

DEPARTMENT OF PHYSICS

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I. STAFF

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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

Isomet 2104 –Applied Precision

III. TEACHING

III.1 Graduate Study

Subject	Semester	Hours Per Week		Lecturer
		Lectures	Seminars	
Physics I	1	2	2	I. Baník
Physics I	2	2	2	I. Janetka
Physics I	2	2	2	J. Veselský
Physics I	2	3	2	I. Baník
Physics I	2	3	2	J. Lukovičová
Physics II	2	2	2	J. Lukovičová
Physics II	3	2	2	J. Sivý
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
Physics	2	2	2	A. Palacková

III.2 Postgraduate Study

Subject	Semester	Hours Per Semester	Lecturer
Physical Principles of Measurements	1	30	I. Baník J. Veselský
Special Aspects of Physics	1	28	I. Baník J. Lukovičová J. Veselský
Modelling of Transport Phenomena	1	28	J. Lukovičová
Physical Fields, Waves	1	28	J. Veselský

IV. RESEARCH TARGETS

- Measuring the Thermal Properties of Materials and Constructions
- Teaching Physics

V. RESEARCH PROJECTS

1. Transfer of Heat through Granular and Porous Materials. Grant No. 1/8334/01 (2001-2003, Veselský J.)
2. Untraditional Physics on the Web, Grant No. 3/1187/03 (Baník I.)

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
7. SAV – Institute of Measurement Science, Bratislava

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

1. Prof. J. Toman, CTU Prague, Czech Republic
2. Assoc. Prof. RNDr. Z. Chobola, TU Brno, Czech Republic
3. Assoc. Prof. P. Schauer, TU Brno, Czech Republic
4. Ing. L. Pazdera, TU Brno, Czech Republic
5. Prof. J. Wyrwal, Politechnika Opole, Poland
6. Assoc. Prof. Andrzej Wawrzynek, MSc, PhD, DSc, Silesian University of Technology, Gliwice, Poland

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

1. Assoc. Prof. RNDr. Ivan Baník, PhD, ESTEC Nordwick, The Netherlands
2. Assoc. Prof. RNDr. Ivan Baník, PhD, KDF MFF Prague, Czech Republic
3. Assoc. Prof. J. Lukovičová, CTU Prague, Czech Republic
4. Mgr. Peter Kleja CTU Prague, Czech Republic

IX. PUBLICATIONS

IX.2. Books and textbooks

- [1] VESELSKÝ, J.: Physics. Bratislava: STU, 2003, ISDN 80-227-1851-3

IX.3. Conferences

- [1] BANÍK, I: The Physical Properties of Non-Crystalline Semiconductors and the Barrier Model, Didmattech 2003, Olomouc, VOTOBIA, Olomouc, ISBN 80-7220-150-6
- [2] VESELSKÝ, J.: Improvement in the Calculation of the Specific Surface of Granular Materials. In NEVEDELOVÁ, M. Proceedings of International Workshop on Physical and

- Material Engineering 2003. Bratislava 2003. Slovak University of Technology, Faculty of Civil Engineering, Department of Physics. pp. 169-172. ISBN 80-227-1924-2
- [3] VESELSKÝ, J.: Volumetric Heat Capacity on Fine Silica Sand. In NEVEDELOVÁ, M. Proceedings of International Workshop on Physical and Material Engineering 2003. Bratislava 2003. Slovak University of Technology, Faculty of Civil Engineering, Department of Physics. pp. 189-192. ISBN 80-227-1924-2
- [4] BANÍK, I.: On the Optical Properties of Amorphous Semiconductors, Proceedings of the 9th APCOM International Workshop, Malá Lučivná, June 11-13, 2003, pp. 32-35, ISBN 80-8070-088-5
- [5] BANÍK, I.: Electroabsorption in Chalcogenide Glasses, In: Proceedings of International Workshop on Physical and Material Engineering 2003, September 3-5, 2003, Richňava, pp. 179-184, ISBN 80-227-1924-2
- [6] LUKOVIČOVÁ, J.: Estimation of Coupled Heat and Mass Transport Coefficients in Porous Media. In: Physical and Material Engineering 2003. STU Bratislava, 2003, pp. 193 - 196. ISBN 80-227-1924-2
- [7] HOLÚBEK, M.: Study of Surface Barrier Discharge and Monitoring the Erosion of a Generating Electrode. In NEVEDELOVÁ, M. Proceedings of International Workshop on Physical and Material Engineering 2003. Bratislava 2003. Slovak University of Technology, Faculty of Civil Engineering, Department of Physics. pp. 173-179, ISBN 80-227-1924-2.
- [8] BALAŽOVJECH. M.: Heating a Room. In NEVEDELOVÁ, M. Proceedings of International Workshop on Physical and Material Engineering 2003. Bratislava 2003. Slovak University of Technology, Faculty of Civil Engineering, Department of Physics. pp. 185-187. ISBN 80-227-1924-2.
- [9] BANÍK, I. – BANÍK, R.: The Interesting Electrolyse, In: Veletrh nápadu učitelu fyziky 7, Prague 2003, pp. 71-74, ISBN 80-7196-254-6
- [10] BANÍK, R. – BANÍK, I.: The Incentive to Perform Physical Experimental Tasks and Their Presentation. In: ACTA UNIVERSITIS MATTHIAE BELLI, FYZIKA VI/2003, Banská Bystrica 2003. pp. 5 – 29. ISBN 80-8055-869-8
- [11] NEVEDELOVA, M.: Non-Traditional Tasks in Physics, In: Veletrh nápadu učitelů fyziky 7, Prague 2002, pp. 96-98
- [12] NEVEDELOVA, M.: Actual State of the Subject of Physics, In: Didmattech, Olomouc 2003, VOTOBIA, ISBN 80-7220-150-6
- [13] NEVEDELOVA, M. – BANIK I.: Some Non-Traditional Pictorial Tasks in Mechanics, In: Šoltésove dni 2003, Bratislava, pp.10-13, ISBN 80-7164-373-4
- [14] LUKOVIČOVÁ, J. – PALACKOVÁ, A.: Estimation of Moisture Diffusivity by Temperature Response. In: Thermophysics 2003. SAV - USTAR, Bratislava, Kočovce 2003 pp. 103 - 108, ISBN 80-8050-603-6.
- [15] BOBIK, M.: Acoustic Look Like Factor Living Environment, Dom a byt, 6/2003, Bratislava