

DEPARTMENT OF TRANSPORT CONSTRUCTION AND TRAFFIC ENGINEERING

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I. STAFF

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Road Research Laboratory

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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

- Apparatus for the automatic measurement of pavement surface friction
- Integrating sound level meter – Bruel and Kjaer, Type 2231
- Nottingham asphalt tester (NAT)
- Speed radar TSA – RFI – 1
- Small Falling Weight Device
- Polaroid color multimedia device and CYCLOP accessories
- Portable overhead projector
- Portable overhead projector 3M, 400W - LCD
- Radar Counter and Classifier SR4

III. TEACHING

III.1 Graduate Study

Subject	Semester	Hours per Week		Lecturer
		Lectures	Seminars	
Regional Transport Systems	3	2	2	Bezák
Transport Construction	5	1	1	Tomášiková
Roads and Highways	5	4	2	Nemček
Road Construction	6	3	2	Bačová
Design of Transport Structures and Transportation Systems	6	2	2	Bartošová
Transport Construction	6	2	2	Bartošová
Atelier: Transport Construction and Systems	6	0	3	Bartošová
Practicum	6	2 weeks		Bartošová
Railways	7	2	2	Dostál
Modeling and Graphics in Road Construction	7	1	2	Tomášiková, Nemček
Transport Planning	7	2	2	Bezák
Roads in Urban Areas	8	2	2	Bezák
Regional Road Settlements	8	2	2	Nemček
Transport Construction	8	2	2	Kapusta
Airports	8	2	2	Bartošová
Technology of Civil Engineering Constructions	8	2	2	Bačová
Design and Construction of Roads	8	0	3	Nemček
Pavement Mechanics	9	2	2	Bačová
Road Intersections	9	2	2	Nemček
Selected Chapters from Airports	9	2	2	Bartošová
Diagnosis and Reconstruction of Transport Constructions	9	2	2	Bačová

Diagnosis of Transport Constructions	9	3-2	Báčová
Quality Control and Experiments	9	1-3	Báčová
Structures of Urban Transportation Infrastructures	9	2-2	Báčová
Study Excursion	9		Báčová
Transport Prognosis and Scenarios	9	2-2	Bezák
Special Seminar	10	0 - 5	Báčová
Reconstruction and Innovation of Roads	10	2-2	Báčová
Quality Control and Experiments	10	2-2	Báčová
Urban Planning	10	2 - 1	Bezák
Selected Topics on Roads and Motorways	10	3 - 2	Báčová, Nemček
Diploma Thesis	10	5 weeks	Báčová
Modeling Transportation Systems	10	2-2	Nemček
Transport Management	10	2 - 1	Bezák
Selected Chapters from Road and Highways	10	2-2	Báčová, Nemček
Selected Chapters from Transport Constructions	10	2-2	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. Accident Reduction on Road's Through Traffic – Engineering Construction Arrangement. APVV 06K11, Contract N°: SK-CZ-08506 (2006-2007, Bezák)
2. The Environmental Capacity Parameters of Transport Infrastructures. Contract N°: 1/3314/06 (2006-2008, Bezák)
3. Using recycling materials in asphalt mixtures in order to reduce quantity of waste and improvement of the environment. VEGA, Contract N°: 1/3318/06 (2006-2008, Grüner)
4. SNOWBALL, 6th FP Demonstration, taking-up and further dissemination of sustainable integrated planning methods in European cities. Contract N°: EIE/105/SI2.419575 (2006-2008, Goudappel Coffeng BV, NL - coordinator (Rakšányi)
5. ECOCITY - Sustainable Urban Development Supported with Appropriate Transport Structure, Dissemination of Results. Contract N°: EVK-CT-2001-00056/1 (Rakšányi)
6. SNOWBALL, Integrated planning methods for saving the environment, energy in transport and policy in European cities. MŠ SR Grant, (Rakšányi)
7. Track Constructions for Corridor Lines. VEGA, Contract N°: VEGA 1/1144 (2004-2006, Tomášiková)

VI. COOPERATION

VI.1 Cooperation in Slovakia

1. ALFA 04, a.c., Bratislava
2. Atelier Olympia, Land Use and Architecture Bureau Petro, Žolnayová, Bratislava
3. AUREX s.r.o., Bratislava
4. Basler and Hofmann Slovakia, s.r.o., Bratislava
5. Bitunova s.r.o., Zvolen
6. Self-Government of Bratislava Region
7. BTS Airport Bratislava
8. CMK s.r.o., Zvolen
9. Doprastav, a.c., Bratislava
10. Dopravoprojekt, a.c., Bratislava
11. Dopravia, a.s., Bratislava
12. Engineering Structures Košice
13. Eurogabion, s.r.o., Brezová pod Bradlom
14. Geoconsult, s.r.o., Bratislava
15. Land Use Planning Bureau, E.I.A.
16. MDPaT
17. Municipal Offices of Bratislava, Banská Bystrica, Prievidza Trnava, Piešťany, Chynorany, Zvolen, Bratislava, Myjava, Levice, Martin
18. PSKD, Reming Consult a.s., Bratislava
19. Research Institute of Engineering Structures - Roads s.r.o., Bratislava
20. Road Engineering s.r.o., Nitra, Košice, Prešov
21. Skanska, a.c., Bratislava
22. Strabag, a.c., Bratislava
23. Slovak Road Directorate
24. Slovasfalt s.r.o., Bratislava
25. SUTN
26. United Industries, a.s., Bratislava/Trnava
27. ZMOS – Association of Slovak Towns and Communities

VI.2 International Cooperation

New SNOWBALL Project main partners:

1. Ayuntamiento de Donostia-San Sebastián, Spain
2. Ayuntamiento de San Fernando de Henares, Spain
3. City of Stockholm, GFK, Sweden
4. Commune di Verona, Italy
5. Goudappel Coffeng, BV, The Netherlands
6. GEA '21 - Grupo de Estudios y Alternativas 21 S.L., Madrid, Spain
7. Gemeente Hilversum – Dienst Stad, NL
8. JEA – Architektur, Tuebingen, Germany
9. John Thompson and Partners Limited, London, UK
10. NET Engineering SpA, Monselice, Italy
11. Stadt Ludwigsburg, Germany
12. Senter/Novem - Nederlandse Organisatie voor duurzaamheid en innovatie, Utrecht, NL

Other International Cooperation

1. Aristotle University of Thessaloniki, Greece
2. BOKU – University for Bodenkultur, Institute for Transport Structures, Vienna, Austria
3. BP Hamburg, Germany
4. 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
5. CEN/TC 256, Belgium
6. CFF Mönchengladbach, Germany
7. CKAIT – The Czech Association of Civil Engineers and Technicians, Karlovy Vary
8. DASL – Deutsche Akademie für Städtebau und Landesplanung, Gruppe Verkehr und Umwelt, Niedersachsen-Bremen, Berlin, member-correspondent since 1996
9. Federal Environmental Ministry, Vienna, Austria
10. Federal Ministry of Transport, Bonn, Germany
11. German Academy for Town and Country Planning, Germany
12. Győr Statverwaltung, Győr, Hungary
13. Hungarian Academy of Science Regional Research Center, Győr, Hungary
14. IFHP – International Federation for Housing and Planning, The Hague, NL
15. Industry Viertel – Vienna, Austria
16. Institute for Planning and the Environment, Vienna, Austria
17. LCPC Paris, Nantes, France
18. NAST- consulting GmbH fuer Verkeh und Umwelt, Nadler, F., Vienna, Austria
19. Nadler, F., Vienna, Austria
20. OECD, Paris, France
21. PEBA Berlin, Germany
22. Provincial capital of Hannover, Germany
23. Salzburger Landesregierung, Salzburg, Austria
24. Schnull-Haller, Ingenieurbureau, Bureau fuer Stadt-verkehrsplanung, Hannover, Germany
25. Strassenentwurf, Hannover, Germany NAST- consulting GmbH fuer Verkeh und Umwelt,
26. Technical University of the Rhineland – Westphalia, Aachen, Germany
27. TPA Vienna, Austria
28. TRAFICO - Verkehrsplanung, Vienna, Austria
29. West Transdanubian Regional Development Agency, Győr, Hungary

VI.2.1 Visitors to the Department

Name	Organisation	Country	Stay
Marián Krajčovič	VŠB Ostrava	Czech Republic	4 days
Marek Mikola	VŠB Ostrava	Czech Republic	2 days
Eva Ožanová	VŠB Ostrava	Czech Republic	2 days
Jakub Svrček	VŠB Ostrava	Czech Republic	2 days
André de Stefano	FHS Cologne	Germany	10 days
Carsten Koch	FHS Cologne	Germany	4 days
Hé Huismans	Senter Novem	Holland	1 day

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

1.	Bezák, B.: VŠB Ostrava, Czech Republic	3 days
2.	Bezák, B.: TFH Cologne, Germany	3.5 days
3.	Rakšányi, P.: SNOWBALL, Kick-off Workshop, Hilversum,	1 day
4.	Ondrovič, M.: SNOWBALL, Kick-off Workshop, Hilversum,	1 day
5.	Bezák, B.: VŠB Ostrava, Czech Republic	2 days
6.	Bezák, B.: SIC Győr, Hungary	3 days
7.	Los, P.: SIC Győr, Hungary	1 day
8.	Báčová, K.: VUT – SvF Brno, Czech Republic	1 day
9.	Ďurišová, A.: VUT – SvF Brno, Czech Republic	1 day
10.	Gábor, P.: VUT – SvF Brno, Czech Republic	1 day
11.	Bezák, B.: VUT – SvF Brno, Czech Republic	1 day
12.	Bezák, B.: VŠB Ostrava, Czech Republic	4 days
13.	Bezák, B.: PIARC, Budapest, Hungary	4 days
14.	Bartošová – ČR VUT FAST Brno	1 day
15.	Nemček, M.: International Road Expo, Prague, Czech Republic	1 day
16.	Ondrovič, M.: SNOWBALL city meeting, Stockholm, Sweden	4 days
17.	Rakšányi, P.: SNOWBALL city meeting, Stockholm, Sweden	4 days
18.	Bezák, B.: SIC Győr, Hungary	7 days
19.	Dostál, K.: VŠB Ostrava, Czech Republic	2 days
20.	Bc. Král: Student Workshop, SIC Győr, Hungary	7 days
21.	Bc. Neumann: Student Workshop, SIC Győr, Hungary	7 days
22.	Bezák, B.: TU Vienna, Austria	1 day
23.	Rakšányi, P.: SNOWBALL Implementation, city meeting, San Sebastian, Spain	7 days
24.	Ondrovič, M.: SNOWBALL Implementation, city meeting, Donostia, Spain	7 days
25.	Bezák, B.: Directorate of Public Roads + PIARC, Bergen, Norway	5 days
26.	Bezák, B.: University of Sarajevo, Bosnia and Herzegovina	4 days
27.	Bezák, B.: TU Vienna, Austria	1 day
28.	Rakšányi, P.: Ulm, Germany	4 days
29.	Bezák, B.: Palacký University, Faculty of Science, Czech Republic	4 days
30.	Tomašiková, E.: CTU in Prague, Faculty of Transportation Sciences, Czech Republic	3 days
31.	Ďurišová, A.: Concrete Pavement Conference, Chlumec nad Cidlinou, Czech Republic	2 days
32.	Bartošová, L.: Concrete Pavement Conference, Chlumec nad Cidlinou, Czech Republic	2 days
33.	Rakšányi, P.: Bilateral joint education project, VŠB Ostrava, Czech Republic	3 days
34.	Ondrovič, M.: Bilateral joint education project, VŠB Ostrava, Czech Republic	3 days
35.	Bezák, B.: Bilateral joint education project, VŠB Ostrava, Czech Republic	3 days
36.	Bezák, B.: TU Vienna, Austria	0.5 days

VI.2.3 Memberships in International Associations

1. Bezák, B.: Member of the PIARC - C 2.3 Technical Committee on Urban Areas and Integrated Transport, Paris, France
2. Bezák, B.: Member of the Southeast European Transport Research Forum, SETREF, Thessaloniki, Greece
3. Bezák, B.: Member of the Editorial Board -Transport Review, London, UK

4. Gschwendt, I.: Member of the PIARC – C7/8 – World Road Association (Road Pavements)
5. Gschwendt, I.: Member of the Editorial Board – Silniční obzor, Prague
6. Gschwendt, I.: The American Bibliographical Institute: Research Board of Advisors
7. Gschwendt, I.: Czech Association for Mechanics, ČSM Prague, Czech Republic
8. Rakšányi, P.: CEI Vienna - Central European Initiative – Subgroup for Transport and the Environment, Austrian Federal Ministry of Agriculture, Forestry, the Environment and Water Management, Vienna
9. Rakšányi, P.: DASL (German Academy of Spatial and Landscape Planning, Committee for Transport and the Environment), Landesgruppe Niedersachsen-Bremen, Hannover, Member-Correspondent
10. Rakšányi, P.: IFHP International Federation for Housing and Planning, The Hague, Holland, Member-delegate for STU, Faculty of Civil Engineering

VII. THESES

VII.1 Graduate Theses

No.	Student's name	Title	Supervisor
1.	Bc.Peter Vanek	Construction Solution for Concrete Pavements	I. Gschwendt
2.	Bc.Marián Kusenda	Usage of Recycled Mixtures in a Road Base Bound with Asphalt Binder	K.Bačová
3.	Bc.Richard Čížmár	Railway Station in Dubnica nad Váhom: Reconstruction of a Railhead from the Direction of Žilina.	K. Dostál
4.	Bc.Radomír Svitok	Highway Study D3, Section: Kysucké nové mesto – Svrčinovec	K. Bačová
5.	Bc.Oliver Bučko	Positioning Study of Airport in Trnava Region.	Ľ. Bartošová
6.	Bc. Katarína Tomanová	Road Accident Reduction, Traffic Safety	V.Kapusta
7.	Bc.Martin Zeleník	Reconstruction of Through – road II/507 in Municipality of Dolná Streda.	B. Bezák

VII.2 Doctoral Theses

No.	Student's name	Title of doctoral work	Supervisor
1.	Muška, J.	Minimalisation of Parking Demands	Bezák, B.
2.	Ondrovič, M.	Accessible Parameters of a Transport Infrastructure	Bezák, B.

VIII. OTHER ACTIVITIES

VIII.1 Commercial Activities for Firms and Institutions

1. Bačová, K.: Cross Section of Roads in Tunnels, Traffic Flow Volume Study for NDS a.s.,
2. Bačová, K.: Construction of Airport Concrete Pavement – Technology Standard,

3. Bačová, K.: Solution of two standardization works STN EN – Adoption of EN by translation,
EN 14227-11 Hydraulically bound mixtures – Specification – Part 11: Soil treated by lime,
EN 14227-10 Hydraulically bound mixtures – Specification – Part 10: Soil treated by cement,
4. Bartošová, Ľ.: Evaluation of Pavement of Bratislava Airport Runway 04-22 Based on a Visual Condition Survey,
5. Bartošová, Ľ.: Evaluation of Pavement Condition of Bratislava Airport Runway 13-31 Based on a Visual Condition Survey,
6. Bartošová, Ľ.: Visual Condition Survey on PD F Taxiway,
7. Bartošová, Ľ.: Visual Condition Survey and Evaluation of Surface Stage on Runway 04-22,
8. Bartošová, Ľ.: Evaluation of Surface Pavement Condition on Runway 13-31,
9. Bartošová, Ľ.: Inventory Control of Pavement Surface Defect on Taxiways A, C, D and F,
10. Grünner, K.: Solution of Four Standardization Works STN EN – Adoption of EN by translation,
EN 13108-6: 2005 Bituminous Mixtures. Material specifications. Part 6: Mastic asphalt,
EN 13108-4: 2005 Bituminous Mixtures. Material specifications. Part 4: Hot rolled asphalt,
EN 13108-3: 2005 Bituminous Mixtures. Material specifications. Part 3: Soft Asphalt,
EN 12274-7: 2005 Slurry Surfacing. Test methods. Part 7: Shaking abrasion test,
11. Grünner, K.: Appraisal of aggregate samples from the point of view of wear, TSÚS,
12. Grünner, K.: Solution of one standardization work STN EN – adoption of EN by translation
EN 1097-2: 1998/A1 Tests for mechanical and physical properties of aggregates. Part 2: Methods for the determination of resistance to fragmentation. Amendment 1, Work
13. Grünner, K.: Solution of two standardization works STN EN – adoption of EN by translation:
EN 1744-5: 2006 Tests for chemical properties of aggregates. Part 5: Determination of acid soluble chloride salts,
EN 1744-6: 2006 Tests for chemical properties of aggregates. Part 6: Determination of the effect of recycled aggregate extracts on the initial setting time of cement,
14. Gschwendt, I.: Evaluation of Bearing Capacity of Pavements on Runways 13-31 and 04-22,
15. Rakšányi, P., et al.: DSP Moravia-Danube Cycling Path Promenade Part, STaRZ Bratislava,
16. Rakšányi, P., et al.: Comprehensive Transport Master Plan for Levice, II. - design, Municipality of Levice, 12/2006,
17. Rakšányi, P., et al.: Verification Study Levice – Ring road for Rybníky V. Residential Zone, Levice, 9/2006,
18. Rakšányi, P., et al.: DIP – Traffic Engineering Data for DUŠ Myjava, Road Bypasses II/581 and II/499, AUREX, s.r.o. Bratislava, 12/2006,
19. Rakšányi, P., et al.: Martin – Technical Data for Snowball Project: Traffic Counting on City Centre Ring road, UHA of town of Martin,
20. Rakšányi, P., et al.: Preliminary Transport Study - Zvolen Masarykova, DIP part and Traffic Survey, Municipality of Martin.

VIII.2 Conferences and Workshops Organised

1. Proceedings of 11th Ivan Poliaček Seminar: Permanent Deformation of Asphalt Pavement, Bratislava, 2006

VIII.3 Special Lectures

- [1] BAČOVÁ, K.: Road Pavements. In: Sustainable Road and City Traffic Engineering. Continuing Education in Civil Engineering and Land Surveyors, ISBN 80-227-2546-3, ESF SvF, Bratislava, 2006, on CD
- [2] BARTOŠOVÁ, L.: Structure of a Pavement on Highways and Traffic Area. In: Sustainable Road and City Traffic Engineering. Continuing Education in Civil Engineering and Land Surveyors, ISBN 80-227-2546-3, ESF SvF, Bratislava, 2006, on CD
- [3] BEZÁK, B.: Principles of Transportation Planning. In: Sustainable Road and City Traffic Engineering. Continuing Education in Civil Engineering and Land Surveyors, ISBN 80-227-2546-3, ESF SvF, Bratislava, 2006, on CD
- [4] BEZÁK, B.: Transport Policy. In: Sustainable Road and City Traffic Engineering. Continuing Education in Civil Engineering and Land Surveyors, ISBN 80-227-2546-3, ESF SvF, Bratislava, 2006, on CD
- [5] BEZÁK, B.: Typology of Traffic Calming Elements. In: Sustainable Road and City Traffic Engineering. Continuing Education in Civil Engineering and Land Surveyors, ISBN 80-227-2546-3, ESF SvF, Bratislava, 2006, on CD
- [6] GRÜNNER, K.: Legislation in Relation to Pavement Construction and Reconstruction. In: Sustainable Road and City Traffic Engineering. Continuing Education in Civil Engineering and Land Surveyors. ISBN 80-227-2546-3, ESF SvF, Bratislava, 2006, on CD
- [7] GSCHWENDT, I.: Paving on Transport Spaces. In: Sustainable Road and City Traffic Engineering. Continuing Education in Civil Engineering and Land Surveyors, ISBN 80-227-2546-3, ESF SvF, Bratislava, 2006, on CD
- [8] KAPUSTA, V. - ONDROVIČ, M.: Traffic Safety and the Safety of Handicapped People. In: Sustainable Road and City Traffic Engineering. Continuing Education in Civil Engineering and Land Surveyors, ISBN 80-227-2546-3, ESF SvF, Bratislava, 2006, on CD
- [9] ĽOS, P.: Transport Surveying. In: Sustainable Road and City Traffic Engineering. Continuing Education in Civil Engineering and Land Surveyors, ISBN 80-227-2546-3, ESF SvF, Bratislava, 2006, on CD
- [10] RAKŠÁNYI, P.: Comprehensive Transport Master Plan. In: Sustainable Road and City Traffic Engineering. Continuing Education in Civil Engineering and Land Surveyors, ISBN 80-227-2546-3, ESF SvF, Bratislava, 2006, on CD

VIII.4 Others

- [1] RAKŠÁNYI, P. : Review of Grant Project APVV-99-022905 of Development Concept for Freight Transport Centers, Research Centre of Žilina, Opening Remarks, electronic, 01/2006
- [2] RAKŠÁNYI, P.: Review of Grant Project 6th FP: FUTURE – The Future of Urban Research in Europe, processor: doc. Vítková, L., FA STU in Bratislava, 01/2006

- [3] RAKŠÁNYI, P.: Objector to Doctoral Thesis of Ing.Ondrovič, SvF STU, 05/2006, member of SOK
- [4] RAKŠÁNYI, P., et al.: Realised Methodics: Comprehensive transport master plan in Scenarios for Comprehensive Transport Master Plan, In: Comprehensive Transport Master Plan of the Town of Levice, confirmed by: Opinion with Respect to Scenarios, Municipality of Levice, No.10715/2006-S

IX. PUBLICATIONS

IX.1 Journals

- [1] BAČOVÁ, K. – GÁBOR, P.: Reuse of Pavement Materials. In.: Stavba, ISSN 1335 – 5406, MF MEDIA s.r.o., Nos. 1-2, 2006, pp. 38 - 41
- [2] DOSTÁL, K.: The Development of the Railway Infrastructure in the Bratislava Region. In: Stavba, ISSN 1335-5406, MF MEDIA s.r.o., Vol. 9, No. 1-2, 2006, pp. 31-33
- [3] GRÜNNER, K.: Utilisation of WIM Systems for Pavement Usages. In: Silniční obzor, ISSN 0322-7154, Vol. 67, 2006, No. 8, 2006, pp. 217-225
- [4] GRÜNNER, K.: Weight in Motion - WIM, In: Silniční obzor. ISSN 0322-7154, Vol. 67, 2006, No. 7, 2006, pp. 180-188
- [5] GSCHWENDT, I.: Construction of Yandu-Al Jubil Highway in Saudi Arabia. In: Silniční obzor, ISSN 0322-7154, Vol. 67, 2006, No. 8, pp. 225-227
- [6] GSCHWENDT, I.: Motorway Tunnel Pavements. In: Monthly Revue of Building and Architecture, ISSN 1335-5406, Vol. 9, 2006, Nos. 1-2, pp. 45-47
- [7] NEMČEK, M.: Evaluation of Traffic Effects on a Road's Surroundings. In.: Pozemné komunikácie a dráhy, ISSN 1336-7501, Vol. 2, 2006, No. 2, pp. 65-70
- [8] RAKŠÁNYI, P.: SNOWBALL Project - Integrated Planning in Cities. In: Real Estate and Housing, ISSN 1336-944X, Vol. 1, No. 2, pp. 77-81

IX.2 Books and Textbooks

- [1] BEZÁK, B.: Traffic Calming on Through Roads, STU Bratislava 2006, ISBN 80-227-2355-X, 117 pp.
- [2] GRÜNNER, K.: Bitumen in Road Building. History and Today, STU Bratislava 2006, ISBN 80-227-2483-1, 132 pp.

IX.3 Conferences

- [11] BAČOVÁ, K.: Pavement Structures at Bus Stops Resistant to Permanent Deformation. In: Proceedings of Conference on Permanent Deformation of Asphalt Pavements, ISBN: 80-89275-02-8, Bratislava, 2006, pp. 86-90
- [12] BAČOVÁ, K.: Laboratory Verification of Use of Recycled Mixtures in Pavements. In: Proceedings of Conference on Asphalt Pavements for Low Loaded Routes, Košice, 2006, pp. 65-70

- [13] BAČOVÁ, K. – BAČA, L. – ČECHOVIČ, M.: Modern Construction of Structures. In: Proceedings of Geotechnic 2006 Conference, ISBN 8-248-1124-3, Košice, 2006, pp.71-75
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IX. 4 Posters

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