

DEPARTMENT OF PHYSICS

Head of the Department:
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I. STAFF

Professors

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II. EQUIPMENT

II.1 Teaching and Research Laboratories

Basic Physics Laboratory
Thermophysical Properties Laboratory

II.2 Special Measuring Instruments and Computers

HP 3497 - Data Acquisition/Control Unit, set of devices for measuring current, voltage, frequency, strain, etc.

HP 3421A Data Acquisition/Control Unit

III. TEACHING

III.1 Graduate Study

Subject	Semester	Hours Per Week		Lecturer
		Lectures	Seminars	
Physics I	1	2	2	J. Zámečník
Physics I	2	2	2	F. Čulík
Physics I	2	2	2	J. Veselský
Physics I	2	2	2	I. Baník
Physics I	2	2	2	J. Lukovičová
Physics II	2	2	2	J. Zámečník
Physics II	3	2	2	F. Čulík
Physics II	3	2	2	J. Veselský
Physics II	3	2	2	I. Baník
Physics II	3	2	2	J. Lukovičová
Physics III	8	2	2	J. Veselský

III.2 Postgraduate Study

Subject	Semester	Hours Per Semester	Lecturer
Physical Principles of Measurements	1	30	I. Baník
			J. Veselský
Special Aspects of Physics I	1	28	J. Zámečník
Special Aspects of Physics II	2	28	J. Zámečník
Special Aspects of Physics	1	28	I. Baník
			J. Lukovičová
			J. Veselský
Modeling of Transport Phenomena	1	28	J. Zámečník
			J. Lukovičová
Physical Fields, Waves	1	28	F. Čulík
			J. Veselský
			J. Zámečník

IV. RESEARCH TARGETS

- Measuring and testing of materials and constructions
- Teaching Physics

V. RESEARCH PROJECTS

- Transfer of Heat Through Granular and Porous Materials. Grant No. 1/8334/01 (2001-2003, Veselský J.)

VI. COOPERATION

VI.1 Cooperation in Slovakia

1. Faculty of Electrical Engineering and Information Technology, STU, Bratislava
2. Faculty of Chemical Technology, STU, Bratislava
3. Matej Bel University, Banská Bystrica
4. Faculty of Mathematics and Physics, UK, Bratislava
5. Methodical Centre, Bratislava
6. Methodical Centre, Banská Bystrica

VI.2 International cooperation

1. Faculty of Civil Engineering, Czech Technical University, Prague, Czech Republic
2. Faculty of Civil Engineering, Technical University, Brno, Czech Republic
3. University of Technology, Esslingen, Germany
4. Politechnika Opole, Poland

VI.2.1 Visitors to the Department

- Prof. J. Toman, CTU Prague, Czech Republic
- Assoc. Prof. RNDr. Z. Chobola, TU Brno, Czech Republic
- Assoc. Prof. P. Schauer, TU Brno, Czech Republic
- Ing. L. Pazdera, TU Brno, Czech Republic
- Prof. J. Wyrwal, Politechnika Opole, Poland
- Assoc. Prof. Andrzej Wawrzynek, MSc, PhD, DSc, Silesian University of Technology, Gliwice, Poland
- R Walton, BSc, Med, PhD, Sheffield Hallam University

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

- Assoc. Prof. J. Lukovičová, TU Brno, Czech Republic
- Assoc. Prof. J. Lukovičová, CTU Prague, Czech Republic
- Assoc. Prof. J. Veselský, Assoc. Prof. I. Baník, Mgr. M. Kvasnicová, RNDr. Alena Palacková, TU, Brno

IX. PUBLICATIONS

IX.1. Journals

- [1] LUKOVIČOVÁ, J.- ZÁMEČNÍK, J.: Inverse Problem in Simultaneous Measurement of Temperature-Dependent Thermal Conductivity and Heat Capacity in Porous Materials. In: Slovak Journal of Civil Engineering Vol. VIII. 2000, No. 1 - 2, pp. 26-31.

IX.2. Books and textbooks

- [1] ZÁMEČNÍK, J.: Compendium of Physics. Ed. SPN Bratislava 2001 (in Slovak)

- [2] HOLÁ, O., VESELSKÝ, J., BANÍK, I., et al.: Handbook of Physics for Entrance Examination to STU Bratislava. Ed. STU Bratislava 2001, 69 pp. (in Slovak)

IX.3. Conference papers

- [1] VESELSKÝ, J.: Thermal Properties of Sand Versus Temperature. In: PAZDERA, L., KOŘENSKÁ, M. Research Activities of the Physics Departments of Civil Engineering Faculties in the Czech and Slovak Republics. Brno: Technical University of Brno, 2001. pp. 7-10. ISBN 80-7204-201-7. (1)
- [2] YANETKA, I.: On Relativistic Wave Functions for the Double Delta-Function Potential. In: PAZDERA, L. and KOŘENSKÁ, M. Proceedings of International Workshop on Research Activities of the Physics Departments of Civil Engineering Faculties in the Czech and Slovak Republics. Křižánky 2001. Brno. Technical University of Brno, Faculty of Civil Engineering, Department of Physics, 2001, pp. 11-14. ISBN 80-7204-201-7. (1)
- [3] YANETKA, I.: On Relativistic Transmissions Through the Asymmetrical Double Delta-Function Potential. I. Mathematical Presentation. In: PAZDERA, L. and KOŘENSKÁ, M. Proceedings of International Workshop on Research Activities of Physics Departments of Civil Engineering Faculties in the Czech and Slovak Republics. Křižánky 2001. Brno. Technical University of Brno, Faculty of Civil Engineering, Department of Physics, 2001, pp. 15-18. ISBN 80-7204-201-7. (1)
- [4] YANETKA, I.: On Relativistic Transmissions Through the Asymmetrical Double Delta-Function Potential. I. Graphic Presentation. In: PAZDERA, L. and KOŘENSKÁ, M. Proceedings of International Workshop on Research Activities of Physics Departments of Civil Engineering Faculties in the Czech and Slovak Republics. Křižánky 2001. Brno. Technical University of Brno, Faculty of Civil Engineering, Department of Physics, 2001, pp. 19-22. ISBN 80-7204-201-7. (1)
- [5] BANÍK, R., BANÍK, I.: Some Interesting Experiments and Their Contribution to the Humanisation of the Teaching of Physics. In: Universitas Ostraviensis Acta Facultatis Rerum Naturalium, UO, Ostrava 2000, pp. 91-111. (0,5)
- [6] LUKOVIČOVÁ, J., VESELSKÝ, J.: Experimental Verification of Two Methods Solving Inverse Heat Conduction Problems. In: L. VOZÁR Thermophysics 2001, Proceedings of Meeting of the Thermophysical Society -Working Group of the Slovak Physic Society, October 23-25, 2001, Račkova Dolina (1)
- [7] ČULÍK, F.: Segregation of Boron in Iron. In: Proceedings of 12th DIDMATTECH . Nitra 2000, PF UKF Nitra 2000, pp. 36-39, (2001) (1)
- [8] BANÍK, I., BANÍK, R.: Three Optical Tricks. International Workshop on Ideas of Teachers in Physics VI. Olomouc (CR) 2001, pp. 159-162
- [9] BANÍK, I. BANÍK, R.:Wavelength of Light – Simple Measurement by CD. International Workshop on Ideas of Teachers in Physics V. Plzeň 2000. pp. 185-186
- [10] VESELSKÝ, J., VESELSKÁ, N.: Literacy in the Natural Sciences – a Part of Human Civilization. Proceedings of International Workshop on Physics, Prešov 2001.