

DEPARTMENT OF TRANSPORT CONSTRUCTION AND TRAFFIC ENGINEERING

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I. STAFF

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Road Research Laboratory

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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	
Land Ecology, Town and Land Use Planning	3	2	2	Bezák
Infrastructure of Urban Areas	3	2	2	Bezák
Transport Construction	5	1	1	Tomášiková
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	Gschwendt
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	Tomko
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 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
Transport Urban 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. Research into Factors Affecting the Volume and Quality of Railway Station Operations in Trains Shunting Goods (2001-2003, 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 Through Appropriate Structures for Sustainable Transport, Participants: SvF, FA, STU, Pridos, MsU Trnava, 2nd Year – part: Local Ecocity Master Plan of Trnava, countries involved: Austria, Slovakia, Finland, Spain, Germany, Hungary, Italy, England, 2003 (Rakšányi, Slovak Head of ECOCITY Consortium), published at www.ecocityprojects.net
6. Project 5 RP PORTAL GRD 1 – 1999-11024 (Promotion Of Results in Transport Research and Learning) (2000-2003, B. Bezák)

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
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

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 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 Muenchengladbach, 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. Gyor 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 fuer Städtebau und Landesplanung, Gruppe Verkehr und Umwelt, Niedersachsen-Bremen, Berlin, member-correspondent since 1996
21. TRAFICO - Verkehrsplanung, Vienna, Austria
22. CKAIT – The Czech Association of Civil Engineers and Technicians, Karlovy Vary

VI.2.1 Visitors to the Department

Name	Organisation	Country	Stay
Rüdiger Kùchler	FH Köln	Germany	1 day
Winfried Reinhard	FH Köln	Germany	1day
Larsten Koch	FH Köln	Germany	1day
Manfred von Schaidt	FH Köln	Germany	1day
Franz Skala	WirtschaftsUniversitaet Vienna	Austria	2x2 day
Rolf Messerschmidt	EBOEK, Tubingen	Germany	3 day
Albert Jansen	NOVEM, Ministry of the Economy	The Netherlands	2x1 week
Maria Hakansson	UTL, Lulea, diploma student	Sweden	2 Months

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

1. Rakšányi, P.: ECOCITY, Győr, 1 x 1 day
2. Rakšányi, P.: DALŠ, Kiel, 1 x 3 days
3. Rakšányi, P.: Workshop + ECOCITY, Madrid, 1 x 1 day
4. Rakšányi, P.: Conference, Prague, 1 x 3 days
5. Rakšányi, P.: ECOCITY, Stuttgart, 1 x 3 days
6. Rakšányi, P.: Conference, Vienna, 1 x 1 day
7. Gschwendt, I.: FSV, Vienna, 1 x 1 day
8. Gschwendt, I.: Exposition, Prague, 1 x 1 day
9. Gschwendt, I.: Meeting, Mikulov, 1 x 2 days
10. Gschwendt, I.: Conference, Vienna, 1 x 1 day
11. Gschwendt, I.: Conference, Brno, 1 x 1 day
12. Gschwendt, I.: Thesis Examination, Prague, 1 x 1 day
13. Gschwendt, I.: Workshop, Vienna, 1 x 2 days
14. Bezák, B.: PORTAL, Prague, 1 x 3 days
15. Bezák, B.: PORTAL, Prague, 1 x 2 days
16. Bezák, B.: PORTAL, Vienna, 1 x 1 day
17. Bezák, B.: Symposium, St. Pölten, 1 x 1 day
18. Bezák, B.: FGM, Graz, 1 x 2 days
19. Bezák, B.: PORTAL Conference, Braunwald, 1 x 4 days
20. Nemček, M.: Workshop on "The City and Traffic", Cracow, 1 x 8 days
21. Tomko, J.: Conference, Karlove Vary, 1 x 3 days
22. Tomašiková, E.: Conference, Prague, 1 x 2 days
23. Staňo, R.: Workshop, Vienna, 1 x 2 days

VII. THESES

VII.1 Graduate Theses

No.	Student's name	Title	Supervisor
1.	Bc. Radovan Zeliska	Airport Pavement Bearing Assessment	L. Bartošová
2.	Bc. Michal Mikuš	Composite Roads	I. Gschwendt
3.	Bc. Martin Nediela	Pavement Constructions of Bus Stops	K. Bačová
4.	Bc. Pavol Sebök	Constructional and Technical Assessment of the Parallel Runway, Location 13-31, at the Bratislava Airport	L. Bartošová
5.	Bc. Dušan Hestera	Interconnection of Roads E 571 and I/76 Hronský Beňadik – Štúrovo-Border SR/MR Study	K. Bačová
6.	Bc. Miroslav Fogel	Construction Degradation of an Airport Runway Pavement	I. Gschwendt
7.	Bc. Peter Ľos	Interchange at Line A of the Main Public Transport System	B. Bezák
8.	Bc. Pavol Kovalčík	Determination of a Design Speed on the Basis of Area Conditions	M. Nemček
9.	Peter Mujkoš	Lednické Rovne – Púchov, Track Connection	K. Dostál

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| 10. | Bc. Marián Kováčik | Technical Study of Highway R2 at the Nováky – Hradište Section | V. Kapusta |
| 11. | Bc. Martin Šafárik | Utilization of Milled Asphalt Mixes for the Overlay of Pavements | K. Grüner |
| 12. | Bc. Martin Milošovič | Design of an Airport Pavement for a Parallel Runway at the Bratislava M.R.Š. Airport | Ľ. Bartošová |
| 13. | Bc. Ľuboslav Nagy | Study of the Highway Bypass at Trnava | M. Nemček |
| 14. | Bc. Marek Goláb | Technical Study of the D1 Highway at the Jánovce – Jablonov Section | V. Kapusta |
| 11. | Bc. Marcel Štirbl | Study of Road III/52019, Oravice - Zuberec Routing | V. Kapusta |
| 12. | Bc. Marianna Fronková | Bratislava – Nitra, Track Connection, Alternative Solutions | K. Dostál |

VII.2 Doctoral Theses

- | No. | Student's name | Title of doctoral work | Supervisor |
|-----|--------------------|---|------------|
| 1. | Ing. Martin Gregaň | Verification of Selected Through Road Traffic Patterns from the Point of View of Vehicle Speeds | B. Bezák |

VIII. OTHER ACTIVITIES

VIII.2 Commercial Activities for Firms and Institutions

1. E. Tomášiková - STN EN 12561-2 Railway Applications – Tank Wagons – Part 2: Bottom Emptying Devices for Liquid Products, Including Vapour Return
2. E. Tomášiková - STN EN 12561-3 Railway Applications – Tank Wagons – Part 3: Bottom Filling and Emptying Devices for Gases Liquefied under Pressure
3. E. Tomášiková - STN EN 12561-4 Railway Applications – Tank Wagons – Part 4: Top Devices for Top Emptying and Filling of Liquid Products
4. E. Tomášiková - STN EN 12561-5 Railway Applications – Tank Wagons – Filling of Liquid Products and Top Filling of Liquid Products
5. E. Tomášiková - STN EN 12561-6 Railway Applications – Tank Wagons – Part 6: Manholes
6. E. Tomášiková - STN EN 13145 Railway Applications. Track. Wooden Sleepers and Barriers
7. E. Tomášiková - STN EN 13481-1 Railway Applications. Track. Performance Requirements for Fastening Systems. Part 1: Definitions
8. E. Tomášiková - STN EN 13129-1 Railway Applications. Air Conditioning for Main Line Rolling Stock. Part 1: Comfort Parameters
9. E. Tomášiková - STN EN 13272 Railway Applications. Electrical Lighting for Rolling Stock in Public Transport Systems
10. P. Rakšányi, et al. – Comprehensive Transport Master Plan for the City of Zvolen, Surveys and Analyses, Municipality of Zvolen, Rakšányi, P., et al.
11. B. Bezák, P. Rakšányi, M. Ondrovič - Point of View on the Development of the Public Transport System of Bratislava, Expert Opinion, Municipality of Bratislava, , p. 20

12. I. Števuška – The Assessment of Longitudinal and Friction Coefficients - CFL (Coefficient of Longitudinal Friction - CFL) at Speeds of 40, 60, 80, on the Air Field of Bratislava-Ivanka Spraid by Preparation EKOFOB at Quantity $0,2 \text{ kg.m}^{-2}$
13. I. Števuška – The Effect of PANBEXIL S Preparation Material for Friction Braking (Measured by Locked Wheels) on Cement Concrete of Runways and Their Areas
14. I. Števuška – Assessment of the Roughness of a Road Surface from the of View of the Longitudinal Friction on Highway D 61 at the Mierová-Bajkalská Point Street in Bratislava at km 10.372 – 12.050
15. I. Števuška – The Effect of PANBEXIL Preparation Material on the Braking Force Coefficient (Measured by Locked Wheels) at Speeds of 40, 60 and 80 km.h^{-1} on Concrete Cement Areas
16. I. Gschwendt - Technical Specification for Asphalt Pavements: Strengthening Asphalt Pavements
17. I. Gschwendt - Degradation of the Pavements on Bratislava Airport Runways
18. I. Gschwendt - Improving Subgrade and Base Layer Designs – Cooperation on a Research Task, Technical Specifications
19. I. Gschwendt – Diagnosis and Estimation of Pavement Classification Numbers of Pavements at Bratislava Airport
20. I. Gschwendt - Diagnosis and Evaluation of Asphalt Pavement on Test Section of D61 Motorway (Mierová – Senecká)
21. I. Gschwendt - EN Adoption and Translation: EN 13 285, EN 13 286-1, EN 13 286-3, EN 13 286-4, EN 13 286 –5, EN 13 286-40, EN 13 286-42, EN 13 286-43
22. R. Staňo - Inventorying Defects and Evaluating Conditions of Airport Runways in Bratislava
23. R. Staňo - Analysis of Progressive Information in Technologies for Reusing Road Building Materials
24. R. Staňo - Probative Testing of Subgrade Soils at PSA PEUGEOT/CITROEN Factory Building in Trnava
25. R. Staňo - Control Measurement during Construction of Banks and Subgrade Modifications at PSA PEUGEOT/CITROEN Factory Building in Trnava

IX. PUBLICATIONS

IX.1 Journals

- [1] TOMÁŠIKOVÁ, E.: Translation of European Standards and the Consequences, Normalizácia, No. 2/2003, pp. 24-25
- [2] RAKŠÁNYI, P.: EcoCity – A Model of the 3d Millennium, In: Projekt 02/03, Review of Slovak Architecture, Bratislava, 2003, pp. 14-15
- [3] RAKŠÁNYI, P.: Public Spaces in the ECOCITY of Trnava, In: Projekt a stavba, Vols. 5-6/2003, Bratislava, pp. 8-9
- [4] BAČOVÁ, K.: Defects and Repairs of Pavements. In: Stavba, No. 4/2003, pp. 40 – 41 (in Slovak)
- [5] BARTOŠOVÁ, Ľ.: Stresses from Loading on Rigid Pavement Courses. In: Slovak Journal of Civil Engineering, No.1/2003, pp. 35 – 38
- [6] BARTOŠOVÁ, Ľ.: Stress Analysis of a Rigid Airport Pavement. In: Projekt a Stavba, No. 7/8, 2003, pp. 12 – 14 (in Slovak)

- [7] BARTOŠOVÁ, Ľ.: Airports – Remarkable Transport Infrastructure Constructions. In: Stavba, No. 4, 2003, pp. 30 – 33 (in Slovak)
- [8] DOSTÁL, K.: Track Modernization of Žilina – Krásno nad Kysucou,. In: Projekt a stavba, No. 1/2003, pp. 22 – 23 (in Slovak)
- [9] GSCHWENDT, I.: Road Pavements. In: Architektúra, Stavby, Bývanie, No. 1/2003
- [10] GSCHWENDT, I., LOVEČEK, Z.: Technology and Mechanization of Recycling Materials in Road Construction. In: Stavebnícka Ročenka 2003, p. 59

IX.2. Books and Textbooks

- [1] GSCHWENDT, I., BAČOVÁ, K., GRÜNNER, K., STAŇO, R.: Quality of Roads. Road Material Tests. Chapter 2: Aggregates, pp. 43 – 64, Chapter 3: Bituminous Binders, pp. 65 – 89. Chapter 8: Asphalt Mixtures, pp. 154 – 193, 2003
- [2] BAČOVÁ, K. - BARTOŠOVÁ, Ľ. - NEMČEK, M.: Roads and Motorways: Exercise Directions I. 1st revised edition, 132 pp. STU Bratislava, 2003
- [3] DOSTÁL, K.: Railways, Geometric Situation of Tracks, Track Construction and Switches, 109 pp. ES STU Bratislava 2003
- [4] RAKŠÁNYI, P., et al: Planning Sustainable Settlements, published by STU, Bratislava, 2003, 111 pp. ISBN 80-227-1941-2 (in English)
- [5] Benchmarking and Quality Management in Public Transport (in Slovak: Bezak B., et al.) - KT1a - in: Project 5. FP EÚ PORTAL 2003
- [6] Regulatory Frameworks and Legislation in Public Transport (in Slovak: Bezak B., et al.) - KT1b - in: Project 5. FP EÚ PORTAL 2003
- [7] Integrated Transport Chains (in Slovak: Bezak B., et al.) - KT1c - in: Project 5. FP EÚ PORTAL 2003
- [8] Urban Traffic Management and Restraint (in Slovak: Bezak B., et al.) – KT2 - in: Project 5. FP EÚ PORTAL 2003
- [9] Safety and Accident Reduction (in Slovak: Bezak B., et al.) – KT3 - in: Project 5. FP EÚ PORTAL 2003
- [10] Modelling and Data Analysis (in Slovak: Bezak B., et al.) – KT4 - in: Project 5. FP EÚ PORTAL 2003
- [11] The Environment, Energy and Transport (in Slovak: Bezak B., et al.) – KT5- in : Project 5. FP EÚ PORTAL 2003
- [12] Pricing (in Slovak: Bezak B., et al.) – KT6 - In: Project 5. FP EÚ PORTAL 2003
- [13] Mobility Management and Travel Awareness (in Slovak: Bezak B., et al.) – KT7 - In: Project 5. FP EÚ PORTAL 2003
- [14] Urban Freight Transport and Municipal Logistics (in Slovak: Bezak B., et al.) – KT8 - In: Project 5. FP EÚ PORTAL 2003
- [15] Transport and Land Use (in Slovak: Bezak B., et al.) – KT9a - In: Project 5. FP EÚ PORTAL 2003
- [16] Policy Formulation and Implementation (in Slovak: Bezak B., et al.) – KT9b - In: Project 5. FP EÚ PORTAL 2003

IX.3 Conferences

- [1] TOMÁŠIKOVÁ, E.: Track Alignment Design Parameters According to European Prestandard ENV 13803-1, 3d Scientific Conference of Jan Perner Transport Faculty on New Trends in Transport and Communications, Pardubice, 2003, pp. 169-174
- [2] GRÜNNER, K.: European Standards for Concrete Aggregates. In: Seminar on Concrete Cement Production 2003, Štrbské Pleso, Feb. 2003, pp. 39-94
- [3] GRÜNNER, K.: Effect of European Standards on Aggregate Production, Testing and Usage. In: SZVK technical journal, No. 1/2003, pp. 22-25
- [4] GRÜNNER, K.: Criteria for Evaluating the Availability of Asphalt Mixtures. In: 5th Seminar (with international participation) on Q-2003 Asphalt Pavements, Žilina, April 2003, pp. 210-214.
- [5] GRÜNNER, K.: Exploitation of the Dynamic Weighing of Road Vehicles in a Pavement Management System. In: Proceedings of 2d International Conference on Dynamics of Civil Engineering and Transport Structures and Wind Engineering DYN-WIND 2003, Tále, May 2003, pp. 182-187
- [6] GRÜNNER, K.: Application of the Dynamic Weighing of Vehicles in Road Management. In: Proceedings of the 11th International Scientific Conference on Science, Education and Society, Žilina, September 2003, pp. 147-152
- [7] GRÜNNER, K.: Quality Management in Road Construction. In: Quality and Reliability in the Building Industry. 3d International Conference, Levoča, October 2003, pp. 209 – 214
- [8] GRÜNNER, K., ROMANCOVÁ, I.: Effect of European Standards on Aggregate Production, Testing and Usage. In: SZVK technical journal, No.2/2003, pp. 26-31
- [9] GRÜNNER, K.: Use of EN in the Weatherproofing and Bridge Pavement Area. In: Proceedings of the Hydroisolation of Bridges and Tunnels, Podbanské, November 2003, pp. 28 – 33
- [10] GRÜNNER, K.: Exploitation of Milled Mixtures in Asphalt Road Pavements. In: Proceedings of Conference, AV – 2003 – Asphalt Pavement, České Budějovice, November 2003, pp. 234-239
- [11] GRÜNNER, K., ROMANCOVÁ, I.: Effect of European Standards on Aggregate Production, Testing and Usage. In: SZVK technical journal, No.3/2003, pp. 22-25
- [12] GRÜNNER, K., DURMEKOVÁ, T., Wagner, P.: Exploitation Possibilities of Muck from Tunnels as a Construction Material, Slovak Journal of Civil Engineering, 2/2003
- [13] RAKŠÁNYI, P.: Sustainability Rules at Ecocity Trnava, In: Proceedings of International Conference on Transportation and Telecommunications in the 3d Millennium”, 10th Anniversary of the Foundation of the Faculty of Transportation Sciences, Prague, May 26-27, 2003, pp. 251-254 (in Slovak)
- [14] RAKŠÁNYI, P.: Bratislava Case Study – Specific Problems of CEE Countries in Transecon Project, In: Transecon Symposium, Divani Palace Acropolis Hotel, Athens, 20-21 Nov. 2003, Ppt 20, published at: www.transecon.org.news (in English)
- [15] RAKŠÁNYI, P.: Evaluation of the Effects of Public Transport Services on Regional and Municipal Development, In: Proceedings of 6th International Public Transport Conference, Bratislava, May 21-22, 2003, pp. 47-53 (in Slovak)

- [16] RAKŠÁNYI, P.: Transport Aspects of Rural Development, In: Proceedings of International Conference on Urban, Architectural and Technical Aspects of Rural Renewal III, Department of Architecture of the Faculty of Civil Engineering, STU, Bratislava, ZMOS/Union of Towns and Villages in Slovakia, Bratislava, May 2003, pp. 20-25 (in Slovak)
- [17] RAKŠÁNYI, P.: Urban Transport and Local Socio-Economic Development, In: Proceedings of 11th International Scientific Conference on Science, Education and Society, University of Žilina, ŽUŽ Žilina, 17-19 Sept. 2003, pp. 205-208 (in English)
- [18] BEZÁK B. et al.: Road, Transport, Livability and Sustainable Development, National Report Slovakia ST2, 22d World Road Congress, C 10 PIARC, Durban, South Africa October 2003
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