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| DEPARTMENT OF BUILDING STRUCTURES |
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Head of the Department:
Professor Anton Puškár, PhD.

Tel.: + 421 2 59274 642
Fax: + 421 2 52920 482
E-mail: anton.puskar@stuba.sk

I. STAFF**Professors**

| | | |
|-------------------------|------------------|----------------------------|
| Beňko Bohumír, PhD. | +421 2 59274 434 | bohumir.betko@stuba.sk |
| Bielek Milan, DSc. | +421 2 59274 444 | milan.bielek@stuba.sk |
| Hraška Jozef, PhD. | +421 2 59274 458 | jozef.hraska@stuba.sk |
| Chmúrny Ivan, PhD. | +421 2 59274 402 | ivan.chmurny@stuba.sk |
| Ohrablo František, PhD. | +421 2 59274 456 | frantisek.ohrablo@stuba.sk |
| Oláh Jozef, PhD. | +421 2 59274 463 | jozef.olah@stuba.sk |
| Puškár Anton, PhD. | +421 2 59274 642 | anton.puskar@stuba.sk |
| Tomašovič Peter, PhD. | +421 2 59274 436 | peter.tomasovic@stuba.sk |

Professors Emeritus

| | | |
|------------------|------------------|---------------------|
| Hykš Pavel, PhD. | +421 2 59274 462 | pavel.hyks@stuba.sk |
|------------------|------------------|---------------------|

Associate Professors

| | | |
|------------------------|------------------|---------------------------|
| Adamská Gabriela, PhD. | +421 2 59274 435 | gabriela.adamska@stuba.sk |
| Bielek Boris, PhD. | +421 2 59274 323 | boris.bielek@stuba.sk |
| Fučila Jozef, PhD. | +421 2 59274 649 | jozef.fucila@stuba.sk |
| Greško Dušan, PhD. | +421 2 59274 449 | dusan.gresko@stuba.sk |
| Mikolai Imrich, PhD. | +421 2 59274 479 | imrich.mikolai@stuba.sk |
| Žilinský Juraj, PhD. | +421 2 59274 461 | juraj.zilinsky@stuba.sk |

Senior Lecturers

| | | |
|-------------------------------|------------------|--------------------------------|
| Bacigalová Janka, PhD. | +421 2 59274 437 | janka.bacigalova@stuba.sk |
| Buday Peter, PhD. | +421 2 59274 654 | peter.buday@pobox.sk |
| Dlhý Dušan, PhD | +421 2 59274 451 | dusan.dlhy@stuba.sk |
| Držka Milan, PhD. | +421 2 59274 447 | milan.drzka@stuba.sk |
| Gašparovičová Viera, PhD | +421 2 59274 460 | viera.gasparovicova@stuba.sk |
| Gieciová Mária, PhD | +421 2 59274 462 | maria.gieciova@stuba.sk |
| Iskrová Alica | +421 2 59274 446 | alica.iskrova@stuba.sk |
| Jakeš Erik, PhD | +421 2 59274 438 | erik.jakes@stuba.sk |
| Jamnický Martin, PhD. | +421 2 59274 457 | martin.jamnicky@stuba.sk |
| Mend'an Rastislav, PhD. | +421 2 59274 397 | rastislav.mendan@stuba.sk |
| Miklósiová Terézia, PhD. | +421 2 59274 433 | terezia.miklosiova@stuba.sk |
| Mínarovičová Katarína, PhD. | +421 2 59274 433 | katarina.minarovicova@stuba.sk |
| Olbrímek Juraj, PhD. | +421 2 59274 450 | juraj.olbrimek@stuba.sk |
| Palko Milan, PhD | +421 2 59274 654 | milan.palko@stuba.sk |
| Pernišová Alena, PhD. | +421 2 59274 443 | alena.pernisova@stuba.sk |
| Rabenseifer Roman, Dr. techn. | +421 2 59274 450 | rabens@svf.stuba.sk |
| Rychtáriková Monika, PhD. | +421 2 59274 456 | monika.rychtarikova@stuba.sk |
| Straňák Zsolt | +421 2 59274 459 | zsolt.stranak@stuba.sk |
| Šallai Enikó | +421 2 59274 654 | sallai.eniko@freemail.hu |
| Šebestová Viera, PhD. | +421 2 59274 439 | viera.sebestova@stuba.sk |
| Vargová Andrea, PhD. | +421 2 59274 443 | andrea.vargova@stuba.sk |

| | | |
|-----------------------------|------------------|-----------------------------|
| Vavrovič Boris, PhD. | +421 2 59274 397 | boris.vavrovic@stuba.sk |
| Research Fellows | | |
| Janák Milan, PhD. | +421 2 59274 459 | milan.janak@stuba.sk |
| Janáková Ľubica | +421 2 59274 453 | lubica.janakova@stuba.sk |
| Štujber Miloslav | +421 2 59274 465 | miloslav.stujber@stuba.sk |
| Turček Ivan, PhD. | +421 2 59274 441 | ivan.turcek@stuba.sk |
| Zajac Jozef, DSc. | +421 2 59274 451 | jozef.zajac@stuba.sk |
| Doctoral Students | | |
| Jelínek Michal | +421 2 59274 654 | michal.jelinek@stuba.sk |
| Maňková Lucia | +421 2 59274 655 | lucia.mankova@stuba.sk |
| Mihók Miroslav | +421 2 59274 654 | mihok.miroslav@centrum.sk |
| Mikušová Miroslava | +421 2 59274 655 | miroslava.mikusova@stuba.sk |
| Pavčeková Monika | +421 2 59274 645 | pavcekova@svf.stuba.sk |
| Podstavská Alžbeta | +421 2 59274 645 | betka69@hotmail.com |
| Ponechal Radoslav | +421 2 59274 645 | radoslav.ponechal@gmail.com |
| Tkáč Ján | +421 2 59274 653 | tkacj@pobox.sk |
| Technical Staff | | |
| Lukačovič Michal | +421 2 59274 422 | michal.lukacovic@stuba.sk |
| Kochánková Soňa (secretary) | +421 2 59274 643 | sona.kochankova@stuba.sk |
| Ordódyová Eva | +421 2 59274 664 | eva.ordodyova@stuba.sk |
| Szabó Daniel | +421 2 59274 452 | daniel.szabo@stuba.sk |

II. EQUIPMENT

II.1 Teaching and Research Laboratories

- Large climatic chamber for synergistic research on heat transfer, vapour diffusion and air infiltration
- Acoustic chamber for experimental research on airborne sound and impact of sound insulation
- Large pressure chamber for air infiltration research
- Rain chamber for research on water penetration through details of walls and roofs
- Solar chamber for the study of the energy balance of windows
- Physics laboratory for foundation engineering

II.2 Special Measuring Instruments and Computers

- Testing equipment for research on the durability of materials
- PC - laboratory for CAD systems
- SUN Microsystem – UNIX laboratory for computer-aided building simulation

II.3 Computer Software

The following state-of-the-art computer software is used in Computer Building Simulation classes:

- ASAP - a professional optical modeling program designed to calculate the performance of fully three-dimensional optical systems. The program originates from the Breault Research Organization, Inc. (<http://www.breault.com/>);

- ESP-r - a European thermal simulation reference program capable of integrated energy and environmental simulation of buildings. The program originates from the Energy Systems Research Unit of the University of Glasgow (<http://www.strath.ac.uk/Departments/ESRU/>);
- RADIANCE - lighting simulation and rendering system, which originates from the Lawrence Berkeley Laboratory (<http://radsite.lbl.gov/radiance/>).

III. TEACHING

The Department covers the basic study areas necessary for a graduate of this discipline. The theory of building construction is based on a symbiosis of architecture, construction, and applied building physics. In the subjects of building construction, studio design typology, architectural design, thermodynamics, acoustics, day lighting, and the energy efficiency of buildings, students are directed towards the design of construction units, elements, and details by theoretical and experimental methods of reasoning.

III.1 Graduate Study

| Subjects | Semester | Hours Per Week | | Lecturer |
|-----------------------------------------|----------|----------------|----------|--------------------|
| | | Lectures | Seminars | |
| Technical Drawing | 1 | 0 | 2 | Gieciová |
| Building Construction I. | 2 | 2 | 2 | Adamská, Šebestová |
| Building Construction II. | 3 | 2 | 2 | Gieciová, Žilinský |
| Building Construction III. | 4 | 2 | 2 | Zajac, Bacigalová |
| Building Construction IV. | 5 | 2 | 2 | Ohrablo, Oláh |
| Building Construction V. | 6 | 2 | 2 | Pušár, Polák |
| Thermal Engineering of Buildings I. | 4 | 2 | 2 | Beřko, Chmúrny |
| Design Studio I. | 4 | 0 | 3 | Rabenseifer, ARC |
| Design Studio II. | 5 | 0 | 2 | Miklósiová, ARC |
| Design Studio III. | 6 | 0 | 3 | Miklósiová |
| Building Acoustics and Illumination I. | 5 | 2 | 2 | Tomařovič |
| Building Construction VI. | 7 | 2 | 2 | Jakeř |
| Design Studio VII. | 10 | 0 | 5 | Drřka |
| Energy Effectiveness of Buildings | 8 | 2 | 2 | Bielek |
| Computer Graphics | 9 | 1 | 3 | Jamnicky, řtjber |
| Industrial and Engineering Construction | 9 | 0 | 4 | Turček |
| Renewal and Modernization of Buildings | 10 | 2 | 2 | Turček, Puřár |
| Fire Safety of Buildings | 7 | 1 | 2 | Mikolai |
| Design Studio IV. | 7 | 0 | 5 | řebestová |
| Design Studio V. | 8 | 0 | 5 | řebestová |
| Design Studio VI. | 9 | 0 | 5 | Drřka |
| Design Studio VII. | 10 | 0 | 5 | Drřka |
| Computer-Aided Design | 8 | 2 | 3 | Jamnicky |
| Internships | 8 | | | Drřka |

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| Special Architectural Design | 9 | 2 – 2 | Hraška |
| Building Defects and Reconstructions | 9 | 2 – 2 | Greško |
| Special Seminar I. | 9 | 0 – 2 | Adamská |
| Special Seminar II. | 10 | 0 – 2 | Adamská |
| Solar Energy Gains and Illumination of Buildings | 10 | 2 – 1 | Hraška |
| Design of Architectural Structures | 10 | 2 – 1 | Mínaviřov |
| Thermal Engineering of Buildings II. | 9 | 2 – 1 | Beřko, Chmurny |
| Aerodynamics and Hydrodynamics | 9 | 2 – 1 | Bielek |
| Low-Energy Architecture | 10 | 2 – 1 | Hraška |
| Computer Building Simulation | | | |
| Urban and Building Acoustics | 9 | 1 – 2 | Hraška, Janak |
| Fire Safety of Buildings | 10 | 2 – 1 | Tomařoviř |
| | 10 | 2 – 1 | Mikolai, Olbřimek |

III.2 Postgraduate Study

| Subjects | Semester | Hours Per Semester | Lecturer |
|-----------------------------------------------------------------------------------|----------|--------------------|----------|
| Alternative and Renewable Energy Sources | 1 | 2 | Bielek |
| Slovak Energy-Saving Programs | 1 | 2 | Chmurny |
| Construction Energy Standards and Codes | 1 | 4 | Chmurny |
| Theory of Low-Energy Housing | 2 | 2 | Bielek |
| Basement and Foundation Details from the Point of View of Energy Savings | 2 | 2 | Turřek |
| Non-Transparent Building Envelope | 2 | 2 | Puřkar |
| Transparent Building Envelope | 2 | 2 | Puřkar |
| The Role of Flat Roofs in Building Energy Consumption | 2 | 2 | Puřkar |
| The Effect of Brickwork Moisture upon Increases in Heat Transmission Losses | 2 | 2 | Olah |
| Heat Regeneration in Energy-Efficient Buildings | 2 | 2 | Adamska |
| Architectural Design of Houses from the Point of View of Energy Savings | 2 | 0,5 | Hraška |
| Durability of Materials and Construction from the Point of View of Energy Savings | 2 | 2 | Hykř |

IV. RESEARCH TARGETS

The Department of Building Structures (DBS) at the Faculty of Civil Engineering of the Slovak University of Technology is one of the leading Slovak facilities devoted to building research and development. It assists in the research of the Faculty of Civil Engineering, students, the building industry, the regulatory community and others interested in building and construction practice.

The mission statement of the DBS says: *“Identify, develop, and deploy sustainable and energy-efficient building system technologies by forming partnerships between university sources and industry for analysis, well-characterized experiments, technological development, and market outreach“.*

The scientific and research activity of the Department is aimed at problems of thermal comfort, heat and humidity transfer through the walls and roofs of buildings and their joints, sound transmission in buildings, room and urban acoustics, the theory of day lighting and the solar energy of buildings, air infiltration and the effect of driven rain on walls and roofs of buildings and their joints, the total energy effectiveness of buildings, the durability of building materials, diagnoses, and building reconstruction.

Main research areas covered by the Department of Building Structures at the present time:

1. Climate Model - Slovak Test Reference Year for use in a dynamic simulation program for predicting building energy consumption
2. Precise new methods and models for natural ventilation analysis
3. Development of a dynamic simulation method for mathematical modeling of thermal building performance
4. Physical quantification of passive solar systems as components of solar architecture in a theory for developing low-energy houses
5. Design of a structural system with future parameters (year 2010):
 - optimization of static criteria
 - optimization of technology
 - application of energy-efficient construction elements
 - development of joint function systems with the inclusion of a high degree of know-how and technical facilities
6. Research on degrading factors which affect the durability and reliability of selected residential and commercial building structures
7. Research on the properties of structural materials
8. Developments and research in system engineering
9. Analysis of comfort parameters - criteria for thermal engineering, energy balance and technical equipment of buildings
10. Analysis of the creation of acoustical criteria in the noise protection of buildings
11. Analysis of the creation of criteria for daylight design systems and artificial lighting in building interiors

V. RESEARCH PROJECTS

1. VEGA 1/0314/03 – Theory, experiment, simulation and structural design of double transparent facades of intelligent buildings
2. VEGA 1/0308/03 – Simulation of buildings in the Slovak climate conditions
3. VEGA 1/0317/03 – Building envelopes for challenging indoor functions
4. VEGA 1/2146/05 – Establishment of measuring methods, assessments and criteria for classrooms from the viewpoint of the presence of additional sound sources
5. MVTS 1 / 7138 / 20 – Collaboration of Austrian, Hungarian, German and Slovak institutions of higher education in the redevelopment of rural areas
6. MVTS Bil/Nem/SR/STU/06 - Reduction of the Consumption of Landscape Areas by Activating the Potential of Existing Urban Spaces
7. APVT-20-014904 – Simulations of indoor and external building environments in the fields of aerodynamics, thermodynamics and acoustics
8. APVT-51-030704 – Complex thermal and moisture performance of buildings

VI. COOPERATION

VI.1 Cooperation in Slovakia

1. Ministry of Building and Regional Development of the Slovak Republic, Bratislava
2. Ministry of the Environment of the Slovak Republic, Bratislava
3. Slovak Institute of Technical Standardization, Bratislava
4. TASUS, Bratislava
5. TU Košice
6. TU Zvolen
7. University of Agriculture, Nitra
8. VVUPS NOVA, Bratislava
9. Lignotesting, Bratislava
10. Nováky Chemical Works, Nováky
11. Alufinal, Žiar nad Hronom
12. Priemstav, Bratislava
13. Nitrasklo, Nitra
14. Drevina Turany, Turany
15. Matador, Púchov

VI.2 International Cooperation

1. TU Vienna, Austria
2. Wolfen WIRN, Austria
3. ČVUT Prague, Czech Republic
4. VUT Brno, Czech Republic
5. KEB Berlin, Germany
6. IFT Rosenheim, Germany
7. Planungsinstitut für ländliche Siedlung, Stuttgart, Germany
8. TU Budapest, Hungary
9. TU Győr, Hungary
10. CE Haifa, Israel
11. TU Eindhoven, The Netherlands

12. TU Delft, The Netherlands
13. KU Leuven, Belgium
14. MISI Moscow, Russia
15. TU Kharcow, Ukraine
16. University of Strathclyde, United Kingdom

VI.2.1 Visitors to the Department

- Prof. Dr. P. Bálint, University of Technology, Budapest, Hungary, 1 day
- Dipl.-Ing. S. Hoffmann, Bauhaus University, Weimar, Germany, 1 day
- Assoc. Prof. M. Kalousek, PhD, University of Technology, Brno, Czech Republic, 1 day
- Assoc. Prof. Dipl.-Ing. G. Konieczny, Konieczny Architekten, Stuttgart, Germany, 1 day
- Prof. G. Levermore, PhD, University of Manchester, UK, 1 day
- Prof. Dr.-techn. A. Mahdavi, University of Technology, Vienna, Austria, 1 day
- Prof. Dr.-techn. E. Panzhauser, University of Technology, Vienna, Austria, 1 day
- Assoc. Prof. J. Sedlák, PhD, University of Technology, Brno, Czech Republic, 1 day

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

Prof. Ing. J. Oláh, PhD, research stay at the University of Manchester, UK, 1 week

Dr.-techn. Ing. arch. R. Rabenseifer, research stay at the University of Manchester, UK, 1 week

Dr.-techn. Ing. arch. R. Rabenseifer, research stay at the University of Stuttgart, Germany, 3 months

VII. THESES

VII.1 Graduate Theses

Every year, approximately 60 - 80 students are engaged in fulfilling the requirements of their dissertations. The supervisors of the diploma projects are the professors, associate professors and assistant professors of the Department.

The diploma theses cover:

- General project documentation for residential, public, cultural, sports, industrial and agricultural buildings and facilities
- Reconstruction of buildings
- Theoretical analysis and design of the envelope and interior construction of buildings

VIII. OTHER ACTIVITIES

VIII.1 Special Lectures

IT-based environmental simulation courses started under the EU – TEMPUS scheme as part of the Joint European Project 09909-95:

The project is aimed at developing and introducing building performance simulation courses that are integrated and highly interdisciplinary in their content and fully compatible with, and equivalent to, courses at EU universities. Furthermore, newly-developed courses have

also been adopted at EU partner universities. The courses have been given at all the participating institutions since the summer term, 1997.

VIII.2 Commercial Activities for Firms and Institutions

Thanks to its computer and laboratory equipment, the Department of Building Structures meets the highest quality standards for the tasks it performs, particularly in the area of the precise measurement and computer simulation of buildings. Among its most important clients are:

1. The Ministry of Building and Public Works of the Slovak Republic, Bratislava
2. The Ministry of the Environment of the Slovak Republic, Bratislava
3. The Slovak Institute of Technical Standardization, Bratislava
4. TASUS, Bratislava
5. VVUPS NOVA, Bratislava
6. Lignotesting, Bratislava
7. Chemical Works of Nováky, Nováky
8. Alufinal, Žiar nad Hronom
9. Priemstav, Bratislava
10. HUECK-Slovakia, Bratislava
11. Glaverbel Czech, Kryry, Czech Republic
12. Nitrasklo, Nitra
13. Drevina Turany, Turany
14. Matador, Púchov
15. Jančina Architecture Office, Bratislava
16. Závodný Architecture Office, Bratislava

IX. PUBLICATIONS

IX.1 Journals

- [1] BEŤKO, B.: Defects of Sloped Roofs in Mountain Areas Caused by the Winter Season. In: Roofs, Facades, Insulations (Střechy, fasády, izolace), Vol. 13, No. 9, 2006, pp. 50-52
- [2] BEŤKO, B.: Thermal and Technical Properties of the Roof of the National Tennis Centre in Bratislava. In: Roofs, Facades, Insulations (Střechy, fasády, izolace), Vol. 13, No. 4, 2006, pp. 60-62
- [3] BIELEK, M., BIELEK, B.: Designing Intelligent Facade Elements and Facade Structures Through the Utilization of Natural Physical Phenomena. In: Czasopismo techniczne. Wydawnictwo Politechniki Krakowskiej. Krakow, Poland, Vol. 103, No. 5-B, pp. 41-48
- [4] BIELEK, B., FRIMMER, M., BIELEK, M.: Anchor System Physics of the Double-Skin Transparent Building Facade of the National Bank of Slovakia in Bratislava. In: Building Research Journal, Slovak Academic Press, Vol. 54, No. 4, 2006, pp. 219-238
- [5] HRAŠKA, J.: Dynamic Simulations of Daylight in Buildings. In: Heating, Ventilation, Installations (Vytápění, větrání, instalace), Society for Environmental Techniques, Vol.15, No.4, 2006, pp. 191-197 (in Slovak)
- [6] CHMÚRNÝ, I.: Nobasil and the Thermal Conductivity Coefficient. In: Thermal Protection of Buildings, Vol. 9, No. 3, 2006, pp. 3-5

- [7] JANÁK, M.: Computer Simulation of Global Daylight and Luminance and Its Practical Applications. In: Heating, Ventilation, Installations (Vytápění, větrání, instalace), Society for Environmental Techniques, Vol.15, No.2, 2006, pp. 84-86 (in Slovak)
- [8] OLBRÍMEK, J.: Requirements for a Contact Insulation System from the Viewpoint of the Fire Safety of Buildings. In: Thermal Protection of Buildings, Vol. 9, No. 1, 2006, pp. 6-13
- [9] PAVČEKOVÁ, M., RYCHTÁRIKOVÁ, M., TOMAŠOVIČ, P.: The Effect of Detailed Modelling on Acoustic Simulation Results. In: Acoustic, Studio D – Acoustics, Ltd., Vol.6, 2006, pp. 12-15 (in Slovak)
- [10] PUŠKÁR, A., FUČILA, J.: Thermal and Technological Properties of Wooden Windows. In: Building Research Journal - Slovak Academic Press, Vol. 54, No. 2, 2006, pp. 133-141
- [11] PUŠKÁR, A.: Demand on Graduates Exceeds the Number of Students of the Department. In: Energo Eco, Vol. 1, No. 3, 2006, pp. 16-17
- [12] TKÁČ, J., ŠVITEL, J., VOŠTIAR, I., NAVRÁTIL, M., ŠTEFUCA, V., BUČKO, M., GEMEINER, P.: Gluconobacter in Biosensors: Applications of Whole Cells and Enzymes Isolated from Gluconobacter and Acetobacter to Biosensor Construction. In: Biotechnology Letters, Science and Technology Letters, Surrey, UK, 2006, pp. 2003-2010

IX.2 Books and Textbooks

- [1] ADAMSKÁ, G., ŠEBESTOVÁ, V., LOVICH, P., BOLLOVÁ, G., ELLINGEROVÁ, H.: Waterproofing of Foundations. Technical Parameters. Waterproof Constructions. Waterproofing Components. Construction Companies. Suppliers. Publisher: Eurostav, Bratislava, 2006 (in Slovak)
- [2] MIKULÁŠ, M., OLÁH, J., MIKULÁŠOVÁ, D.: Drawing of Building Constructions. Third Issue, Publisher: Jaga Group, v.o.s., Bratislava, 2006 (in Slovak)
- [3] OLÁH, J., ŠMEHYL, R., MIHÓK, M., KAJAN, I.: Defects of Roofs and Optimization of Their Repair. Publisher: Eurostav, Bratislava, 2006 (in Slovak)
- [4] ŽILINSKÝ, J.: Apartment Buildings. Refitting Building Constructions. Publisher: Antar, s.r.o., Bratislava, 2006 (in Slovak)
- [5] TOMAŠOVIČ, P., BEŤKO, B., PERÁČKOVÁ, J.: Noise and Thermal Protection of Buildings. First Issue, Publisher: STU Bratislava, 2006 (in Slovak)
- [6] ZAJAC, J., DLHÝ, D.: Doors and Gates. Publisher: STU Bratislava, 2006 (in Slovak)

IX.3 Conferences

- [1] BEŤKO, B.: Heat Loss Calculations in Building Renovation According to STN12831. In: Proceedings of the 7th International Conference on Defects and Refitting of Building Envelopes, Podbanské / Košice, March 2006, pp. 21-24 (in Slovak)
- [2] BIELEK, B., BIELEK, M.: Natural Regulated Window Ventilation of an Office Building from the Physical Cavity of a Double-Skin Facade. In: Proceedings of the International Scientific Buildings and Environment 2006 Conference – Ecological Quality of the Built Environment, Bratislava, November 2006, pp. 51-54

- [3] BIELEK, B., BIELEK, M.: Risks in the Design of Terraces above Flat Roofs of Apartment Buildings. In: Proceedings of the Roofs 2006 Conference, Bratislava, November, 2006, pp. 60-65 (in Slovak)
- [4] DLHÝ, D.: Acoustic Requirements and Criteria for Apartment Buildings. In: Proceedings of Building Constructions – Apartment Buildings 2006 Conference, Nitra, April 2006, pp. 18-23 (in Slovak)
- [5] DLHÝ, D.: The Effect of the Composition of Wooden Doors on Their Soundproof Properties. In: Proceedings of the 2nd International Material - Acoustics - Place 2006 Symposium, Zvolen, September 2006, pp. 55-59 (in Slovak)
- [6] DRŽKA, M.: Analysis of Reasons for Plinth Wall Defects in a Family House. In: Proceedings of the 30th International Scientific Conference of Departments and Institutes of Building Constructions. Lednice / Brno, Czech Republic, September, 2006, Brno, pp. 32-37 (in Slovak)
- [7] FUČILA, J.: Energy Certification of Buildings – Tasks of the SKSI. In: Proceedings of the International Scientific Buildings and Environment 2006 Conference – Ecological Quality of the Built Environment, Bratislava, November 2006, pp. 18-21 (in Slovak)
- [8] GIECIOVÁ, M.: Selected Problems of Equalizing Stairs. In: Proceedings of the 30th International Scientific Conference of Departments and Institutes of Building Constructions. Lednice / Brno, Czech Republic, September, 2006, Brno, pp. 43-46 (in Slovak)
- [9] HRAŠKA, J.: The Right to Daylight and Sunshine in Urban Planning and Building Simulations. In: Proceedings of the 4th national IBPSA-CZ Simulation of Buildings and Environmental Techniques 2006 Conference, Prague, Czech Republic, November, 2006, pp. 49-54 (in Slovak)
- [10] HRAŠKA, J.: The Right to Daylight and Sunshine Versus the Right to a Building. In: Proceedings of the International Scientific Buildings and Environment 2006 Conference – Ecological Quality of the Built Environment, Bratislava, November 2006, pp. 47-50 (in Slovak)
- [11] HRAŠKA, J.: Revised Standard Requirements for Apartment Buildings. In: Proceedings of the Building Constructions – Apartment Buildings 2006 Conference, Nitra, April 2006, pp. 5-9 (in Slovak)
- [12] HRAŠKA, J.: Systems for the Complex Evaluation of the Ecological Quality of Buildings. In: Proceedings of the 14th International Heating 2006 Conference, Tatranské Matliare, Slovakia, March 6-10, 2006, pp. 579-584 (in Slovak)
- [13] CHMÚRNY, I.: Energy Certification of Buildings. In: Proceedings of the 4th International Facility Management 2006 Conference, Bratislava, September 2006, pp. 78-81 (in Slovak)
- [14] CHMÚRNY, I.: Energy and Ecological Evaluation of Buildings According to Existing Legislation. In: Proceedings of the International Scientific Buildings and Environment 2006 Conference – Ecological Quality of the Built Environment, Bratislava, November 2006, pp. 14-17 (in Slovak)
- [15] CHMÚRNY, I.: Energy Performance of Residential Buildings in Slovakia. In: Renovation of User and Energy Properties of Buildings. In: Proceedings of the 2nd International Visegrad Engineering Conference, Topoľčianky, October 2006, pp. 56-57

- [16] JAMNICKÝ, M.: CAD Systems and Building Simulations. In: Proceedings of the 4th national IBPSA-CZ Simulation of Buildings and Environmental Techniques 2006 Conference, Prague, Czech Republic, November, 2006, pp. 35-38 (in Slovak)
- [17] JAMNICKÝ, M.: Daylight as an Integral Part of a Building Environment. In: Proceedings of the International Scientific Buildings and Environment 2006 Conference – Ecological Quality of the Built Environment, Bratislava, Slovakia, November 2006, pp. 87-90 (in Slovak)
- [18] JANÁK, M., BUDAY, P.: Modelling the Smoke and Heat Removal in Case of Fire. In: Proceedings of the 10th International Ventilation and Air Conditioning 2006 Conference, Štrbské Pleso, June 2006, pp. 127-135 (in Slovak)
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