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Road Research Laboratory
Experimental Division of the Department of Transport Construction and Traffic Engineering

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Achs Peter
Ján Balúch
Eva Falubová
Vladimír Geisler
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

<table>
<thead>
<tr>
<th>Subject</th>
<th>Semester</th>
<th>Hours per Week Lectures</th>
<th>Lecturer</th>
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<tr>
<td>Environment</td>
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<tr>
<td>Land Ecology and Territorial Planning</td>
<td>3</td>
<td>2 – 2</td>
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</tr>
<tr>
<td>Land Ecology and Territorial Planning</td>
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<td>2 - 2</td>
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<tr>
<td>Transport Construction</td>
<td>5</td>
<td>1 - 1</td>
<td>Tomášiková</td>
</tr>
<tr>
<td>Transport Construction</td>
<td>5</td>
<td>4 - 2</td>
<td>Nemček</td>
</tr>
<tr>
<td>Transport Construction</td>
<td>6</td>
<td>3 - 2</td>
<td>Bačová</td>
</tr>
<tr>
<td>Road Construction</td>
<td>6</td>
<td>3 - 2</td>
<td>Gschwendt</td>
</tr>
<tr>
<td>Practicum</td>
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<td>2 weeks</td>
<td>Bartošová</td>
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<tr>
<td>Bachelor Thesis</td>
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<td></td>
<td></td>
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<tr>
<td>Roads in Urban Areas</td>
<td>7</td>
<td>3 - 2</td>
<td>Bezák</td>
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<tr>
<td>Regional Road Settlements</td>
<td>7</td>
<td>2 - 2</td>
<td>Nemček</td>
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<tr>
<td>Transport Construction</td>
<td>7</td>
<td>2 - 2</td>
<td>Kapusta</td>
</tr>
<tr>
<td>District Plan</td>
<td>7</td>
<td>0 - 4</td>
<td>Bezák</td>
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<tr>
<td>Foreign Language</td>
<td>7</td>
<td>0 - 2</td>
<td>Tomášiková</td>
</tr>
</tbody>
</table>
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)

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 Münchengladbach, Germany
13. CEN/TC 256, Belgium
14. Industry Viertl – Vienna, Austria
15. Salzburger Landesregierung, Salzburg, Austria
16. Hungarian Academy of Science Regional Research Center, Gyor, Hungary
17. West Transdanubian Regional Development Agency, Gyor, 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

<table>
<thead>
<tr>
<th>Name</th>
<th>Organisation</th>
<th>Country</th>
<th>Stay</th>
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<tbody>
<tr>
<td>Werner Kvarda</td>
<td>BoKu Vienna</td>
<td>Austria</td>
<td>1x2, 1x5</td>
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<tr>
<td>Gerd Sammer</td>
<td>BoKu Vienna</td>
<td>Austria</td>
<td>1x2 days</td>
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<td>Wolfgang Berger</td>
<td>BoKu Vienna</td>
<td>Austria</td>
<td>1x5 days</td>
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<tr>
<td>Smiljan Vukanović</td>
<td>TU Belgrade</td>
<td>Yugoslavia</td>
<td>1x2 days</td>
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<td>Emesse Makó</td>
<td>SIC Győr</td>
<td>Hungary</td>
<td>1x5 days</td>
</tr>
<tr>
<td>Edit Koren</td>
<td>SIC Győr</td>
<td>Hungary</td>
<td>1x5 days</td>
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<tr>
<td>Csaba Koren</td>
<td>SIC Győr</td>
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<td>1x2, 1x5</td>
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<tr>
<td>Csaba Orosz</td>
<td>TU Budapest</td>
<td>Hungary</td>
<td>1x1, 1x2</td>
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<tr>
<td>Marian Tracz</td>
<td>TU Craców</td>
<td>Poland</td>
<td>1x2, 1x5</td>
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<tr>
<td>Marian Toplak</td>
<td>University of Maribor</td>
<td>Slovenia</td>
<td>1x5 days</td>
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<tr>
<td>Hartmund Münch</td>
<td>FH Erfurt</td>
<td>Denmark</td>
<td>1x4, 1x5</td>
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<tr>
<td>Robert Schnüll</td>
<td>TU Hannover</td>
<td>Denmark</td>
<td>1x5 days</td>
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<tr>
<td>Aida Macerinskiene</td>
<td>TU Vilnius</td>
<td>Estonia</td>
<td>1x5 days</td>
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</table>
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.: CONPASS 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, Ľ.: 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
- Lakoštík, A.: TU Belgrade, 1 x 4 days
- Lakoštík, A.: BoKu Vienna, 1 x 1 day
- Lakoštík, 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

<table>
<thead>
<tr>
<th>No.</th>
<th>Student’s name</th>
<th>Title</th>
<th>Supervisor</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>Michal Bodnár</td>
<td>Modernisation of Púchov Railway Station</td>
<td>E. Tomášiková</td>
</tr>
</tbody>
</table>
2. Zdenko Kubina  Road I/50 Rimavská Sobota – Figa - Study  V.Kapusta

3. Andrea Ďurišová  Concrete Pavement in Tunnel on Motorway D18  I.Gschwendt
    Kysucké N.Mesto – Hričovské Podhradie

4. Roman Sloboda  Road I/18 Žilina – Strážov – Motorway Access  J.Tomko

5. Peter Tekel'  Airport Evaluation in Prešov Area for cargo Purposes  L.Bartošová

6. Juraj Leškovský  Technical and Economic Comparison of Asphalt and Concrete Pavements on Bridges  K.Bačová

7. Martin Hudčan  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 Surounding – Bypass Study  L.Bartošová

10. Martin Vávra  Road I/63 Dunajská Streda – Nové Zámky – Study  J. Tomko

VII.2 Doctoral Theses

<table>
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<tr>
<th>No.</th>
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<th>Title of doctoral work</th>
<th>Supervisor</th>
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<tbody>
<tr>
<td>1.</td>
<td>Ing. Peter Rakšányi</td>
<td>Multicriterial Evaluation Methodology of Urban Road Network: Interaction Area-Transport-Area</td>
<td>B. Bezák</td>
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<td>2.</td>
<td>Ing. Martin Kapusta</td>
<td>Effect of Traffic-Engineering Parameters on Equivalent Noise Level</td>
<td>K. Bačová</td>
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</tbody>
</table>

VIII. OTHER ACTIVITIES

VIII.2 Commercial Activities for Firms and Institutions

1. Transformation of input data for Tensar – Pave computer programme. - I. Gschwendt
4. Laboratory tests of materials, an experimental section of D 61 with geosynthetics. - I. Gschwendt
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


IX.2 Books and Textbooks


IX.3 Conferences


