

DEPARTMENT OF TRANSPORT CONSTRUCTION AND TRAFFIC ENGINEERING

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I. STAFF

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Road Research Laboratory

Experimental Division of the Department of Transport Construction and Traffic Engineering

Deputy to the Department Head
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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	
Land Ecology, Town and Land Use Planning	3	2	– 2	Bezák
Infrastructure of Urban Areas	3	2	– 2	Bezák
Transport Construction	5	1	– 1	Dostál
Roads and Highways	5	4	– 2	Nemček
Land-Use Planning and Infrastructure Atelier	5	0	– 3	Bezák
Transport Construction	6	3	– 2	Bačová
Road Construction	6	3	– 2	Bačová
Design of Transport Structures and Transportation Systems	6	2	– 2	Bartošová
Practicum	6	2	weeks	Bartošová
Roads in Urban Areas	7	3	– 1	Bezák
Regional Road Settlements	7	2	– 2	Nemček
Transport Construction	7	2	– 2	Kapusta
Construction Design	7	0	– 4	Bezák
Urban Planning	7	2	– 1	Bezák
Land-Use Planning	7	0	– 4	Bezák
Roads in Urban Areas	8	3	– 3	Bezák

Railways	8	3 - 2	Dostál
Airports	8	2 - 2	Bartošová
Transport Planning	8	2 - 2	Bezák
Land-Use Planning	8	0 - 3	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	Bezák
Zonal Outline Study	9	0 - 3	Bezák
Design Studio	9	0 - 5	Bezák
Zone Advisory Plan	9	0 - 3	Bezák
Specialised Seminar	10	0 - 5	Bačová
Special Topics on Roads 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 Transport Planning	10	0 - 2	Bezák
Transport in Land-Use Planning	10	0 - 3	Bezák
Specialised Seminar	10	0 - 5	Tomášiková
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 spatial arrangement elements of a through road, VEGA (2003-2005, B. Bezák)
2. Structural and material variants of asphalt pavements, VEGA (2003-2005, K. Bačová)
3. Track constructions for corridor lines (2004-2006, Tomášiková)
4. Improvement of the Resistance of Asphalt Mixtures Against Plastic Deformations (2003-2005, K. Grünner)
5. Project EC, 5th FW- RTD: ECOCITY, EVK-CT-2001-00056, Urban Development towards Appropriate Structures for Sustainable Transport, Participants: STU, Pridos, MsU Trnava, 3rd Year – part: Evaluation of Local Ecocity Master Plan of Trnava and Results

of 7 Master Plans (criteria: soil movement, noise, parking and Pt-stop provisions), (2002-2005, Rakšány, P., leader of Slovak Consortium), published in www.ecocityprojects.net

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, Chynorany, Zvolen, Bratislava, Myjava
15. SUTN
16. MDPaT
17. PSKD, Reming Consult a.s., Bratislava
18. BSK – Bratislavský samosprávny kraj
19. ZMOS – Združenie miest a obcí Slovenska, Bratislava
20. United Industries, a.s., Bratislava/Trnava

VI.2 International Cooperation

New ECOCITY Project main partners:

1. Institute for Economic Geography, Regional Development and Environmental Management, Vienna, Austria
2. Institut fuer Ortliche Raumplanung, Vienna, Austria
3. BOKU - Institut fuer Raumplanung und Laendliche Neuordnung, Universitaet fuer Bodenkultur, Vienna, Austria
4. Technical Research Centre of Finland, Espoo, Finland
5. GEA '21 - Grupo de Estudios y Alternativas 21 S.L., Madrid, Spain
6. PRAU - Progettazione per il Restauro L'Architettura e L'Urbanistica, Rome, Italy
7. EBOEK - Ingenieurbuero fuer Energieberatung, Haustechnik und Oekologische Konzepte GbR, Tuebingen, Germany
8. University of Tampere, Finland
9. NOVEM - Nederlandse Onderneming Voor Energie en Milieu bv, The Netherlands

Other International Cooperation

1. Technical University of the Rhineland – Westphalia, Aachen, Germany
2. Aristotle University of Thessaloniki, 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 Munchengladbach, Munich, 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, Transport and the Environment Subgroup, by Austrian Federal Ministry for the Environment, Youth and Family Affairs, Vienna, Austria, Delegation of SR-Transport, since 1997
20. DASL – Deutsche Akademie für Städtebau und Landesplanung, Gruppe Verkehr und Umwelt, Niedersachsen-Bremen, Berlin, Germany, member-correspondent since 1996
21. Strassenentwurf, Hannover, Germany NAST- consulting GmbH fuer Verkeh und Umwelt,
22. Nadler, F., Vienna, Austria
23. OECD, Paris, France
24. TRAFICO - Verkehrsplanung, Vienna, Austria
25. CKAIT – The Czech Association of Civil Engineers and Technicians, Karlovy Vary

VI.2.1 Visitors to the Department

Name	Organisation	Country	Stay
Robert Schnull	TFH Hannover	Germany	4 day
Heinz Petzmann	AVT-ARGE Vienna	Austria	1day
Milan Rožník	SUDOP Prague	Czech Republic	1day
Petr Smítal	TU Brno	Czech Republic	2 days
Jan Komárek	TU Brno	Czech Republic	2 days
V.Kuta	TU Ostrava	Czech Republic	1day
František Kuda	TU Ostrava	Czech Republic	1day
Vladimír Koudelka	TU Ostrava	Czech Republic	1day
Renáta Zdařilová	TU Ostrava	Czech Republic	1day
Petr Zobal	ČVUT Prague	Czech Republic	1day
František Lehovec	ČVUT Prague	Czech Republic	1day
Robert Schnull	TFH Hannover	Germany	2 days
Rein Ahas	University of Tartu	Estonia	1day
Jorn Jansen	TFH Hannover	Germany	2 days
Ben Immers	Catholic University of Leuven	Belgium	2 days
Marija Burinskiene	GTU Vilnius	Lithuania	1day
Rasa Uspalyte-Viktumniene	GTU Vilnius	Lithuania	1day
Daiva Zilioniene	GTU Vilnius	Lithuania	1day
Balasz Pasti	TU Budapest	Hungary	1day
Csaba Sik	TU Budapest	Hungary	1day

Csaba Koren	SIC Gyor	Hungary	2 days
Ferenc Horvat	SIC Gyor	Hungary	2 days
Emesse Makó	SIC Gyor	Hungary	2 days
Zsuzsa Tóth	SIC Gyor	Hungary	2 days
Reinhard Hössinger	BoKu Vienna	Austria	1 day
Gerhard Schilk	VIA Donau, Vienna	Austria	2 days
Mario Sattler	VIA Donau, Vienna	Austria	2 days
Steve Morello	ISIS Lyon	France	1 day
Marjolien De Jong	TU Delft	The Netherlands	2 days
George Giannopoulos	HIT Thessaloniki	Greece	1 day
P. Papaioannou	Aristotle Univer. Thessaloniki	Greece	1 day
Anžek Vogril	FP Zagreb	Croatia	2 days
M.A.Alsanafy	Thamar University	Yemen	1 day
Werner Kvarda	Academia Danubiana, Hainburg	Austria	2 days
Sonja Steiner	University of Zagreb	Croatia	1 day
Calina Nistor	Fi Louis Berger, Bucharest	Romania	2 days
Hartmund Münch	FHE Erfurt	Germany	2 days
Alexander Wandl	Lacon, Vienna	Austria	2 days
Herman Knoflacher	TU Vienna	Austria	1 day
Smiljan Vukanović	TU Belgrad	Serb Republic	1 day
Ernst Lung	Bundesministerium Verkehr, Vienna	Austria	1 day
Jorn Janssen	Schnuell-Haller, Hannover	Germany	3 days
Albert Jansen	NOVEM, Ministry of Economics	Netherlands	2x1 week
Robert Schnull	Schnuell-Haller, Hannover	Germany	2x 3 days

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

1. Bačová, K.: Lecture, Ostrava, 1 x 2 days
2. Gschwendt, I.: Congress, Vienna, 1 x 4 days
3. Bezák, B.: Graz, 1 x 1 day
4. Bezák, B.: University BoKu Vienna, 2 x 1 day
5. Bezák, B.: Thesis Examination, Olomouc, Brno, Ostrava, 1 x 5 days
6. Bezák, B.: FAK Koln n/R, 1 x 6 days
7. Rakšányi, P.: Conference ČVUT, Prague, 1 x 4 days
8. Rakšányi, P.: Congress IVWSR, Oslo, 1 x 8 days
9. Rakšányi, P.: ECOCITY Workshop Umbertide, 1 x 6 days
10. Rakšányi, P.: DASL Conference Monster, 1 x 5 days
11. Bačová, K.: Meeting, Lednice na Morave, 1 x 2 days
12. Nemček, M.: Meeting, Lednice na Morave, 1 x 2 days
13. Bartošová, E.: Meeting, Lednice na Morave, 1 x 2 days
14. Kapusta, V.: Meeting, Lednice na Morave, 1 x 2 days

15. Rondoš, L.: Thesis Examination, Prague, 1 x 3 days
16. Ďurišová, A.: Conference, Brno, 1 x 2 day
17. Ďurišová, A.: Conference, Brno, 1 x 1 day
18. Ďurišová, A.: LEONARDO DA VINCI, London, 1 x 101 days
19. Ľos, Peter.: FHE, Erfurt, 1 x 4 days
20. Ľos, Peter.: Conference, Lincoln, Nebraska, USA, 1 x 9 days
21. Vachaja, A.: Conference, Prague, 1 x 2 days
22. Kotyra M.: Conference, Brno, 1 x 1 day

VII. THESES

VII.1 Graduate Theses

No.	Student's name	Title	Supervisor
1.	Bc. Michal Ábel	Comparison of the Deformation Characteristics of Asphalt Mixtures with Various Types of Asphalts	K. Grüner
2.	Bc. Ladislav Filo	D1 Motorway – "Blatné" Interchange Study	M. Nemček
3.	Bc. Nikola Grančič	Road Study I/50, Section Zvolenská Slatina – Kriváň	K. Bačová
4.	Bc. Ladislav Važan	Route Study of R1, R2 and R3 Roads in Urban Area of City of Zvolen	K. Bačová
5.	Bc. Radovan Palacka	Construction and Technical Evaluation of Airport at Trenčín – Dubnica	Ľ. Bartošová
6.	Bc. Juraj Papanek	Technical Study of D1: Mengusovce – Matejovce Motorway	V. Kapusta
7.	Bc. Ivana Jonášová	Pavement for Motorway Tunnels	I. Gschwendt
8.	Bc. Branislav Jedinák	Characteristics of Road Construction Mixtures from Recycled Materials	I. Gschwendt
9.	Bc. Andrej Pazdera	Road Study I/64, Section Lietavská Lúčka – Rajce Teplice	K. Bačová
10.	Bc. Lucia Lezová	Traffic Solution for Centre Zone of Village of Chynorany	B. Bezák
11.	Bc. Boris Mlynarčík	Study of Interchanges of I/18 Urban Road in Levoča	B. Bezák
12.	Bc. Ján Mochorovský	Options for Solving Accident Site on Road Network	V. Kapusta
13.	Bc. Ján Mišák	Road Study II/502 Sv. JUR - Vinosady	M. Nemček

VII.2 Doctoral Theses

No.	Student's name	Title of doctoral work	Supervisor
1.	Imad Hamza Mohammad Hussain, M.Sc.	Using the Results of Weighing in Motion in Pavement Management Systems	K. Grüner I. Gschwendt

VII.3 Habilitation Theses

No.	Name	Title
1.	Ľudmila Bartošová	Evaluation of Reliability of Rigid Airport Pavements

VIII. OTHER ACTIVITIES

VIII.2 Commercial Activities for Firms and Institutions

1. K. Bačová - Consultation for Slovenská správa ciest (Slovak Road Administration)
2. K. Bačová - Construction of stone facade, retention and retail walls
3. K. Bačová - Compaction of bulk materials near service lines and residential buildings
4. K. Bačová - Evaluation of traffic situation and possible arrangements on Belinského Street
5. P. Rakšányi, et al.: - Comprehensive Transport Master Plan for the City of Zvolen: Scenarios and designs, realization of methodology, for: Municipality of Zvolen, 12/2004
6. Team KDOS: Workshop on development study for Airport of Bratislava, PSKD Reming, a.s., Bratislava
7. I. Gschwendt - Volume Changes in Hydraulically Bound Materials.
8. I. Gschwendt – Technical Specifications for Unbound and Hydraulically Bound Mixtures.
9. I. Gschwendt - D1 Motorway, Section Vrtižer - Hričovské Podhradie, Design of Flexible Pavement.
10. I. Gschwendt - D1 Motorway, Section Višňové – Dubná Skala, Design of Pavement in Tunnel.
11. I. Gschwendt - Construction of Pavements – Peugeot / Citroen PSA Trnava.
12. I. Gschwendt – STN EN 13286–47 Unbound and Hydraulically Bound Mixtures. Part 47: Test Method for the Determination of California Bearing Ratio.
13. I. Gschwendt – STN EN 13286–49 Unbound and Hydraulically Bound Mixtures. Part 49: Accelerated Swelling Test for Soil Treated by Lime and / or Hydraulic Binder.
14. I. Gschwendt – STN EN 13 863–1 Test Method for Determination of the Thickness of Concrete Pavement by Survey Method.
15. I. Gschwendt – STN EN 13 863–2 Test Method for the Determination of the Bond Between Two Layers.
16. K. Grünner - STN EN 12620 Aggregates for Concrete.
17. K. Grünner - STN EN 13043 Aggregates for Bituminous Mixtures and Surface Treatments for Roads, Airfields and Other Trafficked Areas
18. K. Grünner – STN EN 13055-1 Lightweight Aggregates. Part 1: Lightweight Aggregates for Concrete, Mortar and Grout
19. K. Grünner – STN EN 13139 Aggregates for Mortar
20. K. Grünner – STN EN 13242 Aggregates for Unbound and Hydraulically Bound Materials for Use in Civil Engineering Work and Road Construction
21. K. Grünner - EN 13383-1 Armourstone. Part 1: Specification
22. K. Grünner - STN EN 13383-2 Armourstone. Part 2: Test Methods
23. K. Grünner - STN EN 13450 Aggregates for Railway Ballast
24. K. Grünner - STN EN 1097-6/O1 Tests for Mechanical and Physical Properties of Aggregates. Part 6: Determination of Particle Density and Water Absorption. Amendment 1.

25. K. Grüner - STN 73 1210/Z4 Waterproof Concrete and Durable Concrete of Track Characteristics. Design, Production and Quality Control. Amendment 4.
26. K. Grüner - STN 73 2400/Z7 Making and Control of Concrete Structures. Amendment 7.
27. K. Grüner - STN 73 6123/Z1 Road Construction. Concrete Coverings. Amendment 1.
28. K. Grüner - STN EN 12274-4 Slurry Surfacing. Test Methods. Part 4: Determination of Cohesion of the Mix.
29. K. Grüner - STN EN 12274-5 Slurry Surfacing. Test Methods. Part 5: Determination of Wearing.
30. K. Grüner - STN EN 1744-3 Tests for Chemical Properties of Aggregates. Part 3: Preparation of Eluates by Leaching of Aggregates.
31. K. Grüner - STN EN 1367-5 Tests for Thermal and Weathering Properties of Aggregates. Part 5: Determination of Resistance to Thermal Shock.
32. K. Grüner - STN EN 1097-10 Tests for Mechanical and Physical Properties of Aggregates. Part 10: Determination of Water Suction Height.
33. K. Grüner - STN EN 1097-1/A1 Tests for Mechanical and Physical Properties of Aggregates. Part 1: Determination of the Resistance to Wear (micro-Deval). Amendment A1.
34. K. Grüner - STN EN 933-3/A1 Tests for Geometrical Properties of Aggregates. Part 3: Determination of Particle Shape – Flakiness Index. Amendment A1.
35. K. Grüner - STN EN 932-3/A1 Tests for General Properties of Aggregates. Part 3: Procedure and Terminology for Simplified Petrography Description. Amendment A1.
36. K. Grüner - STN EN 12272-3 Surface Dressing. Test Methods. Part 3: Determination of Binder Aggregate Adhesivity by Vialit Test Method.
37. B. Bezák – Comprehensive Master Transport Plan MC Bratislava – Vrakuňa.
38. B. Bezák - Technical Regulation (TP) Design Policy for Traffic Calming Elements for Through Road Stretches in Villages and Cities.

IX. PUBLICATIONS

IX.1 Journals

- [1] DOSTÁL, K., ŠTEVUŠKA, I.: The Safety of Car in Curve from the Point of View of Its Radius Point, In.: Silniční obzor, No. 10/2004, pp. 275 -278 (in Slovak)
- [2] BARTOŠOVÁ, E.: Cement Concrete Pavements on Roads and Motorways. In: Stavba, Vols. VII, 2004, No.1-2, pp. 50-52
- [3] TOMÁŠIKOVÁ, E.: Implementation of the European Pre-Standard of Design Parameters for Track Adjustments. In: Horizonty dopravy, XII. 2/2004, pp. 32-35
- [4] Grüner, K.: European Standards for Aggregates. In: Technical Journal of SZVK (Slovenské združenie výrobcov kameniva), No. 1/2004, pp. 24-34

IX.2. Books and Textbooks

- [1] GSCHWENDT, I., ET AL.: Pavements – Innovation, Strengthening and Reconstruction. Jaga Group Bratislava, 2004, ISBN 80-8076-005-5 (in Czech)
- [2] GSCHWENDT, I. – STAŇO, R.: Rehabilitation of Asphalt Pavements. In.: Stavebnícka ročenka 2004, Jaga Group Bratislava, 2004, pp. 147 – 152, ISBN 80-88905-87-7 (in Slovak)

- [3] BAČOVÁ, K.: Paved Surfaces of Trafficked Areas in Towns. In: Stavebnícka ročenka 2005, Jaga Group, Bratislava 2004, p. 3 (in Slovak)

IX.3 Conferences

- [1] BEZÁK, B.: Quality Measurement in Public Transport in the Slovak Republic. In: Proceedings of 10th World Conference on Transport Research, Istanbul, 4.-8.7.2004, p. 219
- [2] BEZÁK, B. - KOREN, Cs.: Three Countries – One Region (Drei Länder eine Region), Ring Lectures at Erfurt City Hall, November, 2004. 10 p. + pp Presentation (in German)
- [3] BEZÁK, B.: New Curriculum for Urban Civil Engineering. In: Proceedings of 9th Mobilita 04 International Scientific Conference. Bratislava, 6.-7.5.2004, pp. 423-426 (in English)
- [4] BEZÁK, B.: Road Transport and Sustainable Development In: Information on 22nd World Road Congress in Durban. SCS, Bratislava, 30.-31.3.2004 (in Slovak)
- [5] BEZÁK, B.: Performance of Through Roads in Rural Settlements. In: Proceedings of the 4th International Conference on Urban, Architectural and Technical Aspects of Countryside Renewal, ARC SvF STU Bratislava, December 2004, pp. 17- 27 (in Slovak)
- [6] BEZÁK, B.: Road Safety in Rural Settlements. In: 2nd Seminar on Road Safety on a Road Network. SSC, Vyhne, 2004, pp. 51-54 (in Slovak)
- [7] BAČOVÁ, K.-KOTYRA, M.: Pavement Structures on Extremely Loaded Roads in Urban Areas. In: 10th University of Hungarian Civil Engineering Board, Győr, 2004, p. 6 (in English)
- [8] BAČOVÁ, K.: Effect of Various Factors on Road Traffic Safety. In: 9th International conference on Road and Motorway – Intelligent Transport Systems. Bratislava, 2004, p. 4 (in Slovak)
- [9] GSCHWENDT, I.- BAČOVÁ, K.: Structure of Pavements in Urban Areas. In: 9th Mobilita 04 International Scientific Conference. Bratislava, 2004, pp. 75-78
- [10] GSCHWENDT, I.: Innovation of Pavements by Recycling Materials. In: Recycling of Asphalt Mixes and European Standards. Seminar, Stará Lesná 2004, pp 22-28 (in Slovak)
- [11] GSCHWENDT, I.: Concrete Pavements in Road Communications. In: Proceedings of Cement 2004 Conference, 11 – 12 October 2004, Stará Lesná, pp. 61 – 66 (in Slovak)
- [12] GSCHWENDT, I.: Road Technology - Pavements. In: Proceedings of 22nd World Road Congress, 30. – 31. March 2004 Bratislava, pp. 57 - 71 (in Slovak)
- [13] GSCHWENDT, I.: The Development of Pavement Structures. In: Proceedings of 9th Ivan Poliaček Seminar, 18 November 2004, Bratislava , pp. 6-12 (in Slovak)
- [14] ĎURIŠOVÁ, A.: The Load Transfer Effectiveness of Cement Concrete Slab. In: Proceedings of 6th Scientific Doctoral Conference, Division 2.3 Roads, Brno, February 2004, p. 9
- [15] BAČOVÁ, K.: Recycled Hydraulically Bound Mixtures and Their Use in Sub - Grade Layers In: 9th Ivan Poliaček Seminar on Innovation of Pavement Structures. Bratislava, 2004, pp. 97-102 (in Slovak)

- [16] BAČOVÁ, K.: Traffic Loads and Pavements in Tunnels In: 12th International Conference on Bridge and Tunnel Insulation. Podbanské, 2004, pp. 54-58 (in Slovak)
- [17] BAČOVÁ, K.: Use of Milled Materials in the Maintenance and Reconstruction of Roads. In: Q2004 Materials and Technology for Maintenance of Roads, Žilina, 2004, pp. 94-96 (in Slovak)
- [18] GRÜNNER, K. - DURMEKOVÁ, T., Wagner, P.: Possibilities for the Exploitation of Tunnel Muck as a Construction Material. In: Slovak Journal of Civil Engineering. SvF STU Bratislava, No. 2003/1, pp. 11-25
- [19] ROMANCOVÁ, I. - GRÜNNER, K.: European Standards for Testing Aggregates. In: Proceedings of Conference on Use of New Regulations after Slovakia's Entry into the European Union. Doprastav, Bratislava, February 2004, pp. 3-22
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