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Experimental Division of the Department of Transport Construction and Traffic Engineering

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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</th>
<th>Lecturer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Land Ecology and Territorial Planning</td>
<td>3</td>
<td>2 – 2</td>
<td>Bezák</td>
</tr>
<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>
<td>6</td>
<td>2 weeks</td>
<td>Bartošová</td>
</tr>
<tr>
<td>Roads in Urban Areas</td>
<td>7</td>
<td>3 - 1</td>
<td>Bezák</td>
</tr>
<tr>
<td>Regional Road Settlements</td>
<td>7</td>
<td>2 - 2</td>
<td>Nemček</td>
</tr>
<tr>
<td>Transport Construction</td>
<td>7</td>
<td>2 - 2</td>
<td>Kapusta</td>
</tr>
</tbody>
</table>
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
Railway Construction 9 2 - 2 Dostál
Train-Running Dynamics 9 2 - 2 Tomášíková
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 Tomášíková
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


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

ECOCITY Project main partners:
- Institute for Economic Geography, Regional Development and Environmental Management, Vienna, Austria
- Institut fuer Raumplanung und Ländliche Neuordnung, Universitaet für Bodenkultur, Vienna, Austria
- Institut für Ortliche Raumplanung, Vienna, Austria
- Technical Research Centre of Finland, Espoo, Finland
- Grupo de Estudios y Alternativas 21 S.L., Madrid, Spain
- Progettazione per il Restauro L'Architettura e L'Urbanistica, Rome, Italy
- eboek - Ingenieurbüro für Energieberatung, Haustechnik und oekologische Konzepte GbR, Tuebingen, Germany
- University of Tampere, Finland
- Nederlandse onderneming voor energie en milieuv 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 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, 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

<table>
<thead>
<tr>
<th>Name</th>
<th>Organisation</th>
<th>Country</th>
<th>Stay</th>
</tr>
</thead>
<tbody>
<tr>
<td>Csaba Koren</td>
<td>SIC Győr</td>
<td>Hungary</td>
<td>1 day</td>
</tr>
<tr>
<td>Franz Skala</td>
<td>WirtschaftsUniversität</td>
<td>Austria</td>
<td>2x1 day</td>
</tr>
<tr>
<td>Rainer Vienna</td>
<td>MayerhoferIOR,</td>
<td>Austria</td>
<td>1 day</td>
</tr>
</tbody>
</table>

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

- Bačová, K.: ECOCITY Vienna, 1 x 1 day
- Bačová, K.: Meeting, Germany, 1 x 4 days
- Bačová, K.: Meeting, Černice, 1 x 2 days
- Bačová, K.: Seminar, Warsaw, 1 x 4 days
- Bačová, K.: Excursion, Austria, Czech Republic, Germany, 1 x 7 days
- Bezák, B.: CVUT Prague, 1 x 1 day
- Bezák, B.: CONPAS Malmö, 1 x 4 days
- Bezák, B.: CONPAS Gorizia, 1 x 5 days
- Bezák, B.: Conference, Kittsee, 1 x 1 day
- Bezák, B.: Prospects Vienna, 1 x 1 day
- Rondoš, L.: ČVUT Prague, 1 x 2 days
- Gschwendt, I.: Workshop, Vienna, 1 x 2 days
- Gschwendt, I.: Meeting, Győr, 1 x 1 day
- Gschwendt, I.: Conference, Olomouc, 1 x 1 day
- Gschwendt, I.: VU 802 Warsaw, 1 x 5 days
- Gschwendt, I.: Exposition Prague, 1 x 2 days
- Gschwendt, I.: TU Vienna, 1 x 1 day
- Rakšányi, P.: ECOCITY Vienna, 1 x 1, 1 x 5 days
- Rakšányi, P.: Meeting, Brno, 1 x 1 day
- Rakšányi, P.: ECOCITY Brussels, 1 x 3 days
- Rakšányi, P.: ECOCITY, Tübingen, 1 x 2 days
- Barciova, L.: Excursion, Austria, Czech Republic, Germany, 1 x 7 days
- Šurišová, A.: Excursion, Austria, Czech Republic, Germany, 1 x 7 days
- Kapusta, V.: VÚ Brno, 1 x 1 day
- Staňo, R.: Exposition, Prague, 1 x 2 days
- Staňo, R.: VU 802 Wroclav, 1 x 3 days
- Staňo, R.: Dopravní stavby, Velká Bystrice u Olomouce, 1 x 1 day
- Lukáč, L.: ECOCITY Vienna, 1 x 1 day

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>Róbert Hatos</td>
<td>Arbitration Orbital System at Poprad Airport</td>
<td>L. Bartošová</td>
</tr>
<tr>
<td>2.</td>
<td>Marián Kotyra</td>
<td>Hubova - Ivachnova Highway - Study</td>
<td>K. Bačová</td>
</tr>
<tr>
<td>3.</td>
<td>Štefan Matoľák</td>
<td>Application of Rigid Pavement for SITINA Tunnel</td>
<td>I. Gschwendt</td>
</tr>
</tbody>
</table>

(Highway D2 Bratislava, Lamasca Route - Stare)
VII.2 Doctoral Theses

No.  Student’s name  Title of doctoral work  Supervisor
1.  Ing. Alica Kapušová - Gregáňová  Multicriterial Evaluation of Expressways and Motorways in Urban Areas with respect to Noise Impact  B. Bezák

VIII. OTHER ACTIVITIES

VIII.2 Commercial Activities for Firms and Institutions

1.  I. Gschwendt - Rehabilitation and Strengthening of Asphalt Pavements (Technical Specifications)
2.  I. Gschwendt - Cement Concrete Pavement Design Method (Technical Specifications)
3.  I. Gschwendt - Cement Concrete Pavement for Road No. I/18 in Ružomberok
4.  I. Gschwendt - Results of Measurements on Experimental Highway, Section D61, Bratislava
6.  I. Števuška - Measurement of the Friction Coefficient Longitudinal at High Speeds – to 120km.\(^{h-1}\) on the Volkswagen Bratislava Testing Track
7.  I. Števuška - Expert Evaluation of Pavement Surface Roughness on Foundation of Friction Coefficient Longitudinal on Highway D61 on the Sections as Follows
8.  E. Tomášiková - Security Operation Action According to CEN TC 256 Railroad Performance Conditions Fellowship at CEN., MDPT
10.  E. Tomášiková - EN 13145 Railway Applications - Track - Wood Sleepers and Bearers, Acceptance of Standard into Arrangement STN
14.  K.Grünner - Standardisation Problem Solution: Translation of EN 933-6
15.  K.Grünner - Design of Availability of Crushed Gravel for Road Constructions
16.  K.Grünner - Availability Assessment of Aggregates from Badín Locality for Road Purposes
17.  K.Grünner - Standardisation Problem Solution: Translation of EN 13383-2
18.  K.Grünner - Standardisation Problem Solution: Translation of EN 12274-2
19.  K.Grünner - Standardisation Problem Solution: Translation of EN 12274-1
20.  K.Grünner - Standardisation Problem Solution: Translation of EN 12274-6
21. K.Grünner - Availability Assessment of Aggregate Sample from the Point of View of Polishing for Road Purposes
22. K.Grünner - Availability Assessment of Aggregates from Sološnica Locality for Road Wearing Courses
23. K.Grünner - Availability Assessment of Aggregates from Sása Locality for Road Purposes
24. K.Grünner - Standardisation Problem Solution: Translation of EN 12271-3
25. K.Grünner - Standardisation Problem Solution: Translation of EN 12272-1
26. K.Grünner - Standardisation Problem Solution: Translation of EN 12274-3
27. K.Grünner - Availability Assessment of Andesite from Hanišberg Locality for Road Purposes
29. Tomko, Bartošová - Building Reconstruction at the Slovak Embassy in Delhi–Traffic Surfaces
30. R. Staňo - Evaluation of Visual Condition Survey of Bratislava Airport Runway
31. R. Staňo - Quality Control of Compaction of Base Layers on VOLKSWAGEN Test Track
32. R. Staňo - Evaluation of Crushed Stone from Sološnica, Trstín and Lošonec for Road Pavement Construction

IX. PUBLICATIONS

IX.1 Journals

IX.2. Books and Textbooks


IX.3 Conferences


University (with international participation), 10th section: Construction Materials, Košice 2002, pp. 79-84 (in Slovak)


[45] STAŇO, R.: Reconstruction of Cement Concrete Pavement on Road No I/61, Senec – Lúčny Dvor


