostál
Track Modernisation and HST	10	3 - 2	Dostál
Special Transport Construction Topics	10	3 - 2	Bačová
Diploma Thesis	10	5 weeks	Bačová
Diploma Thesis	10	5 weeks	Dostál

IV. RESEARCH TARGETS

The Department's scientific and experimental bases are used for the following research problems:

- theory of the planning, design and operation of various types of transport structures connected with their capacities and environmental impacts,
- theory of transportation safety management and traffic interaction in regions,
- quality of road-building materials and energy consumption in road construction and the operation of road and railway networks,
- surface characteristics, serviceability and service efficiency of road pavements,
- theory of dynamic train operations.

V. RESEARCH PROJECTS

1. Sustainable Quality of Urban Transport Infrastructure, VEGA (200-2002, B. Bezák)
2. Research of Factors and Conditions of Service Life of Pavement Structures for Trafficked Areas (2000, K. Bačová)
3. Research into Factors Affecting the Volume and Quality of Railway Station Operations in Trains Shunting Goods (2001, Tomášiková)
4. New Evaluation of the Functional Properties of Bituminous Road Surfacing Mixtures under Laboratory Conditions (2000, K. Grünner)

VI. COOPERATION

VI.1 Cooperation in Slovakia

1. Slovak Road Directorate
2. Road Engineering Co. Ltd. Nitra, Košice, Prešov
3. Slovasfalt Co. Ltd. Bratislava
4. Research Institute of Engineering Structures - Roads Co. Ltd., Bratislava
5. Engineering Structures Košice
6. Doprastav, A. C. Bratislava
7. AUREX Ltd. Bratislava
8. Land Use Planning Bureau, E.I.A.
9. Dopravoprojekt, A.C. Bratislava
10. Municipal Offices of Bratislava, Banská Bystrica, and Prievidza
11. CMK Co. Ltd., Zvolen
12. Bitunova Co. Ltd., Zvolen
13. Geoconsult, Co. Ltd., Bratislava
14. Municipal Offices of Trnava, Banská Štiavnica, Trenčín
15. SUTN
16. MDPaT

VI.2 International Cooperation

The “ PORTAL” Project No: 2000 – RD. 11024

- University of Technology of Vienna, Austria
- University for Bodenkultur Vienna, Austria
- Institute for Transport Planning and Traffic Engineering, Vienna, Austria
- University of Maribor, Slovenia
- Technical University of Budapest, Hungary
- Technical University of Prague, Czech Republic
- Centre for Continuing Education in Transportation Engineering, Warsaw, Poland

The “ COMPASS” Project No: 1999 – RD. 10480

- 22 organisations are participating in the project

Other International Cooperation

1. Technical University of the Rhineland – Westphalia, Aachen, Germany
2. Aristotle University of Thessalonika, Greece
3. Federal Environmental Ministry, Vienna, Austria
4. Institute for Planning and the Environment, Vienna, Austria
5. German Academy for Town and Country Planning, Germany
6. Provincial Capital of Hannover, Germany
7. Federal Ministry of Transport, Bonn, Germany
8. LCPC Paris, Nantes, France
9. BP Hamburg, Germany
10. PEBA Berlin, Germany
11. TPA Vienna, Austria
12. CFF Mönchengladbach, Germany
13. CEN/TC 256, Belgium
14. Industry Viertel – Vienna, Austria
15. Salzburger Landesregierung, Salzburg, Austria
16. Hungarian Academy of Science Regional Research Center, Győr, Hungary
17. West Transdanubian Regional Development Agency, Győr, Hungary
18. Győr Statverwaltung, Győr, Hungary
19. CEI – Central European Initiative by Austrian Federal Ministry for Agriculture, Forestry, Environment and Water Management, Vienna, Austria
20. DASL – Deutsche Akademie fuer Städtebau und Landesplanung, Niedersachsen-Bremen, Germany, section Transport and Landscape
21. TRAFICO - Verkehrsplanung, Vienna, Austria
22. CKAIT – The Czech of Civil Engineers and Technicians, Karlovy Vary

VI.2.1 Visitors to the Department

Name	Organisation	Country	Stay
Werner Kvarda	BoKu Vienna	Austria	1x2, 1x5 days
Gerd Sammer	BoKu Vienna	Austria	1x2 days
Wolfgang Berger	BoKu Vienna	Austria	1x5 days
Smiljan Vukanović	TU Belgrade	Yugoslavia	1x2 days
Emese Makó	SIC Győr	Hungary	1x5 days
Edit Koren	SIC Győr	Hungary	1x5 days
Csaba Koren	SIC Győr	Hungary	1x2, 1x5 days
Csaba Orosz	TU Budapest	Hungary	1x1, 1x2 days
Marian Tracz	TU Craców	Poland	1x2, 1x5 days
Marian Toplak	University of Maribor	Slovenia	1x5 days
Hartmund Münch	FH Erfurt	Denmark	1x4, 1x5 days
Robert Schnüll	TU Hannover	Denmark	1x5 days
Aida Macerinskiene	TU Vilnius	Estonia	1x5 days

Pavol Čársky	ČVUT Prague	Czech Republic	1x5 days
Mária Čárska	ČVUT Prague	Czech Republic	1x5 days

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

- Bačová, K.: Meeting, Budapest, 1 x 3 days
- Bezák, B.: European Parliament, Vienna, 1 x 1 day
- Bezák, B.: CEI Vienna, 3 x 1 day
- Bezák, B.: TU Vienna, 2 x 1 day
- Bezák, B.: TECNIC Rome, 1 x 4 days
- Bezák, B.: ITS Prague, 1 x 1 day
- Bezák, B.: PIARC Copenhagen, 1 x 4 days
- Bezák, B.: BoKu Vienna, 1 x 1 day
- Bezák, B.: THEMIS, Brussels, 1 x 3 days
- Bezák, B.: SETREF Budapest, 1 x 3, 1 x 2 days
- Bezák, B.: PORTAL Graz, 1 x 2, 1 x 4 days
- Bezák, B.: Eisenstadt, 1 x 2 days
- Bezák, B.: COMPASS San Sebastian, 1 x 4 days
- Bezák, B.: SETREF, Thessaloniki, 1 x 4 days
- Bezák, B.: PORTAL Lyon, 1 x 4 days
- Bezák, B.: AD,Kittssee, 1 x 1 day
- Rondoš, L.: ČVUT Prague, 1 x 2 days
- Gschwendt, I.: TU Dresden, 1 x 3 days
- Gschwendt, I.: TU Vienna, 1 x 1 day
- Dostál, K.: VŠB-TU Ostrava, 1 x 2 days
- Rakšányi, P.: CEI Vienna, 4 x 1, 1 x 2 days
- Rakšányi, P.: TU Vienna, 1 x 1 day
- Rakšányi, P.: ČKAIT Karlovy Vary, 1 x 5 days
- Rakšányi, P.: DASL Berlin, 1 x 4 days
- Rakšányi, P.: ARIP Prague, 1 x 2 days
- Muška, J.: TU Belgrade, 1 x 4 days
- Lakoščík, A.: TU Belgrade, 1 x 4 days
- Lakoščík, A.: BoKu Vienna, 1 x 1 day
- Lakoščík, A.: AD,Kittssee, 1 x 1 day
- Nemček, M.: VŠB-TU Ostrava, 1 x 2 days
- Bačová, Z.: TU Dresden, 1 x 3 days
- Tomášiková, E.: REMING, 1 x 4 days
- Barciová, L.: SIC Gyor, 1 x 1 day
- Hrnčiar, M.: PORTAL Lyon, 1 x 4 days
- Ľos, P.: PORTAL Paris, 1 x 3 days
- Ripka, I.: PORTAL Lund, 1 x 4 days

VII. THESES

VII.1 Graduate Theses

No.	Student's name	Title	Supervisor
1.	Michal Bodnár	Modernisation of Púchov Railway Station	E.Tomášiková

2.	Zdenko Kubina	Road I/50 Rimavská Sobota – Figa - Study	V.Kapusta
3.	Andrea Ďurišová	Concrete Pavement in Tunnel on Motorway D18 Kysucké N.Mesto – Hričovské Podhradie	I.Gschwendt
4.	Roman Sloboda	Road I/18 Žilina – Strážov – Motorway Access	J.Tomko
5.	Peter Tekel'	Airport Evaluation in Prešov Area for cargo Purposes	Ľ.Bartošová
6.	Juraj Leškovský	Technical and Economic Comparison of Asphalt and Concrete Pavements on Bridges	K.Bačová
7.	Martin Hud'an	Cold Technologies for Reconstruction and Maintenance of Road Network	K.Bačová
8.	Peter Fordek	Intersection of Motorway D2 and Road III/00239	M.Nemček
9.	Marek Miškerik	Road II/502 in Modra Surrounding – Bypass Study	Ľ.Bartošová
10.	Martin Vávra	Road I/63 Dunajská Streda – Nové Zámky – Study	J. Tomko

VII.2 Doctoral Theses

No.	Student's name	Title of doctoral work	Supervisor
1.	Ing. Peter Rakšányi	Multicriterial Evaluation Methodology of Urban Road Network : Interaction Area-Transport-Area	B. Bezák
2.	Ing. Martin Kapusta	Effect of Traffic-Engineering Parameters on Equivalent Noise Level	K. Bačová

VIII. OTHER ACTIVITIES

VIII.2 Commercial Activities for Firms and Institutions

1. Transformation of input data for Tensar – Pave computer programme. - I. Gschwendt
2. Design of flexible and semirigid pavements. Technical recommendation. - I. Gschwendt
3. Cement concrete pavements – Study for decision-making. - I. Gschwendt
4. Laboratory tests of materials, an experimental section of D 61 with geosynthetics. - I. Gschwendt
5. Design, calculation and evaluation of concrete cement pavement – Sitina Tunnel. - I. Gschwendt
6. Selection and Proposal for the Implementation of International Standart for Railways – Tomášiková
7. Inventory of Pavement Distress on VPD 04-22 and VPD13-31. Evaluation of Results from Pavement Condition Survey and Report t Runway Condition – R. Staňo
8. The Application of Geosynthetics in Road Construction – R. Staňo
9. The Evaluation of the Serviceability of Flexible and Semirigid Asphalt Pavements - R. Staňo
10. AA Aggregate in Pavement Structure - R. Staňo

IX. PUBLICATIONS

IX.1 Journals

- [1] DOSTÁL, K.: The Modernization of the Trnava – Nové Mesto nad Váhom Railway-Line. In: Projekt a Stavba, No. 2/2001, pp. 15 – 16
- [2] BARTOŠOVÁ, Ľ.: Drainage of Road Communications. In: Projekt a Stavba, No. 10/2001, pp. 30 – 32
- [3] DOSTÁL, K.: Transition Curves on Modernized Railway - Lines. In: Projekt a Stavba, No. 4/2001, pp. 25 – 26
- [4] DOSTÁL, K.: New Construction of Railway Platforms. In: Projekt a Stavba, No. 6/2001, p. 27
- [5] DOSTÁL, K.: Reviews: Port of Pálenisko – Impetus for Urban Development of Bratislava. In: Projekt a Stavba, No. 9/2001, p. 29
- [6] RAKŠÁNYI, P.: Station Place of Main Railway Station in Bratislava, In: Urbanistic and Architect open competition, winner of 3rd prize with: Janák, Rakšányi, Vrana, Krížik, VŠVU, Bratislava, 10/2001
- [7] RAKŠÁNYI, P.: The Quality of open Public Spaces in a City, In: PS – Project and Building, SKSI, Bratislava, 2001, 6/2001, pp.12-15 RAKŠÁNYI, P.: Port of Pálenisko – Impetus for Urban Development of Bratislava, In: Projekt a Stavba, No 9/2001, pp. 29-32
- [8] TOMÁŠIKOVÁ, E.: Some Problems in Implementing European Standards in Railway Transport. In: Horizonty dopravy, No.2001/4, pp.14-16
- [9] TOMÁŠIKOVÁ, E.: European High-Speed Traffic has a Great Future. In: Horizonty dopravy, No. 2001/4, pp. 37-38
- [10] TOMÁŠIKOVÁ, E.: TNK Activity No. 88 Railways and Rail Vehicles In: NORMALIZÁCIA, No. 3-4/2001. pp. 11-12
- [11] TOMÁŠIKOVÁ, E.: Recognized Workplace Function. NORMALIZÁCIA, No. 3-4/2001, pp. 46-48
- [12] TOMÁŠIKOVÁ, E.: TNK - New Tasks In: Spravodajca SSTN, No. 1- 2/2001, pp.12-13
- [13] Bezák, B: Mobility, Regional and Cross-Border Transport Infrastructure In: Stavba a projekt, No. 12/2001, SKSI Bratislava, pp. 33-37

IX.2. Books and Textbooks

- [1] GSCHWENDT, I., et al: Road Pavements – Materials and Technology. Jaga Group Bratislava, 2001, 207 pp. (in Slovak)
- [2] GSCHWENDT, I. – STAŇO, R. – ŠTEVUŠKA, I. – DOSTÁL, K.: Road Diagnoses. SvF STU Bratislava, 2001, 156 pp.
- [3] BEZÁK, B., BAČOVÁ, K., GSCHWENDT, I.: Transport Structures. Institute of Legal Expertise, SvF STU Bratislava 2000

IX.3 Conferences

- [1] GSCHWENDT, I. – STAŇO, R. – BAČOVÁ, Z.: Diagnosis and Pavement Rehabilitation Design. In: Proceedings of International Conference on Durable and Safe Road Pavements, Kielce 2001, pp. 249 – 256
- [2] STAŇO, R. - GSCHWENDT, I.: Reusing Reclaimed Asphalt Mixes in Road Pavement Base Courses. In: Proceedings of Asphalt Pavements 2001 Conference, České Budejovice 2001, pp. 155 – 159 (in Slovak)

- [3] GSCHWENDT, I. – BAČOVÁ, Z.: Road Pavements for Nonstandard Conditions. In: Proceedings of Asphalt Pavements 2001 Conference, České Budejovice 2001, pp. 399 – 402 (in Slovak)
- [4] GSCHWENDT, I. – STAŇO, R.: Base Courses of Cement Concrete Pavements. In: Proceedings of 6th Ivan Poliaček Seminar, Bratislava 2001, pp. 15 – 21 (in Slovak)
- [5] GSCHWENDT, I. – BAČOVÁ, Z.: Cement Concrete Pavements in Tunnels. In: Proceedings of 6th Ivan Poliaček Seminar, Bratislava 2001, pp. 68 – 74 (in Slovak)
- [6] GSCHWENDT, I.: Traffic Load Characteristics for Asphalt Pavement Design. In: Proceedings of Seminar on Pavements for Heavy Traffic Load, Stará Lesná 2001, pp. 25 – 28 (in Slovak)
- [7] GSCHWENDT, I.: Scientific Work and Education in Universities. In: 8th International Scientific Conference MOBILITA '01, SvF STU Bratislava 2001, pp. 471-474
- [8] BARTOŠOVÁ, Ľ.: Sustainability of Air Transport Infrastructure. In: 8th International Scientific Conference MOBILITA '01, SvF STU Bratislava 2001, pp. 231-235
- [9] BAČOVÁ, K.: Concrete Pavements at Public Transport Stations. In: Proceedings of 6th Ivan Poliaček Seminar, Bratislava 2001, pp. 36 - 40 (in Slovak)
- [10] BAČOVÁ, K.: Increase in the Quality of Asphalt Pavement Courses. In: International Seminar Q 2001 Asphalt Pavements, Žilina 2001, pp. 50 - 55 (in Slovak)
- [11] BAČOVÁ, K.: Cold Technologies and Their Use in the Reconstruction of Road Communications. In: Proceedings of Motorway and Roads, Bratislava 2001 (in Slovak)
- [12] RAKŠÁNYI, P., BEZÁK, B.: Slovakia – Contribution of CEI/FIST Workshop Vienna, In: Financing Sustainable Transport Infrastructure and Technology Focusing on CEEC and NIS, Central European Initiative, Vienna 2001
- [13] RAKŠÁNYI, P.: Sensitive Areas 2001 – Contribution of the Slovak Republic, In: International Conference and UNCE Workshop on Sensitive Areas – a Key Challenge for the Environment and Transport, Eisenstadt 2001
- [14] RAKŠÁNYI, P.: Sustainable Quality of an Urban Transport Infrastructure, International and National Research, Poster Presentation of GVV 801/7121/20, In: DASL Conferences and MOBILITA' 01, - Leipzig, May 2001, Bratislava, September 2001
- [15] RAKŠÁNYI, P.: Kollar Square in Bratislava, In: Municipal Engineering Karlovy Vary 2001, 6th International Conference, Karlovy Vary 2001, pp. 1-10 (in German)
- [16] RAKŠÁNYI, P.: Need for Combined Transport: The Impetus for the Development of City Regions and the State, In: EUROKOMBI 2001, International Conference on Transport and Environment in the Third Millennium, Ministry of Transport, Post and Telecommunications of the SR, Žilina 2001, p. 8 (in Slovak)
- [17] RAKŠÁNYI, P.: The Quality of the Transportation Infrastructure in a City, In: 8th International Scientific Conference: MOBILITA '01, SvF STU Bratislava 2001, pp. 379-384 (in German)
- [18] RAKŠÁNYI, P.: Underground Urbanism and Transport Networks in Slovak Cities, In: Proceeding of Conference on Transport in Urban Agglomerations, SVF-TU Žilina 2001. pp. 251-258 (in Slovak)
- [19] RAKŠÁNYI, P.: Support Measures for an Intermodal Transport System: Examples of Specific Zones in Bratislava, In: CZ-INTERMODAL Conference on Combined Transport, Round Table Section, Prague 2001 (in Slovak)
- [20] RAKŠÁNYI, P.: Democracy, Comprehensiveness and Public Participation in the Urban Planning Process, In: Proceedings of 3rd Colloquium on Territorial Planning and Building Law, Ministry of the Environment of the Slovak Republic, Banská Bystrica 2001, pp. 112-117 (in Slovak)
- [21] NEMČEK, M.: Concrete Pavement Noise Emissions. In: Proceedings of 6th Ivan Poliaček Seminar, Bratislava 2001, pp. 30 – 35 (in Slovak)

- [22] KAPUSTA, V.: Through Roads in Mid-Sized Towns in the Slovak Republic. In: 8th International Scientific Conference: MOBILITA '01, SvF STU Bratislava 6-9.9.2001, pp. 271 – 275 (in German)
- [23] BAČOVÁ, K.: Effect of a Traffic Load on an Asphalt Pavement Structure. In: VIIth International Conference on Durable and Safe Road Pavements, Kielce 8-9 May 2001, pp. 187- 192
- [24] KLEMENTOVÁ, E. -BEZÁK, B.: Course on Landscape Ecology and Land-Use Planning for Civil Engineers. In: 8th International Scientific Conference: MOBILITA '01, SvF STU Bratislava 2001, pp. 495-499 (50%)
- [25] BEZÁK, B.: The Role of Main Street in Small and Mid-Sized Cities. In: 8th International Scientific Conference: MOBILITA '01, SvF STU Bratislava 2001, pp. 259-262
- [26] BEZÁK, B.: Roads Across the Three-Border Danube Region In: CD Proceedings of the 8th Budapest International Road Conference, KTE, MAÚT Budapest, 21-23 May 2001
- [27] BEZÁK, B.: Frame of the Main Transport Network of Settlement In: Proceedings of the 3rd International Conference on Transport in an Urban Agglomeration, CeTra Zilina 2001, pp. 267 - 274
- [28] BEZÁK, B.: New Forms of Passenger Mass Transport Accessibility. In: Proceedings of the 5th International Conference on Passenger Mass Transport, DT ZSVTS Bratislava 2001, pp. 61 – 65
- [29] BEZÁK, B.: Main Street in Countryside Settlements. In: Proceedings of the 1st International Conference on Architectural and Urban Aspects of Countryside Renewal, KA SvF STU Bratislava 2001, pp. 24-27
- [30] TOMÁŠIKOVÁ, E.: New European Standards in the Dynamics of Vehicle Movement Section. In: International Scientific Conference: MOBILITA, KDS SvF 2001(in German)
- [31] TOMÁŠIKOVÁ, E.: Arrangements for Intermodal Transport Support. In: International CZ – INTERMODAL Conference, Prague 2001, CD (in Slovak)
- [32] TOMÁŠIKOVÁ, E.: European Railways Standardisation. In: 11th, International Conference on Railway Modernization, ŽU SvF KŽSTH, Žilina 2001, pp. 125-129 (in Slovak)
- [33] STAŇO, R.: Evaluation of a Cement Concrete Pavement Dating from 1960 – 1975. In: Proceedings of 6th Ivan Poliaček Seminar, Bratislava 2001, pp. 7 – 14 (in Slovak)
- [34] STAŇO, R.: Unbound Materials in a Pavement Structure. In: International Seminar Q 2001 Asphalt Pavements, Žilina 2001, pp. 50 - 55 (in Slovak)
- [35] STAŇO, R.: Unbound Layers in Motorway Pavements. In: Proceedings of Seminar on Pavements for Higher Axle Loads, Stará Lesná 2001, pp. 45 – 52 (in Slovak)
- [36] DRUGA, J. – STAŇO, R.: Experimental Section of Asphalt Pavement with Unbounded Base Layer from MSK. In: Proceedings of Seminar on Pavements for Higher Axle Loads, Stará Lesná 2001, pp. 101 – 106 (50%) (in Slovak)
- [37] DOSTÁL, K.: The Transition Curve on Modernized Railway Lines. In: 8th International Scientific Conference: MOBILITA '01, SvF STU Bratislava.2001, pp. 209 - 214