



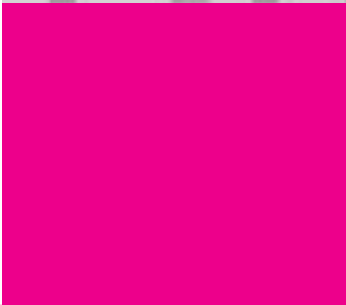
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T o m a s B a t a U n i v e r s i t y i n Z l í n



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**A n n u a l R e p o r t 2 0 0 3**

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This Annual Report records the activities of the Tomas Bata University in Zlín (TBU) for the third year of its existence. In the year 2003, there was a further increase in student numbers, and the choice of study programmes the University offers widened. By decision of the Academic Senate, a new component of the University was established on 1st September 2003, the University Institute.

One of our main goals in the year 2003 was to establish a sufficient material infrastructure for tuition and accommodation of the TBU students. Much attention was paid to further the improvement of the TBU information systems. Furthermore, the construction of the new University complex at the Jižní Svahy site in Zlín continued, preparing spaces for the tuition of 1,500 students, mainly at the Faculty of Technology.

During the period under evaluation, the preparations for the foundation of the fourth faculty, oriented on automatic control and applied informatics, continued.



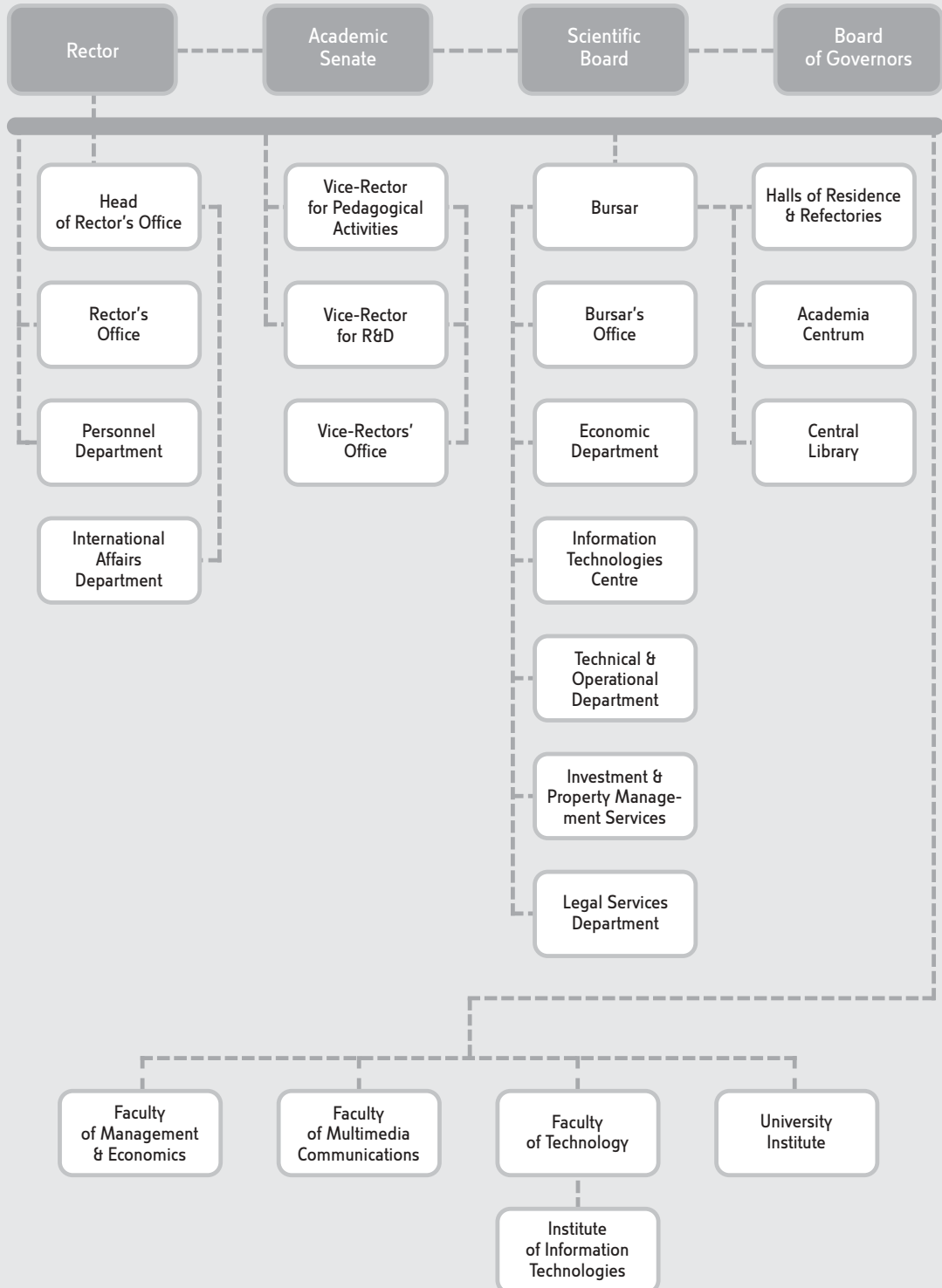
Prof. Ing. Petr Sába, CSc.  
Rector

## 1. Introduction



## 2. University Organizational Structure

### 2.1 Structure of the University and Its Components





## 3. Composition and Activities

### of the University Administrative Bodies

#### Rector

Prof. Ing. Petr SÁHA, CSc.

#### Vice-Rectors

Doc. PhDr. Ing. Aleš GREGAR, CSc., *Vice-Rector for Pedagogical Activities; Statutory Deputy*  
Prof. Ing. Vladimír BOBÁL, CSc., *Vice-Rector for R&D*

#### Bursar

RNDr. Alexander ČERNÝ

#### Head of Rector's Office

Ing. Andrea KADLČÍKOVÁ

## 3.1 TBU Board of Governors

#### Chairperson

Tomáš BAŤA, Dr. Hon.

*Bata Ltd., Toronto, Canada*

#### Deputy Chairpersons

PhDr. Zdeněk DOSTÁL  
Ing. Michaela ŠOJDROVÁ

*Mayor of Zlín 1998–2002*  
*Member of the Committee for Science, Education, Culture, Youth and Sports, Parliament of the Czech Republic, Chamber of Deputies*

#### Members

Ing. Eduard JANOTA  
Ing. Josef KUBÍČEK  
Irena ONDROVÁ  
Mgr. Václav PÍCL

*First Deputy Minister, Ministry of Finance, Czech Republic*  
*Bursar, Charles University, Prague*  
*Deputy Mayor, Statutory Town of Zlín*  
*First Deputy Minister, Ministry of Education, Youths, and Sports, Czech Republic*  
*Governor, Regional Authorities Zlín*  
*Deputy Minister, Ministry of Finance, Czech Republic*

František SLAVÍK

Doc. Ing. Jiří VOLF, CSc.

#### Secretary to the Board

Ing. Andrea KADLČÍKOVÁ

*Head of Rector's Office*

## 3.2 Scientific Board

#### Chairperson

Prof. Ing. Petr SÁHA, CSc.

*Rector, Tomas Bata University in Zlín*

#### External Members

Prof. Ing. Dr. Hon. Ferdinand DEVÍNSKY, DrSc.

Prof. Milan KNÍŽÁK, Dr.A.

Prof. Ing. Vladimír KUČERA, DrSc.

Prof. Ing. Miroslav LUDWIG, CSc.

*Comenius University, Bratislava, Faculty of Pharmacy*  
*General Manager, National Gallery in Prague*  
*Dean, Czech Technical University in Prague, Electro-technical Faculty*  
*Rector, University of Pardubice*  
*(Scientific Board member from 1. 4. 2003)*

Prof. RNDr. Milan MAREŠ, DrSc.

*Director, Academy of Sciences of the Czech Republic, Prague, Department of the Information Theory and Automation*

Doc. Ing. Štěpánka NOVÁKOVÁ, CSc.

*Vice-Rector, Prague University of Economics*  
*(Scientific Board member until 31.1. 2003)*

Ing. Pavel PRAVEC

Prof. Ing. Oldřich PYTELA, DrSc.

*Executive, Barum Continental, Otrokovice*  
*University of Pardubice*

Doc. Ing. Karel RAIS, CSc., MBA	<i>Vice-Rector, Technical University in Brno</i>
Ing. Jiří ROSENFELD, CSc.	<i>General Manager, Slováké strojírný, Uherský Brod</i>
Prof. PhDr. Lubomír SLAVÍČEK, CSc.	<i>Masaryk University in Brno, Faculty of Philosophy</i>
Prof. PhDr. Jan SEDLÁK, CSc.	<i>Dean, Technical University in Brno, Faculty of Fine Arts</i>
Doc. Ing. Karel ULBRICH, DrSc.	<i>Director, Academy of Sciences of the Czech Republic, Prague, Institute of Macromolecular Chemistry</i>
Prof. Ing. Petr VAVŘÍN, DrSc.	<i>Rector Emeritus, Technical University in Brno</i>
Prof. RNDr. Ing. Jan VRBKA, DrSc.	<i>Rector, Technical University in Brno</i>
Ing. Radomír ZBOŽÍNEK	<i>Executive and General Manager, East markets s. r. o., member of the division TA7MAC-ZPS Zlín</i>

### Internal Members

Prof. Ing. Vladimír BOBÁL, CSc.	<i>Vice-Rector</i>
Doc. RNDr. Jiří DOSTÁL, CSc.	<i>Vice-Dean, Faculty of Technology</i>
Prof. Ing. Petr DOSTÁL, CSc.	<i>Head of the Department of Control Theory, IIT, Faculty of Technology</i>
Doc. PhDr. Ing. Aleš GREGAR, CSc.	<i>Vice-Rector for Pedagogical Activities</i>
Prof. Ing. Antonín KLÁSEK, DrSc.	<i>Faculty of Technology</i>
Prof. Ing. Lubomír LAPČÍK, DrSc.	<i>Vice-Dean, Faculty of Technology</i>
Ing. Alena MACHÁČKOVÁ, CSc.	<i>Chairperson, TBU Academic Senate</i>
Doc. Jan MEISNER, MFA	<i>Head of the Design Studio, Faculty of Multimedia Communications</i>
Prof. Ing. Zdeněk MOLNÁR, CSc.	<i>Head of the Department of Informatics and Statistics, Faculty of Management and Economics</i>
Doc. PhDr. Vnislav NOVÁČEK, CSc.	<i>Dean, Faculty of Management and Economics</i>
Doc. PhDr. Dušan PAVLŮ, CSc.	<i>Faculty of Multimedia Communications</i>
Doc. Ing. Roman PROKOP, CSc.	<i>Vice-Dean, Faculty of Technology</i>
Prof. PhDr. Vlastimil ŠVEC, CSc.	<i>Head of the Department of Pedagogical Sciences, Faculty of Technology</i>
Prof. Ing. František TRNKA, CSc.	<i>Faculty of Management and Economics</i>
Prof. Ing. Vladimír VAŠEK, CSc.	<i>Head of the Institute of Information Technologies, Faculty of Technology</i>

In the year 2003, the Scientific Board convened twice. At its first sitting, held on 11<sup>th</sup> February 2003, the proceedings for Professorial nomination of Doc. Ing. Josef Šimoník, CSc. were conducted. By secret ballot, it was decided to forward the Professorial nomination application for further proceedings to the Czech Ministry of Education, Youth and Sports. The Scientific Board was also familiarised with the application for accreditation of Habilitation Proceedings in specialization Management and Enterprise Economics at the Faculty of Management and Economics, and expressed its agreement

with the submission of the accreditation application. At its meeting in February, the Scientific Board also discussed the application for accreditation of Bachelor's, Master's and follow-up Master's study programme in Chemistry and Food Technologies.

At the second sitting, which was held on 14<sup>th</sup> May 2003, the main issue was the updating of the Long-Term Aims and Objectives of TBU in Zlín for the academic year 2003/2004. Those responsible for the research plans presented the results of their research achieved in the year 2002.

## 3.3. Academic Senate

### Chairperson

Ing. Alena MACHÁČKOVÁ, CSc.

### Deputy Chairpersons

Ing. Pavel ROSMAN, Deputy Chairperson,  
*Chairperson of the Chamber of Academic Staff*  
Bc. Daniel REMEŠ, Deputy Chairperson,  
*Chairperson of the Chamber of Students*

### Academic Staff Members

Ing. Zuzana DOHNALOVÁ  
PhDr. Magda GREGAROVÁ  
Ing. Rahula JANIŠ, CSc.  
MgrA. Jana JANÍKOVÁ, ArtD.  
Ing. Vratislav KOZÁK, Ph.D.  
Mgr. Pavel KRUTIL  
PhDr. Ivan KULHÁNEK, CSc.  
Mgr. Zdeněk MELICHÁREK  
Doc. Dr. Ing. Vladimír PAVLÍNEK  
Ing. Tomáš SYSALA, Ph.D.



### Students

Ondřej CARDA

Ing. Petr FOLTÝN

Ing. Petr KUBÍČEK – *from 21. 10. 2003*

Ing. Jiří VERBERGER

Ing. Viktor VOLČÍK – *until 30. 9. 2003*

Bc. Michal ZÁVACKÝ

On 1<sup>st</sup> September 2003, a new University component was established as a result of the decision by the TBU Academic Senate, the University Institute.

In the year 2003, 11 regular and one extraordinary sitting of the TBU Academic Senate were held. At these sittings, the Academic Senate discussed and approved the Annual Report on TBU activities in 2002, the Annual Report on TBU Economics in 2002, the Updating of the Long-Term Aims and Objectives of TBU in Zlín for the period 2003/2004, the TBU Budgetary Provisions for 2003, and the TBU Budget for the year 2003.

The establishment of the new University component, as well as the experience from daily operations of the University, from study procedures, and AS TBU meetings, required amendments of the basic TBU internal regulations: the TBU Statute, the AS TBU Electoral and Procedural Regulations, and the TBU Study and Exam Regulations. The new texts of these regulations, after their approval by the AS TBU, were registered with the Ministry of Education, Youth, and Sports.

On 16<sup>th</sup> December 2003, the AS TBU announced elections to the AS TBU for the second term, 2004–2007.

## 3.4 Rector's Advisory Council

### Rector

Prof. Ing. Petr SÁHA, CSc.

### Vice-Rectors

Doc. PhDr. Ing. Aleš GREGAR, CSc., *Vice-Rector for Pedagogical Activities; Statutory Deputy*

Prof. Ing. Vladimír BOBÁL, CSc., *Vice-Rector for R&D*

### Bursar

RNDr. Alexander ČERNÝ

### Chairperson of the TBU Academic Senate

Ing. Alena MACHÁČKOVÁ, CSc.

### Deans

Doc. PhDr. Vnislav NOVÁČEK, CSc., *Faculty of Management and Economics*

Prof. Ing. Josef ŠIMONÍK, CSc., *Faculty of Technology*

Prof. Pavel ŠKARKA, MFA – *Faculty of Multimedia Communications*

### Head of Rector's Office

Ing. Andrea KADLČÍKOVÁ

## 3.5 Representatives to the Czech Council of Higher Education Institutions

Ing. Alena MACHÁČKOVÁ, CSc., *TBU Representative to the Board of Directors of the Council*

Prof. Ing. Jaroslav BALÁTĚ, DrSc., *TBU Representative to the Assembly of the Council*

Ing. Dalibor KUCHAR, *TBU Representative to the Student Chamber of the Council (until 21. 3. 2003)*

Ing. Markéta KOTASOVÁ, *TBU Representative to the Student Chamber of the Council (from 1. 4. 2003)*

Bc. Jan HANÁK, *TBU Representative to the Student Chamber of the Council (from 30. 9. 2003)*

## 4. Educational Activities

### 4.1 Study Programmes

In 2003, TBU provided full-time and combined studies in Bachelor's, Master's and Doctoral study programmes in natural sciences, technical sciences, social sciences, economy, pedagogy, and visual arts. The University offered a total of 52 study courses in 25 accredited study programmes. Most study programmes were accredited or reaccredited in accordance with the Bologna Declaration as a follow-up two- or three-level study for the Bachelor's, Master's and Doctoral Degree (3 + 2 + 3).



Numbers of Study Programmes and Courses at TBU

Table No. 1

Course Groups	Course Groups Codes	Study Programmes / Courses				Total No. of Study Progr./ Courses
		Bachelor's	Master's	Master's follow-up	Doctoral	
Natural Sciences	11-18	0/1		0/1		0/2
Technical Sciences	21-39	5/8	2/8	5/14	2/2	14/32
Agriculture, Forestry, and Veterin. Studies	41-43					
Health Care, Medical, and Pharm. Studies	51-53					
Social Sciences and Services	61, 65, 67, 71-74	1/1		1/1		2/2
Economics	62	2/6	1/1	2/4	1/1	6/12
Law and Public Administration	68					
Pedagogy and Social Care	75	1/1		0/1		1/2
Psychological Sciences	77					
Culture and Arts Studies	81, 82	1/1		1/1		2/2
<b>Total</b>	<b>11-82</b>	<b>10/18</b>	<b>3/9</b>	<b>9/22</b>	<b>3/3</b>	<b>25/52</b>

### 4.2 Study Programmes Guaranteed by TBU and Implemented by the Local Colleges

In order to expand the number of study places for applicants interested in the study of Economics, the following Bachelor's degree programmes are now offered by TBU in cooperation with the Tomas Bata Business Academy and Higher Professional School of Business in Zlín: Economics and Management, courses Marketing and Financial Management of Enterprises (full-time and combined study forms), and

Economic Policy and Administration, course in Public Economics and Administration (full-time study form).

Applicants interested in the course Shoemaking Technologies can apply for a full-time Bachelor's degree programme in Chemistry and Materials Technologies provided in cooperation with the Technical College (SPŠK) in Zlín.

### 4.3 Study Programmes Implemented Off the University Premises

The full-time Bachelor's studies in the programmes of Process Engineering and Engineering Informatics are taught at TBU off-site workplaces in Vsetín and Přerov. The study course Social Pedagogy of the Bachelor's study programme Pedagogy is taught in combined study form in cooperation with the Institute for Interdisciplinary Studies in Brno.



## 4.4 Use of the Credit System

At TBU, all study programmes use a unified credit system that is fully compatible with the European ECTS standard. The basic characteristics of the unified credit system are as follows:

- One credit represents 1/60th of the average annual student study load for the standard length of studies,
- Each subject is allocated a number of credits that reflect the relative degree of student study load required for the successful completion of a given subject,
- On successfully completing a course, a student obtains the number of credits allocated to the particular subject,

- The credits obtained within one study programme are added up,
- The number of credits obtained serves as a tool for checking progress in studies.

This credit system, together with students' good knowledge of languages, is considered one of the essential conditions for the University's entry into the European Student Mobility programme and into the European educational environment. In the course of the year 2003, the materials for issuing ECTS guide were prepared, so that in 2004 TBU can be listed among the universities open for students in the European educational environment.

## 4.5 Lifelong Learning Programme

In order to expand the possibilities for study at TBU, Lifelong Learning courses in accredited Bachelor's and Master's degree programmes in Economics and Management, and Economic Policy and Administration were opened in 2003. A total of 83 participants studied these study programmes. Within the frame of Lifelong Learning, the accredited course in Comple-

mentary Pedagogical Study is offered, which enables students to achieve pedagogical qualification for teaching specialized subjects. There were 86 participants in this programme. Furthermore, a number of short-term specialized courses for company employees and professionals were taught at TBU as a part of the Lifelong Learning programme.

Numbers of Lifelong Learning Programmes at TBU

Table No. 2

Course Groups	Course Group Codes	Accredited Lifelong Learning Study Programmes		Others	Total with Tuition Fee
		Free of Charge	Paid		
Natural Sciences	11-18				
Technical Sciences	21-39			1	1
Agriculture, Forestry, and Veterin. Studies	41-43				
Health Care, Medical, and Pharm. Studies	51-53				
Social Sciences and Services	61, 65, 67, 71-74			1	1
Economics	62		2		2
Law and Public Administration	68				
Pedagogy and Social Care	75		1		1
Psychological Sciences	77				
Culture and Arts Studies	81, 82				
<b>Total</b>	<b>11-82</b>		<b>3</b>	<b>2</b>	<b>5</b>

## 4.6 University of the Third Age

The Lifelong Learning programme also includes the programmes of the University of the Third Age, designed for senior citizens. In 2003, four-semester studies at the University of the Third Age continued in two study programmes: Social Sciences and Technology and Economics. The course consists of two-

hour lectures that take place regularly once in a fortnight. There are a total of 195 students in both programmes of the University of the Third Age. In order to meet the demand and satisfy the great interest, this type of study was also opened for 52 students at the off-site workplace in Vsetín.

## 4.7 Applicant Interest in Studying at TBU

Table No. 3

Course Groups	Course Groups Codes	Number of				
		Applications Received <sup>1)</sup>	Applicants <sup>2)</sup>	Accepted <sup>3)</sup>	Newly Accepted <sup>4)</sup>	Registered for Study <sup>5)</sup>
Natural Sciences	11-18					
Technical Sciences	21-39	1,513	1,513	1,084	1,084	817
Agriculture, Forestry, and Veterin. Studies	41-43					
Health Care, Medical, and Pharm. Studies	51-53					
Social Sciences and Services	61, 65, 67, 71-74	349	349	189	189	189
Economics	62	2,849	2,849	917	917	750
Law and Public Administration	68					
Pedagogy and Social Care	75	1,191	1,191	505	505	381
Psychological Sciences	77					
Culture and Arts Studies	81, 82	512	512	89	89	89
<b>Total</b>	<b>11-82</b>	<b>6,414</b>	<b>6,414</b>	<b>2,784</b>	<b>2,784</b>	<b>2,226</b>

### Commentary:

<sup>1)</sup> Total number of applications received.

<sup>2)</sup> Number of applicants for study. The figures express the number of individuals; the study courses totals include multiple applications (i.e. students applying for more than one course).

<sup>3)</sup> Number of applications positively responded to.

<sup>4)</sup> Number of applicants accepted for study. The figures express the total number of individuals; the study courses totals include applicants accepted to more than one courses.

<sup>5)</sup> Number of students who actually registered to start their studies.

The Faculties' aim is to accept the top-quality applicants. In order to achieve this objective, the University maintains direct contacts with selected secondary schools, regularly organizes Open Door Days, attends the tertiary education trade fair Gaudeamus. In Octo-

ber 2003, TBU participated in this fair for the third time as an independent university. The TBU presentation was evaluated as highly beneficial for increasing the awareness of the students about the University, and for gaining a number of applicants for study at TBU.

## 4.8 Numbers of TBU Students

Table No. 4

Course Groups	Course Groups Codes	Students in Study Programmes				Students Total
		Bachelor's	Master's	Mast. follow-up	Doctoral	
Natural Sciences	11-18	467		10		477
Technical Sciences	21-39	954*	189	47	142	1,332
Agriculture, Forestry, and Veterin. Studies	41-43					
Health Care, Medical, and Pharm. Studies	51-53					
Social Sciences and Services	61, 65, 67, 71-74	285		151		436
Economics	62	1,945*	31	645	80	2,701
Law and Public Administration	68					
Pedagogy and Social Care	75	613**				613
Psychological Sciences	77					
Culture and Arts Studies	81, 82	148		52		200
<b>Total</b>	<b>11-82</b>	<b>4,412</b>	<b>220</b>	<b>905</b>	<b>222</b>	<b>5,759</b>

\* including the students at Higher Professional School of Business in Zlín

\*\* including the students at the Institute of Interdisciplinary Studies in Brno



Numbers of Foreign Students, Including Students from Slovakia

Table No. 5

Course Groups	Course Groups Codes	Students in Study Programmes			Total
		Bachelor's	Master's	Doctoral	
Natural Sciences	11-18				
Technical Sciences	21-39	40	12	11	63
Agriculture, Forestry, and Veterin. Studies	41-43				
Health Care, Medical, and Pharm. Studies	51-53				
Social Sciences and Services	61, 65, 67, 71-74	18	2		20
Economics	62	75	19		94
Law and Public Administration	68				
Pedagogy and Social Care	75				
Psychological Sciences	77				
Culture and Arts Studies	81, 82	4	2		6
<b>Total</b>	<b>11-82</b>	<b>137</b>	<b>35</b>	<b>11</b>	<b>183</b>

## 4.9 Numbers of Graduates from TBU

Table No. 6

Course Groups	Course Groups Codes	Students in Study Programmes				Students Total
		Bachelor's	Master's	Mast. follow-up	Doctoral	
Natural Sciences	11-18					
Technical Sciences	21-39	31	117	17	9	174
Agriculture, Forestry, and Veterin. Studies	41-43					
Health Care, Medical, and Pharm. Studies	51-53					
Social Sciences and Services	61, 65, 67, 71-74	44		43		87
Economics	62	260		179	1	440
Law and Public Administration	68					
Pedagogy and Social Care	75					
Psychological Sciences	77					
Culture and Arts Studies	81, 82	22		15		37
<b>Total</b>	<b>11-82</b>	<b>357</b>	<b>117</b>	<b>254</b>	<b>10</b>	<b>738</b>



## 4.10 Innovation of the Current Study Programmes

In the course of the year 2003, the current study programmes were innovated, and the courses offered were expanded for both full-time and combined study forms to meet the labour market requirements. In the study programme Chemistry and Materials Technology, the study course in Footwear and Leather

Goods Technologies was opened for students from Vietnam. Contacts were established with universities in Hanoi and Saigon for the future cooperation in Master's, and possibly Doctoral study programmes and in R&D activities oriented on selected areas of leather and plastics processing technologies.

## 4.11 New Bachelor's, Master's, and Doctoral Study Programmes

In 2003, the following Bachelor's degree programmes were newly accredited and opened:

The newly accredited courses at the Faculty of Technologies within the study programme Chemistry and Food Technologies, and the study programme Economics and Management with a course in Economics and Nutrition Hygiene, which was also accredited as a Master's degree programme.

The newly accredited Master's degree programme is Chemistry and Food Technologies with courses in Technology, Hygiene, and Economics of Food Production, and Technology and Economics of Fat, Detergent and Cosmetics. Another accredited study course is the Master's degree course Teaching IT at Elementary and

Secondary Schools, within the study programme Engineering Informatics.

At the Faculty of Management, and Economics the Master's degree course Finance and the Bachelor's degree course in Public Economics and Administration within the study programme Economic Policy and Administration were accredited.

In cooperation with the Higher School for Health Care Studies in Zlín, the University prepares for accreditation the study programme Health Care, with courses General Nursing and Midwifery. In cooperation with the Film School in Zlín, the accreditation is being prepared for the course in Animation within the study programme Fine Arts. Accreditation for the study course in Business English is currently being prepared.

## 4.12 New Tendencies in Preparation of Pedagogical Workers for All Educational Levels

New tendencies in preparation of elementary and especially secondary school teachers belong to the priorities of the TBU Long-Term Aims and Objectives which is guaranteed by the Department of Pedagogical Studies. In the year 2003, this priority is realized in two areas – pedagogical and scientific.

### 1. *Pedagogy – new study courses for the education of teachers of specialized subjects*

The University gained the accreditation for a full-time follow-up Master's degree course Teaching IT at Elementary and Secondary Schools. This study course differs from the “traditional” study courses in three main features: the interdisciplinary approach to subjects, the close connection between the theory and the practice, and the emphasis on the formation of the future teachers' personality, which is based on their

own self-knowledge and self-reflection..

### 2. *Research and Development - research into pedagogical knowledge*

One of the world tendencies in the research into teacher education is the study of implicit knowledge, i.e. of the process in which a teacher-trainee becomes a teacher. The TBU Department of Pedagogical Studies belongs to the workplaces which not only acknowledge this practice, but also includes it into its pedagogical and scientific activities, namely into preparation of teachers of specialized subjects. The evidence of this approach is the three-year grant project from the Grant Agency of the Czech Republic entitled Implicit Pedagogical Knowledge and the Possibilities for Self-Regulation of its Development (project No. 406/02/1247, head researcher: Prof. V. Švec)





### 4.13 Evaluation of the Study Courses Offered with the View of the Graduates' Success in the Labour Market

The structure of the course offered in full-time and combined form as well as in the Lifelong learning form at TBU in Zlín respond to the needs of the labour market. The information on graduates' success in finding a job confirm that the graduates find appropriate jobs in companies and institutions in the region as well as in the whole Czech Republic.

### 4.14 New Forms of Study

E-learning - see Chapter 5.3.

### 4.15 Numbers of Unsuccessful Students at TBU

Table No. 7

Course Groups	Course Groups Codes	Unsuccessful Students in Study Programmes				Total
		Bachelor's	Master's	Master's follow-up	Doctoral	
Natural Sciences	11-18	75				75
Technical Sciences	21-39	232	7	6	7	252
Agriculture, Forestry, and Veterin. Studies	41-43					
Health Care, Medical, and Pharm. Studies	51-53					
Social Sciences and Services	61, 65, 67, 71-74	6				6
Economics	62	157		8		165
Law and Public Administration	68					
Pedagogy and Social Care	75	7				7
Psychological Sciences	77					
Culture and Arts Studies	81, 82	7		5		12
<b>Total</b>	<b>11-82</b>	<b>484</b>	<b>7</b>	<b>19</b>	<b>7</b>	<b>517</b>

Note: figures as on 31. 10. 2003 include all forms of study and all students, including foreign students

The progress in studies is checked by the means of number of credits obtained by students in individual years of study. The TBU Study and Exam Regulations set the exact conditions for continuing in or successful completion of one's studies.

### 4.16 Study Opportunities for Disabled Students

In the TBU buildings U2 and U4, the necessary technical conditions are created so that disabled students can study there. The TBU Faculty of Technology is currently preparing conditions for accredita-

tion of the study programme Information Technologies for Aurally Impaired and Physically Disabled, within the study programme in Engineering Informatics.

### 4.17 "Joint Degrees" - Study Programmes Taught within the Framework of the International Universities Consortium

Negotiations between the TBU Faculty of Management and Economics and the Huddersfield University Business School (HUBS) in Great Britain are underway for a joint study programme that would enable TBU students after two years at our Univer-

sity to continue their third year at HUBS in Great Britain. Students would complete their studies at this university by a Bachelor's exam, which would entitle them to the degree BA (Hons) European Business.

## 5. Information and Communication Technologies

### 5.1 Newly Built-In Elements of the Information Infrastructure

TBU continuously emphasized the development of information and communications technologies. The Information Technologies Centre has the overall responsibility for this task.

The buildings U1, U2, U3, U4, U6, U7, and now also U12 are interconnected with fibre-optic cables with a capacity of 12 fibres MM (telecommunications network) and 8 fibres SM (data network). In the building U12, structured cabling was created in areas designated for accommodation of academic employees. Fibre optic cabling for the new building U5 was laid, and the termination of the fibres will be done in the final recon-

struction stage in 2004. The building U 11 is yet to be connected to the TBU backbone computer network.

In 2003, 1,070 computers were connected to the University computer network, out of which over 400 computers were connected in computer laboratories and on-line study rooms. In the rented spaces, which are connected to the University computer network through a wireless microwave connection, a further 40 computers for the employees are installed. The University Halls of Residence have a capacity of 350 connection ports, and currently almost 200 students connect their personal computers and laptops to the network.

Numbers of Computers Connected in Each TBU Building

Table No. 8

Buildings	Study Rooms, Classrooms Teaching Laboratories	Employees
U1 (FT)	28	202
U2 (rektorát, FT, FaME)	168	241
U3 (IIT, FT)	36	40
U4 (FMK, ÚK, menza)	145	63
U10 (FT, FaME, FMK)	28	120

Numbers of Computers Connected at the Halls of Residence

Table No. 9

Buildings (Halls of Residence)	Capacity	PCs Connected	Employees
U6 (Antonínova)	235	142	3
U2 (Štefánikova)	115	56	6
U3 (TGM)	0	0	4

In the building U2, the computer laboratory with 13 PCs was modernized, and 48 computers were bought and prepared for a new study room in the building U5. TBU in Zlín uses several interconnected information systems:

- The information system IS EkonFiS for economics management
- The studies administration information system IS Student
- The University web site
- The library information system T Series
- The publication activities record system for keeping records of publication activities OBD<sup>PRO</sup>
- The student and employee ID card system
- The student and employee access system for buildings, offices, and class-rooms

- The catering management system IS Menza 2000
- The accommodation management system AT - Koleje
- The legal database and information system Lex-DATA

The accessibility of these internal information systems is given by access rights granted to individual users of these databases.

Data in the modules of IS EkonFiS is processed centrally in various departments of the Rectorate. Other users (chief officers, secretaries of Faculties, economists, heads of departments, members of Academic Senates) are granted access to appropriate sections of individual modules or selected packages, and can only read the data.

The process of migration of the economics information system, which started in the year 2002, was suc-

successfully completed in 2003. While selecting and implementing the new system, TBU cooperated with several other public universities. In February, invitation for bids were sent out to several companies interested in the public tender competition, and at the end of April, the committee for review and evaluation of the offers chose the information system SAP. From June to August, the participating universities worked together to create the pilot version of the information system SAP for public universities, and in September, the system implementation started at TBU. In December, the preparations for launching the productive operation of the information system SAP were completed. The implementation of the economics information system at TBU was financially supported from two projects within the framework of the Transformation and Development Programmes for 2003: *The Renewal and Further Development of University Information System - Information System for Financial and Economics Management* (3.9 mil. CZK), and *The Support of a Co-ordinated Approach by Universities to the Implementation and Maintenance of University Information System for Economics management* (4.412 mil. CZK).

Data in IS Student is processed by the Student Services Departments personnel at individual Faculties; limited access is granted also to the secretaries of departments and institutes.

Related to this, during 2003 preparations for the transition to a new information system for studies administration took place. TBU joined another seven public universities that use the information system IS/STAG developed at the University of West Bohemia in Plzeň. Towards the end of the year, after careful preparations, the implementation process was launched, aimed at full exploitation of the new system starting in the academic year 2004/2005. The implementation of this project was financially supported by a project within the framework of the Transformation and Development programmes for 2003, *The Renewal and Further Development of University Information System - Information System for Studies Administration* (750 thousand CZK), and the University contributed significantly from its own resources (1.3 mil. CZK).

The University Web site provides information for the general public, as well as the internal information to students and employees of the University. In the year 2003, new design of the on-line presentation of the University was created, introducing a new graphic design (in line with the University's unified visual style) and new content. The implementation started in the autumn of the year 2003, and will continue in 2004, when it should be completed.



The students' and employees' identification cards can be used in the Central Library, for access to certain University buildings, selected classrooms, offices, and workplaces, as well as for the cashless payment for meals in the Refectory.

The OBD<sup>PRO</sup> application (Personal Bibliographic Database) records the publication activities at TBU, and transferring the data on publication activities to the central databases CEP, CEZ, and RIV.

The T Series catalogue of the library information system is made accessible on the Internet pages through the TinWeb application, and on mobile telephones through the WAP technology.

In May 2003, the University Halls of Residence and Refectories introduced a new information system for student accommodation management, and an information system for catering for students and employees.

The legal database and information system LexDATA is used on a large scale, and the University renews the multilicense for this system yearly.

For reliable operation of the new University information systems (i.e. the information system for economics management and the information system for studies

administration), three powerful Hewlett-Packard servers were purchased (two database and one applications server), including a disc array and external back-up storage system. Another server was purchased for the new University online presentation.

Within the framework of the project of the Cesnet's Fund for Development *Introducing IP telephony at the Tomas*

*Bata University in Zlín*, the equipment was purchased towards the end of the year 2003 for the creation of the connection of the TBU switchboard to the IP telephony network operated within the CESNET2 network. Trial operation will start in January 2004.

A new NOD23 antivirus system was purchased for the TBU central mail server, and installed.

## 5.2 End-User Connection Speed

The data networks in the buildings U1, U2, U3, U4, U6, U7, and U12 are interconnected by cabling with data-transfer speed of 1 Gbit/s. The buildings U10 and U13 are connected to the backbone network via the building U2 through a wireless microwave connection with the data-transfer speed of 11 Mbit/s.

Since February 2003, the University computer network has been connected to the academic computer network CESNET2 with a connection speed of 1 Gbit/s. This new connection is carried out by fibre-optic cables via the Palacky University in Olomouc.

TBU is yet to be connected to European projects of high-speed networks and Grids.



## 5.3 E-learning at TBU - Current Status and Plans for Development

In the course of the year 2003, special attention was also paid at TBU to the development of e-learning as a support of distance studies in the following areas:

- At FaME, technical conditions (HW, SW) were created for working in the EDEN virtual learning environment, and the training of selected academic employees who create tuition programmes continued,
- Teaching and study materials for distance studies in the Bachelor's study programme Economics and

Management in the virtual learning environment EDEN were created.

In 2003, the second conference on "E-learning in Tertiary Education" took place, and was attended with the participation of specialist from the Czech Republic and Slovakia. The conference brought some new ideas for further development of e-learning at TBU in the field of preparation of e-courses and distance teaching, and also contributed to cooperation between Czech and Slovak universities.

## 6. TBU Central Library; Library and Information Services

### Address:

Tomas Bata University in Zlín  
Central Library  
Štefánikova 2431, 760 01 Zlín  
tel.: 576 034 818  
www.knihovna.utb.cz

### Library Location Symbol: ZLD002

In the register of the Ministry of Culture of the Czech Republic, the Central Library of the Tomas Bata University in Zlín has registration number 4739/2003 and is listed as a specialized library. It meets all requirements for a public institution as defined in the Act on Libraries and on Conditions for the Provision of Public Libraries and Information Services, Law No. 257/2001.



## 6.1 Extending the Library Stocks

Table No. 10

	2001	2002	2003
Library Units	30,297	33,280	39,379
Number of Subscribed Periodicals	178	189	212
Number of Copies of Subscribed Periodicals	275	302	345

In the Library stocks, there are mainly books on subjects studied at TBU. The Library stocks include stocks of several specialized regional libraries that were closed. In 2003, the TBU Central Library in Zlín took over 1,400 volumes from the Scientific Library in the Centre of Library and Information Services in Vyškov (from the Military University of Ground Forces), especially books specializing in food industry. The Library stock contains books, journals, and special documents – in traditional as well as electronic form.

In 2003, the Library purchased resources for 2,379,640 CZK (excluding electronic resources). There are 23,674 volumes for loan, and it subscribes 212 periodicals (in 345 copies altogether).

### Sponsors in 2003:

The Zlín Municipal Cultural Fund (purchase of library stock – 200,000 CZK)  
The Tomas Bata Foundation in Zlín (purchase of foreign journals – 150,000 CZK)  
AION (electronic portal Coto.Je – for the period of 10 years)

## 6.2 Accessibility of Electronic Information Resources (Internet - Intranet)

The TBU Central Library in Zlín enables its users access to 25 databases, out of which 24 are accessible through the computer network. The Library has an

electronic union catalogue, which is a part of T Series union catalogue (i.e. electronic system used also by other libraries)

## Access to Electronic Resources in 2003

### Electronic Resources Accessible within the Whole University

#### Bibliographical Databases

- ISI Web of Knowledge
- former Web of Science(WoS) and Journal Citation Reports (JCR)
- Journal Citation Reports (JCR)
- Dialog
- IEEE Computer Society Digital Library
- Compendex
- Metadex
- Iconda

#### Reference Books and Dictionaries

- CHEMnetBase (Chapman and Hall, CRC Press)
- Combined Chemical Dictionary
- Dictionary of Commonly Cited Compounds
- The Handbook of Chemistry and Physics
- Polymers - A Properly Database

- Properties of Organic Compounds
- Knowel
- Literature Online
- LexData
- Coto.Je

#### Electronic Journals

- EBSCO
- ProQuest 5000
- PCI - Periodicals Contents Index Web
- Oxford Reference Online (new) - within the framework of ProQuest and EBSCO
- Ulrich's International Periodicals Directory (new) - within the framework of ProQuest and EBSCO
- ACS (American Chemical Society)
- ScienceDirect (Elsevier)
- LinkSpringer (Springer Verlag)

### Electronic Resources Accessible Only in the Library

- Anopress (TAM - TAM)
- ČTK
- ČNB
- OVEL
- iHned
- GAPIS

### Electronic Resources Accessible Outside the Library

#### FT

- CrossFire (Beilstein)

#### FaME

- Company Monitor

## Access to Electronic Information Resources in 2003

Table No. 11

Resource	Number of Searches and Enquiries
WoK (Web of Knowledge)	6,134
former WoS and JCR (Web of Science and Journal Citation Reports)	
Dialog	925
EBSCO	1,957
ProQuest 5000 + PCI	2,347



## 6.3 Library and Information Services

Table No. 12

Acquisitions in 2003	6,099
Library Stocks Total	39,379
Number of Subscribed Periodicals:	
- physical	212
- electronic (estimation)	9,095
Opening hours per week <sup>1)</sup>	library - 43 hours/week study rooms - 55 hours/week
Number of Loans <sup>2)</sup>	33,417
Number of Users <sup>3)</sup>	6,967
Number of Study Places	133
Number of Volumes in Open-Shelf Stock	23,674

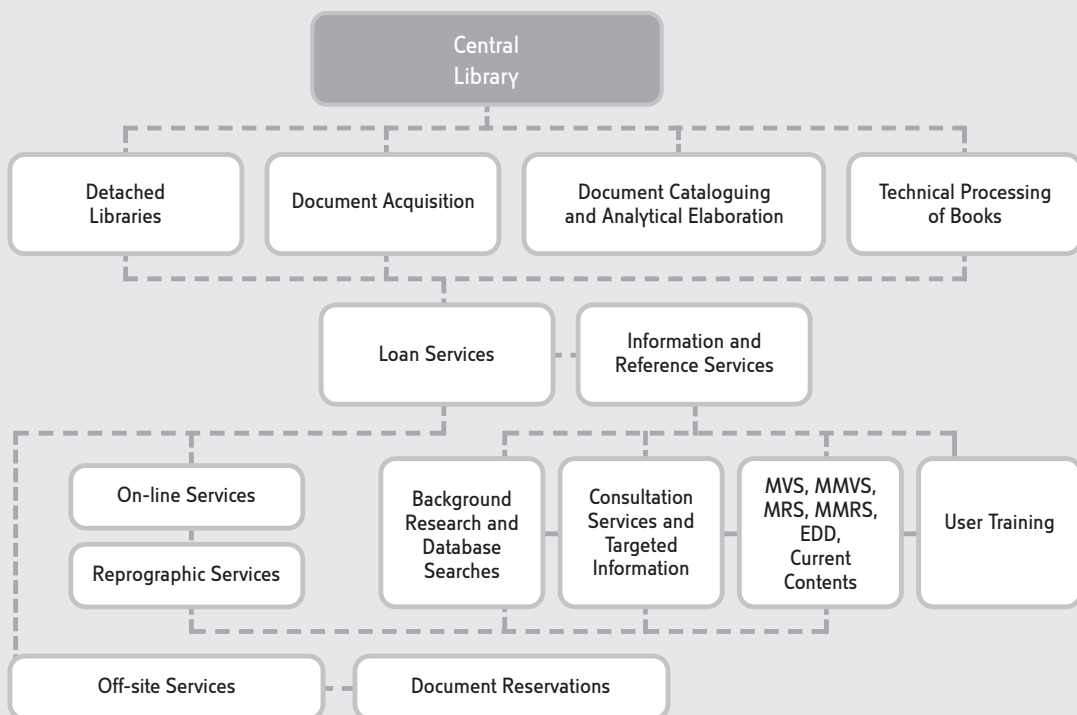
**Notes:**

<sup>1)</sup> I.e. the opening hours of the workplace that is open the longest. The opening hours of individual workplaces are not added up.

<sup>2)</sup> Including prolongation.

<sup>3)</sup> A "User" is a person who used the loan services of the library at least once in the current calendar year.

### TBU Central Library Structure



**Notes:** MVS - Inter-Library Loan Services, MMVS - International Inter-Library Loan Services, MRS - Inter-Library Reprographic Services, MMRS - International Inter-Library Reprographic Services, EDD - Electronic Document Delivery

The Library provides public library and information services as defined in § 4, article 2 of the Act on Libraries. The basic services are free of charge.

The services are available to registered users, libraries and institutions.

The Central Library is open for the public in given opening hours.

It serves as a TBU information workplace subordinated to the Rectorate, and ensures access to the union catalogue, and to selected electronic information resources in study rooms.

**It offers its users the following services - loans** (off-site loans from the open-shelf stock or archive), **reservation of documents** (for off-site loans), on-site loans (self-service in study rooms), **circulation services, inter-library services** (**active** - in-country, international, reprographic, electronic - services of the Library to other libraries and institutions, **passive** - in-country, international, reprographic, electronic - mediating **documents** that are not available from the Library's own stock, **active supplies of copies of documents** (to other libraries), **passive supplies of copies of docu-**

**ments** (to our users according to their categorisation), supplies of journal contexts (**current services**), **mediating searched** from other libraries (from databases, that the Library does not have access to), **informational, bibliographical, advisory, consultation, and reference services** (e.g. information on library stocks, databases, library services, conditions for using the services, ways of obtaining information, bibliographical and factual information, consultations on diploma theses and for Doctoral degree students, information of resources location and availability, verification and precising of quotes), **selective information, information in spoken or written form, other services** - reprographic - **photocopying, networked printing, scanner** - self-service, electronic services - electronic communication with users, **electronic supplies of documents** - through the Virtual Polytechnic Library (STK), National Library of the Czech Republic, **access to the Internet and electronic information resources, on-line services** - tracking loans, prolonging loans, book reservation - without the need for the user's personal visit to the Library).

Numbers of Registered Users and Loans

Table No. 13

	2001	2002	2003
Registered Users	607	4,936	6,967
Loans	20,375	28,673	28,979

Equipment of the Library and Study Rooms

Table No. 14

Number of study places in study rooms and reading rooms	133
Number of PC stations - Total	125
Out of which - Central Library and Study Rooms	100
- Remote Study Room in Mostní Street	25
- Access to the OPAC Catalogue	4
- Catalogue available from the www interface	102
- Access to the Internet and electronic resources	102
Number of Library units in the open-shelf stock	23,674

## 6.4 Electronic Services for Universities

The most modern information technologies and standards are used for work in the Library. The Library users can use PCs, work with traditional documents, multimedia (CDs, etc.), electronic resources of biblio-

graphical and factual information, full-text and electronic books (reference resources, dictionaries, etc.) They can also use two digital multifunctional devices (photocopier, networked printer, scanner).





## Use of Modern Technologies

Table No. 15

<b>Digital Multifunctional Devices</b>	
Photocopying	87,186
Networked Printer	120,975
<b>On-line Services</b>	
Reservations	677
Prolongation	4,438

### The Remote Study Room in Mostní Street

In 2003, a new study room was opened in the building on Mostní Street. There are 24 computer stations and one service workplace. The users can work

with electronic resources and computer programmes that they might need for their studies at TBU (e.g. Word, Excel, PowerPoint, email, Internet, etc.).

## Inter-Library Loan Services

Table No. 16

<b>Inter-Library Loan Services</b>	
active (including EDD)	730
passive (including EDD)	657
international (passive)	73
<b>Searches</b>	48
	15

The Library also provides electronic services. That includes sending information in electronic format, providing selective information, delivering documents in electronic form (the Library cooperates with the National Library of the Czech Republic

and the State Technical Library.) There are also on-line services for the Library users, and such services as orders for stock purchases (books and periodicals), or applications for inter-library loan service.

## Numbers of Electronic Journals in the TBU Library in 2003

Table No. 17

Resource	Number
EBSCO	3,248
Proquest	4,697
IEEE	22
Springer Link	485
ScienceDirect	422
Am. Chemical Society	35
ihned	5
iStrategie	1
Anopress	180
<b>Total</b>	<b>9,095</b>

Note.: the data was taken over from the web sites of the producers.

## 6.5 User Training

In 2003, the Library offered its users IT training in several categories:

- Familiarization with the Library and its services – for new users, 1st year students,
- Workshops on information searching for the final year students,
- Workshops on Library services, information resources searching, and searches in full-text resources.

The Library prepared a total of 41 educational events and consultations for its users. For instance, in cooperation with AIP s. r. o. (with RNDr. I. Kadleček)

and the Charles University in Prague, UISK (PhDr. R. Papík, Ph.D.) a workshop on the use of electronic information resources was organized.

The Library also took part in the activities connected with the campaign entitled “March – the Month of Internet (It is all at your disposal and you may not even know it)”.

The Central Library also offered cooperation to the individual Faculties and Departments in the area of exploitation of the available information resources, and this offer was published on the Library web page.

## 6.6 Library Staff - Qualifications and Lifelong Learning

Structure of the TBU Central Library Staff

Table No. 18

The Library Staff	Number
Total	8
University Education	4
out of which Librarian University Education	2
Secondary Education	4
out of which Librarian Secondary Education	2

The Library Staff - Age Structure	Number
Under 29	2
30-39	0
40-49	3
50-59	3
Over 60	0

### Lifelong Learning

#### Training Sessions and Workshops

- AACR2 (Anglo-American Cataloguing Rules)
- Authorities (Author caption in a document description)
- EZB (Elektronische Zeitschriftenbibliothek)
- MVS (Inter-Library Loan Services, Resources for checking the availability of the international inter-library loan service)

#### Excursion

- Vienna City Library

#### Librarian Events

- Annual Conference of the University Libraries Association
- University Libraries Club SKIP
- Committees Meeting - EIZ (Electronic Information Resources), Committee for IT Education and Computer Literacy at Universities, the Committee for University Libraries
- Infórum 2003
- Libraries Automation
- Libraries of Today 2003
- Meeting of T-Series Users
- Working Meeting of University Libraries

## 6.7 Other Activities

### **The TBU Central Library**

- Is a member of the University Libraries Association,
- Is a member of the Association of Library and Information Workers (SKIP),
- Works in the University Libraries Club SKIP,
- Has its own representative on Universities Board – the Committee for Universities Libraries,
- Works on the University Libraries Committee for Electronic Information Resources,
- Has a representative on the Committee for IT Education and Computer Literacy at Universities, the University Libraries Association

### **Cooperation with Other Libraries:**

The Central Library shares electronic resources and services with other universities and uses modern technologies and standards for processing documents. Since May 2003, when cataloguing and recataloguing, the Library uses the possibility to share on-line cataloguing information with other libraries, especially the National Library of the Czech Republic.

### **The Library cooperates with other libraries in the following fields:**

- VISK (Public Information Services of Libraries)
- VISK 8 (Sharing Electronic Resources – databases ČTK, Anopress – TAM-TAM)

- VISK 9 (National Authority Captions, geographical names)
- VPK (Virtual Polytechnic Library – union catalogue, electronic delivery of documents)
- EDD (Electronic Delivery of Documents from the National Library of the Czech Republic)
- Union Catalogue of the National Library of the Czech Republic – acquisitions of foreign documents and journals
- Union Catalogue of the National Medical Library – acquisitions in the journal stock
- Union Catalogue of the Moravian Library – acquisitions in the journal stock

### **Novelties in the Area of Cooperation and Electronization**

In the year 2003, the project “VISK 9 – National Authorities” continued – on-line sharing and delivering of documents (from May 2003).

Cooperation on creation and use of national authorities collection focused mainly on the author captions (TBU – 33 authors).

There was a change to the processing of documents, which was made more efficient by the introduction of new information technologies (sharing on-line cataloguing data).

New elements: in document processing Konspekt method was introduced, work on authority caption started with geographical names.



### 7.1 Areas of Research and Development

At present, TBU has one research centre at FT, the Polymer Centre, which concentrates on research into polymeric materials and processes. Research activities at TBU are oriented towards basic and applied research.

In order to increase the effectiveness of R&D activities, TBU has set itself the following priorities:

- To increase the volume of R&D activities and number of R&D workers,
- To achieve higher productivity in R&D activities,
- To support R&D activities within the framework of Doctoral study programmes,

- To support international scientific cooperation,
- To enlist scientific workers from abroad,
- To strengthen cooperation with other universities and the Academy of Sciences of the Czech Republic,
- To support cooperation with non-academic enterprises and institutions,
- To improve the working and social conditions for Doctoral students and R&D workers.

Research and development activities are organized at individual TBU Faculties. The basic areas of research at FT are given in Chapters 11.1.5 and 11.1.6, those at FaME are presented in Chapters 11.2.5 a 11.2.6.

### 7.2 Focus of Research Plans

The following research plans of the Ministry of Education, Youth and Sports were dealt with at TBU:

#### At the Faculty of Technology:

1. *New Technologies and Ecological Trends in Processing of Natural Polymers, MSM 265200014.*

Focused on the development and optimisation of recycling technologies. This research involves recognition of the mechanisms of manufacturing reactions, the quantitative description of the proposed mechanisms, and their experimental verification. Designs of technological equipment and design of the control algorithms are based on the theory of process engineering, the kinetics of heterogeneous processes, and the theory of transport phenomena. The developed recycling technologies are verified in production plants in the Czech Republic and EU countries within the 5th EU framework for sustainable growth.

2. *Progressive Polymeric Systems and Technologies, MSM 265200015.*

The largest TBU research project, which involves workers of five FT Departments. Within the framework of the project, these workers solve numerous subprojects oriented towards the main research areas. The most significant of these sub-projects are investigations into bio- and nano-technologies, and electrical, rheological, processing, surface, and molecular properties of polymeric systems.

3. *Automation of Technologies and Manufacturing Processes, MSM 281100001.*

This research plan deals with monitoring, identification, and control of technological processes in two key areas. In the theoretical part, attention is

paid to the theory of higher forms of control systems, i.e. adaptive, robust, and optimal control algorithms, including the applications of the principles of artificial intelligence. In the applications area, the research is aimed at the implementation and verification of the designed control algorithms under real conditions, and research and development of means of automation technology and informatics.

4. *Minimisation of the Influences of Industrial Wastes upon the Environment, MSM 281100002.*

This research plan deals with biological degradation of plastic materials modified with waste biopolymers - i.e. the aerobic and anaerobic disintegration of films made of mixtures of PVAL, protein / hydrolysate, plasticized starch, lignin, etc; neutralization of chlorinated ethylene by microbial cultures, both defined and industrial; neutralization of hazardous industrial wastes both solid and liquid through the stabilization/solidification process.

#### At the Faculty of Management and Economics:

1. *Research into Competitive Abilities of Czech Manufacturing Enterprises*

This research plan focuses on the formulation of the theoretical principles and starting-points for the conception of the economic policy of the future Euro-region in the context of the globalization of the Czech economy. Furthermore, it includes development of methodological materials for implementing programmes for enterprise processes modernization leading to increase in the competitive abilities of the enterprises.

## TBU Involvement in Research Projects

Table No. 19

Title of the Research Plan	Financial Resources Allocated in 2003 (in thousand CZK)
New Technologies and Ecological Trends in Processing of Natural Polymers	4,058
Progressive Polymeric Systems and Technologies	12,983
Automation of Manufacturing Processes and Technologies	1,930
Minimisation of the Influences of Industrial Wastes upon the Environment	2,521
Research into Competitive Abilities of Czech Manufacturing Enterprises	3,203
<b>Total sum from public resources</b>	<b>24,695</b>

## 7.3 Unique R&D Workplace in the Czech Republic - the Polymer Centre

The Polymer Centre (CPM) is a research unit of the Faculty of Technology. Its main area of research is basic, applied and industrial research into the engineering aspects of technologies and materials based on polymer composites. The areas concerned are mainly: rheology of polymer melts and suspensions, electrorheology, unstable polymer flows, molecular electronics, thermodynamics of polymer systems, physical ageing, highly filled polymers, perlocation phenomena, biodegradable polymers, interphase phenomena and smart behaviour of polymeric materials.

The outcomes of the research are used primarily in rubber and plastics industries, automobile and textile industries, in medicine, agriculture and in the production of packaging materials.

In the area of education, the attention is focused on Master's and Doctoral degree programmes.

### The Greatest Success

- The discovery of the positive and negative electro-rheological effect in selected polymer systems.

### Cooperation with Foreign Institutions

- East China University of Science and Technology, Shanghai, China
- Chalmers University of Technology, Göteborg, Sweden
- Indian Institute of Technology, New Delhi, India
- Instituto Politécnico Nacional, Mexico, Mexico
- National Institute of Advanced Industrial Science

and Technology, Macromolecular Technology Research Center, Tsukuba, Japan

- Institute of Radioengineering and Electronics, Moscow, Russian Federation
- Sardar Patel Renewable Energy Research Institute, Vallabh Vidyanagar, Gujarat, India
- Sichuan University, The State Key Laboratory of Polymer Materials Engineering, Sichuan, China
- University of Bradford, Bradford, Great Britain
- University of Ljubljana, Ljubljana, Slovenia
- University of Waterloo, Ontario, Canada

### Cooperation with Enterprises

- Aliachem, a.s., Praha, ČR - division Fatra Napajedla, division Technoplast Chropyně, Czech Republic
- Compuplast Int., Zlín, Czech Republic
- Cutisin, a.s., Slavkov u Brna, Czech Republic
- Hexagon Holding, Copenhagen, Denmark
- Kastek UB, spol. s.r.o., Uherský Brod, Czech Republic
- SANDVIK Coromant AB, Sweden
- 3M, Diegem, Belgium

### Conferences

In cooperation with Hexagon Holding, Copenhagen, Denmark, the following conferences were organized:

- Medical Plastics 2003, 27.-30. October 2003, Copenhagen, Denmark.
- Pharmaceutical and Medical Packaging 2003, 13.-14. May 2003, Copenhagen, Denmark.

## 7.4 Significant Cooperation in R&D with Czech Enterprises and Institutions

1. On the basis of a contract on mutual cooperation concluded between the Academy of Science of the Czech Republic and TBU in the year 2002, a joint laboratory was established where the Department of Macromolecular Chemistry (ÚMCH) of AS CR together with the FT Department of Polymeric Materials and Technologies study non-compatible polymer systems and filled polymer systems. The scientific workers of the ÚMCH take part in the pedagogical process and function as supervisors and educators in the Doctoral study programme Technology of Macromolecular Substances at FT.
2. Prof. Vladimír Bobál and Prof. Petr Dostál from the FT Institute of Information Technologies participate in a long-term cooperation with the Institute of Information Theory and Automation (ÚTIA) of the Academy of Sciences of the Czech Republic in the area of adaptive control systems and use of polynomial methods in automatic control. In the course of the year 2003, they solved the joint project of the Grant Agency of the Czech Republic No. GA 102/02/0204 *Design of Intelligent Adaptive Control Systems*. The collective of authors elaborated manuscripts of two scientific monographs: *Digital Self-Tuning Controllers: Algorithms, Implementation and Application* was handed to the publishing house Springer-Verlag London Ltd. at the end of the year 2003, the other, *Self-Adjusting regulators: Connected, Delta, and Multivariable Algorithms* is being prepared for publishing in the publishing house VUTIUM, of the Technical University in Brno.
3. RNDr. Vojtěch Křesálek from the Institute of Information Technologies participates in the project of the Grant Agency of the Czech Republic No. GA202/03/0789 *New Materials for Optoelectronics*, together with the Institute of Physics of the Academy of Sciences of the Czech Republic. The objective of the project is the study of transport properties of materials on the basis of nano-crystalline silicon for prospective preparation of optoelectronic materials.
4. Prof. Vladimír Vašek participates in the project of the Grant Agency of the Czech Republic No. GA 102/03/0625 *Syndicated Approach to the Development of Experimental Models*. The head researcher is the Institute of Computer Science of the Academy of Sciences of the Czech Republic. Five universities participating in the research established a syndicate with the aim to create a collection of quality laboratory tasks for teaching subjects focused on control of technological processes. The researchers at FT are working on the application of control algorithms of real systems with dead time.
5. The Polymer Centre cooperates with the Institute of Hydrodynamics of the Academy of Sciences of the Czech Republic on the grant project of the Grant Agency of the Czech Republic No. IAA2060202 *The Effect of Pressure on Rheological Properties of Polymer Melts*. The aim of the project is to analyse pressure and its influence on changes of viscosity in polymer melts, with the use of an especially designed chamber connected to a high-pressure capillary rheometer.

### Cooperation with Specialized Research Institutions:

- Research Institute of Bast Fibres, spol. s r. o., Šumperk
- Czech Geological Institute, Prague
- Institute for Testing and Certification, a. s., Zlín
- Polymer Institute, spol. s r. o., Brno
- SPUR, a. s., Zlín
- THEMIS, a. s., Rožnov pod Radhoštěm

## 7.5 Significant International Cooperation in Research and Development

In 2003, FT participated in solving the project within the 5<sup>th</sup> EU Framework Programme (FP) *Development of Recycling Technologies for Processing of Raw Leather in Tanning Industry (Radical Environmentally Sustainable Tannery Operation by Resource Management RESTORM)*.

The Department of Production Engineering cooperated on the EU-supported project System Analysis for the Production of Technical Rubber Goods and Tires (SATPRO) within the Programme for Competitive and Sustainable Growth.

FT also takes part in 9 projects within the programme

Kontakt: *Study of Enhancement of Compatibilization of Polyolefine Based Materials through Radiation Processing, Electrorheology of Polymer Suspensions with Controlled Conductivity, Polymer Structure and Morphology, The Effect of Fine-Particle Fillers on Polymer System Properties, Study into Conductive Polyaniline Nanoparticles Prepared under Ultrasonic Field, Physical Aging of Polymers, The Study of Sorption/Desorption of Model Colloid Particles on the Liquid/Solid Interface by Impinging Jet Method, Efficiency Improvement of Power Injection Moulding (PIM) Technology via Modelling of the Flow Process, Syntheses and Reactions of Quinoline Derivatives.*

**TBU Involvement in Projects Financed from Other Czech and Foreign Resources**
**Table No. 20**

Programme Code	Title of the Project for Research and Development Support	Number of Projects	Resources (in thousand CZK)
5. FP	RESTORM	1	726
5. FP	SATPRO	1	645
EP	USA/EP	1	170
<b>Total</b>		<b>3</b>	<b>1,541</b>

Within the framework of Postdoctoral study stays at Politecnico di Milano, the Faculty of Technology took part in the 5<sup>th</sup> EU Framework Programme *Nonlinear and Adaptive Control*.  
Departments of TBU Faculties cooperate with over sixty foreign partners.

## 7.6 Important Projects Financed from Specific Government Budget Resources

**TBU Involvement in Projects Financed from Specific Resources**
**Table No. 21**

Programme Code	Title of the Project for Research and Development Support	Number of Projects	Resources (in thousand CZK)
IA	Grants for distinctly scientific research from the Academy of Sciences of the Czech Republic	1	263
GA	Standard Grants from the Grant Agency of the Czech Republic	9	5,366
	Standard Grants from the Grant Agency of the Czech Republic (co-researchers)	3	643
GP	Postdoctoral grants from the Grant Agency of the Czech Republic	9	1,846
GD	Doctoral Grants from the Grant Agency of the Czech Republic (co-researchers)	1	123
ME	KONTAKT Ministry of Education, Youth and Sports	5	1,315
	- through AIP	2	76
FD	Grants from the Ministry of Trade and Industry	5	1,178
OE	Eureka (co-researchers)	1	200
<b>Total</b>		<b>36</b>	<b>11,010</b>

## 7.7 Use of Institutional Support for Specific Research

In 2003, the Czech Ministry of Education, Youth and Sports allocated TBU 11.115mil CZK in institutional financial resources for specific research. Out of this sum, 1mil CZK was allocated to the University's Internal Fund for the Development of Science, Research, and Arts. The remainder of the resources for specific research was divided among the Faculties in the following way: FT received 8.603mil CZK, FaME received 1.512 mil CZK.

The distribution of institutional resources for specific research followed these rules: resources are divided equally among the Faculty Dean, grant

researcher, and support of Doctoral study programmes.

The resources were used to support the cooperation between Master's and Doctoral degree students on solving research plans and projects, to support joint research carried out by students and academic employees, to support the research carried out by students in the course of elaborating their Bachelor's and Master's dissertations, and of other research in which students take part.

Namely, the resources were used for scholarships, purchase of materials, including professional books and journals, reimbursement of travel expenses, etc.

## 8. University Employees

### 8.1 Age Structure of Academic Employees

Table No. 22

Age	Pedagogical Employees					R&D Workers
	Professors	Assoc. Professors	Senior Lecturers	Assistant Lecturers	Lecturers	
Under 29	0	0	6	38	0	0
30-39	0	2	26	18	0	2
40-49	1	5	28	3	0	1
50-59	10	14	36	0	0	0
60-69	17	18	17	0	0	1
Over 70	6	4	0	0	0	1

### 8.2 Numbers of Internal and External Employees

Table No. 23

Employees	Pedagogical Employees					R&D Workers	Other Employees
	Professors	Assoc. Profes.	Senior Lecturers	Assist. Lecturers	Lecturers		
Internal							
- Individuals	34	43	113	59	0	5	243
- Ratio	28.2	38.17	106,58	55.93	0	4.38	242.8
External							
- Individuals	7	17	47	56	3	0	367
- Ratio	2.3	8.4	21.9	17.2	0.9	0	Not available

In 2003, the Faculty of Technology had 136 academic employees, out of which 22 were Professors, 23 Associate Professors, 61 Senior Lecturers, 25 Assistant Lecturers, and 5 R&D workers. At the Faculty of Management and Economics, there were 86 academic employees, out of which 11 were Pro-

fessors, 15 Associate Professors, 35 Senior Lecturers, and 25 Assistant Lecturers. At the Faculty of Multimedia Communications, there were 32 academic employees, out of which 1 was a Professor, 5 Associate Professors, 17 Senior Lecturers, and 9 Assistant Lecturers.

#### Expected Development of the TBU Personnel Structure

Table No. 24

Year	Pedagogical Employees					R&D Workers	Other Employees
	Professors	Assoc. Profes.	Senior Lecturers	Assist. Lecturers	Lecturers		
2004	34	43	113	59	0	5	243
2005	35	53	123	65	0	10	255

The basic University's strategy is to employ workers with the appropriate qualifications for the given position. Knowledge of English and the ability to communicate in the international environment are essential prerequisites for employment.





## 8.3 Further Education of Academic Employees

Further education of academic employees is dealt with in greater detail in the individual plans for the TBU academic employees development. Apart from the specifically focused professional development of each employee, three common areas for professional improvement are emphasised:

- language skills with emphasis on the ability to use English as the second communication language at TBU,
- IT Skills with emphasis on the utmost exploitation of the possibilities offered by PCs, internet, intranet and information databases for pedagogical as well as R&D activities,
- exploitation of multimedia for communication support and increasing the efficiency of the educational process in both full-time and combined study forms.

## 8.4 Habilitation and Professorial Nomination Procedures

### Habilitation Proceedings at TBU

Table No. 25a

Name	Home Institution	Specialist Subject	Habilitation Thesis Title	Nominated at
Doc. Ing. Martin Zatloukal, Ph.D.	TBU, Faculty of Technology	Technology of Macro- molecular Substances	Novel aspects of characterization and modelling of viscoelastic flows in polymer processing	TBU, Faculty of Technology
Doc. Ing. Antonín Sikora, CSc.	Academy of Sciences of the Czech Republic Institute of Macromolecular Chemistry	Technology of Macro- molecular Substances	Contribution to the study of phase balance in polymer systems	TBU, Faculty of Technology

### Habilitation Proceedings at Other Institutions

Table No. 25b

Name	Home Institution	Specialist Subject	Habilitation Thesis Title	Nominated at
Doc. RNDr. Petr Ponížil, Ph.D.	TBU, Faculty of Technology	Material Science and Engineering	Spatial Tessela- tion: Classifica- tion and Uti- lization in Mate- rial Engineering	Faculty of Mechanical Engineering, Technical Uni- versity in Brno
Doc. Ing. Dagmar Janáčková, CSc.	TBU, Faculty of Technology	Machinery and Process Control	Modelling of Extraction Processes	Technical Univer- sity Ostrava, Fac- ulty of Mechan- ical Engineering

### Professorial Nominations at TBU

Table No. 25c

Name	Home Institution	Specialist Subject	Nominated at
Prof. Ing. Josef Šimonik, CSc.	TBU, Faculty of Technology	Technology of Macromolecular Substances	TBU, Faculty of Technology

### Professorial Nominations at Other Institutions

Table No. 25d

Name	Home Institution	Specialist Subject	Nominated at
Prof. Ing. Lubomír Lapčík, Ph.D.	TBU, Faculty of Technology	Material Science and Engineering	Technical University in Brno
Prof. Ing. Vladimír Vašek, CSc.	TBU, Faculty of Technology	Machinery and Process Control	VŠB - Technical University Ostrava



## 9. Evaluation of TBU Activities

On 1<sup>st</sup> September 2003, the Department of Internal Audit, headed by the Rector, was established at the University.

In the year 2003, the newly established Department dealt with the following tasks:

- Evaluation of the utilization of the classroom capacities
- Audit of work contracts which ensure external teachers
- Checking of adherence to the time table
- Analysis of the requirements of the individual TBU components for the personnel development in 2004
- Preparation of the materials for examination from the Ministry of Education, Youth and Sports. Audit of the purposeful and efficient use of the funds from the Government budget for research and development at TBU started on 26<sup>th</sup> November 2003, and has continued in 2004.

### 9.1 System of the Education Quality Evaluation at the University

As a newly established university, TBU is undergoing a period of large increases in the numbers of students, academic employees, and study programmes offered. In order to continuously increase the quality of education

and research work, TBU pays a lot of attention to both external and internal quality evaluation of the achievements.

### 9.2 Results of the External and Internal Evaluation of the University Activities

All Faculties, FT, FaME, and FMK, successfully passed the external evaluation of the education quality, carried out by the Accreditation Committee, in relation to the assessment of the Faculties' applications for accreditation and re-accreditation of all study programmes. In 2003, FaME obtained the accreditation for Habilitation Proceedings in specialization Management and Enterprise Economics.

The external evaluation of the R&D activities of the Faculties took place with regard to the Opponent Proceedings to the evaluation of the conclusions of research projects of the Ministry of Education, Youth and Sports, research projects of the Grant Agency of the Czech Republic and other grant agencies, and of the tasks resolved within the framework of the Universities Development Fund. All these evaluations were carried out in front of committees nominated by external institutions and in the presence of representatives of external institutions. The evaluations of the resolved projects were very good. The findings from these eval-

uations were discussed with the Deans of each individual Faculty.

The external evaluation of the quality of education also includes evaluation of the results of theses defences and final state exams in Bachelor's, Master's, and Doctoral degree programmes. Members or chairpersons of the committees for the final state exams are representatives of other universities and prominent specialists.

Individual evaluation of academic employees was carried out on a regular basis with the focus on:

- evaluation of pedagogical work (including the pedagogues' evaluation by students),
- evaluation of publication activities,
- development of talented students,
- involvement for the benefit of the Faculty and University,
- evaluation by the employee's superior.

The findings from the evaluation are used for yearly updating of individual plans for personal development of academic employees.

### 9.3 Education Quality Evaluation by Students

Evaluation by students was ensured in cooperation with representatives of the Student Union. The findings from this evaluation serve as feedback for improvement of the quality of courses, and of the pedagogical performance of individual academic employees.

## 10. International Cooperation in Educational Activities

### 10.1 Direct International Cooperation in Educational Activities

Table No. 26

Partner University	Town	Country	Date of Signature	Validity
University of Craiova	Craiova	Romania	5. 12. 2001	3 years
Trent University	Peterborough	Canada	25. 2. 2002	3 years
East China University of Science and Technology	Shanghai	China	1. 8. 2002	5 years
Pedagogical State University	Byisk	Russia	20. 11. 2002	unlimited
Trenčianska univerzita A. Dubčeka v Trenčíně	Trenčín	Slovakia	29. 1. 2003	unlimited
Institute of Northern Development	Tyumen	Russia	16. 3. 2003	5 years
Gorno-Altai State University	Gorno Altai	Russia	6. 10. 2003	unlimited

Apart from the concluded contracts, there are also a number of agreements regarding the direct cooperation between the TBU Faculties and other universities within the Socrates/Erasmus programme.

### 10.2 TBU Participation in International Programmes

The International Affairs Department, founded in January 2003, provides advisory services to TBU students and employees, who want to gain some experience at an educational institution abroad. It coordinates and analyses the possibilities for international cooperation, and presents the results of the analyses to the TBU entities.

The International Affairs Department also ensures the Socrates/Erasmus programme, which enabled 20 students to study for a period of time at a foreign university. The students spent abroad a total of 83 months. This programme is used also by TBU pedagogues for developing international cooperation in educational activities and support of the use of multimedia in education, for transfer of the European standards ECTS to our University, and for the preparation of study programmes in English. Last year, a total of 16 pedagogues travelled abroad within the Socrates/Erasmus programme, and spent a total of 31 weeks outside the country. The University's foreign partners in the Socrates/Erasmus programme are: Fachhochschule Köln, Pohjois-Savo Polytechnic Kuopio, Chalmers University of Technology Gothenburg, Politecnico di Milano, University of Applied Sciences Steyr, Haute Ecole Hemes Liège, University of Algarve, University of Gent, University of Bradford, University of Aveiro, University of Lapland Rovaniemi, Österreichisches Forschungsinstitut Wien, and University of Strathclyde.

TBU also takes an active part in other European programmes, such as CEEPUS or Leonardo da Vinci. It also has the opportunity for short-term study stays based on inter-governmental contracts mediated by the Academic Information Agency of the House for International Services of the Czech Ministry of Education, Youth and Sports, DAAD and Aktion.

In 2003, TBU employees undertook 381 travels abroad (FT 252, FaME 71, FMK 28) in order to participate in conferences, for consultations, or for short-term work-stays. International cooperation in educational activities also focuses



on increasing the numbers of foreign students coming to study at TBU. A contract was concluded with the Vietnamese association for promotion and support of education, which arranged the study at TBU for 18 students from Vietnam.

Within the framework of the Socrates/Erasmus programme, two projects in which TBU participates were accepted: European Resources for Intercultural Communication (FT – IIT), and Consumer Citizenship Network (FaME – ÚPI).



## EU Programmes for Education and Preparation for Future Employment

Table No. 27

Programme	Socrates-Erasmus	Comenius	Socrates			Leonardo
			Grundtvig	Lingua	Minerva	
No. of projects	3	0	0	0	0	2
No. of students sent abroad	20	0	0	0	0	0
No. of foreign students received at TBU	2	0	0	0	0	5
No. of academics sent abroad	17	0	0	0	0	2
No. of foreign academics received at TBU	1	0	0	0	0	0

## Other Programmes

Table No. 28

Programme	Ceepus	Aktion	Ostatní
No. of projects	1	1	0
No. of students sent abroad	10	4	1
No. of foreign students received at TBU	6	4	1
No. of academics sent abroad	4	4	1
No. of foreign academics received at TBU	3	4	0

## 10.3 International Mobility of Students and Academic Employees

Table No. 29

Programme	Government Scholarship	Direct Inter-University Cooperation	
		In Europe	Outside Europe
No. of students sent abroad	0	29	3
No. of foreign students received at TBU	2	2	18
No. of academics sent abroad	0	70	16
No. of foreign academics received at TBU	0	2	0

**Commentary:** TBU has yet to resolve the problem of recognizing the credits obtained by its students within their study stays at foreign universities. This question will be addressed by the information system IS/STAG that will be implemented in the course of the year 2004.

## 11. Activities of the Faculties and Other University Entities



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Faculty of Technology

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tel. 576 031 120, [www.ft.utb.cz](http://www.ft.utb.cz)



## 11.1 Faculty of Technology

### Dean

Prof. Ing. Josef ŠIMONÍK, CSc.

### Vice-Deans

Prof. Ing. Lubomír LAPČÍK, DrSc.

*Vice-Dean for R&D Activities and International Relations; Statutory Deputy*

Doc. RNDr. Jiří DOSTÁL, CSc.

*Vice-Dean for Pedagogical Activities for Bachelor Studies*

Doc. Ing. Roman PROKOP, CSc.

*Vice-Dean for Pedagogical Activities for Master and Doctoral Studies*

Doc. Ing. Miroslav MAŇAS, CSc.

*Vice-Dean for Establishing the Faculty of Information Technologies, and for Internal Relations*

### Academic Senate

Ing. Tomáš SYSALA, Ph.D. - *Chairperson*

### Scientific Board

Prof. Ing. Josef ŠIMONÍK, CSc. - *Chairperson*

### Secretary

Ing. Jan JANDÍK

### Chairpersons of the Study Programmes Boards

Doc. Ing. Petr HLAVÁČEK, CSc. - *Chemistry and Materials Technology*

Doc. Ing. Miroslav MAŇAS, CSc. - *Process Engineering*

Prof. Ing. Vladimír VAŠEK, CSc. - *Chemical and Process Engineering, Engineering Informatics*

Prof. PhDr. Vlastimil ŠVEC, CSc. - *Pedagogy*

### Chairpersons of the Doctoral Programmes Boards

Prof. Ing. Petr DOSTÁL, CSc. - *Technical Cybernetics*

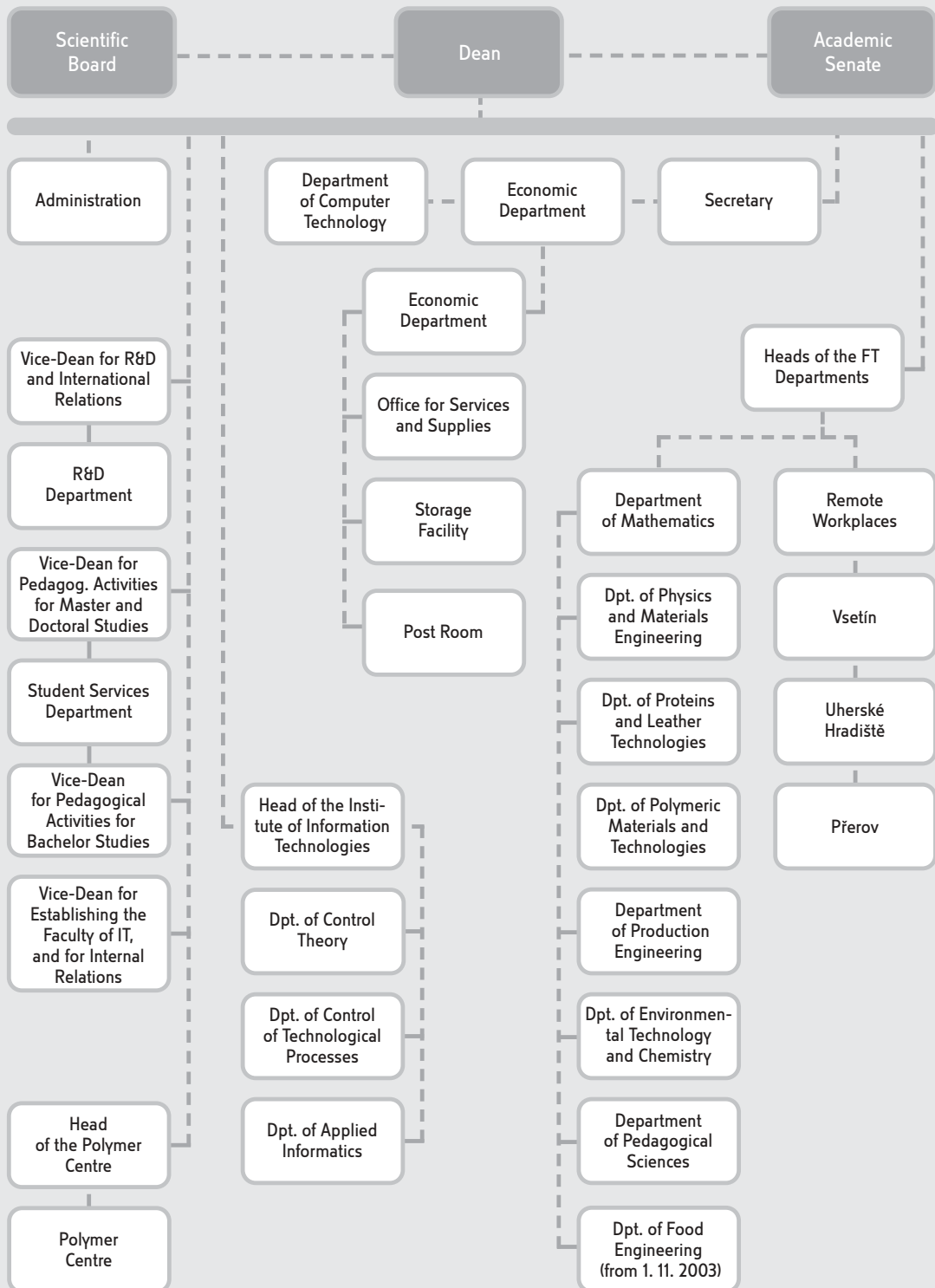
Prof. Ing. Josef ŠIMONÍK, CSc. - *Technology of Macromolecular Substances*

### FT Representative to the Assembly of the Czech Council of Higher Education Institutions

Doc. Ing. Stanislav KAFKA, CSc.



## 11.1.1 Organizational Structure







## 11.1.2 FT Departments, Institutes and Research Centres

### **Department of Physics and Materials Engineering**

Head: Prof. Ing. Lubomír LAPČÍK, Ph.D.

### **Department of Mathematics**

Head: Doc. RNDr. Josef ZEDNÍK, CSc.

### **Department of Polymeric Materials and Technologies**

Head: Prof. Ing. Josef ŠIMONÍK, CSc.

### **Department of Environmental Technology and Chemistry**

Head: Doc. Ing. Jaromír HOFFMANN, CSc.

Interim Head: Prof. Ing. Milan VONDRUŠKA, CSc.  
(from 1. 9. 2003)

### **Department of Proteins and Leather Technologies**

Head: Doc. Ing. Petr HLAVÁČEK, CSc.

### **Department of Production Engineering**

Head: Doc. Ing. Miroslav MAŇAS, CSc.

### **Department of Pedagogical Sciences**

Head: Prof. PhDr. Vlastimil ŠVEC, CSc.

### **Institute of Information Technologies**

Head: Prof. Ing. Vladimír VAŠEK, CSc.

### **Polymer Centre**

Head: Prof. Ing. Petr SÁHA, CSc.

### **Department of Food Engineering**

Interim Head: Prof. Ing. Ignác HOZA, CSc.,  
(from 1. 11. 2003)

## 11.1.3 Study Programmes

### **BACHELOR'S STUDY PROGRAMMES**

#### **B 2808 Chemistry and Materials Technology**

*Courses*

Shoemaking Technology - guaranteed by TBU,  
taught at Higher Professional School  
of Business in Zlín  
full-time studies

Chemistry and Materials Technology  
full-time and combined studies

Technological Equipment  
full-time studies

#### **B 2807 Chemical and Process Engineering**

*Courses*

Automation and Informatics  
full-time and combined studies

Automation and Process Control  
full-time and combined studies

#### **B 2901 Chemistry and Food Technologies**

*Course*

Chemistry and Food Technologies  
full-time studies

#### **B 3902 Engineering Informatics**

*Courses*

Automatic Control and Informatics  
full-time and combined studies

Information Technologies  
full-time and combined studies

Information Technologies - Security Technologies,  
Systems and Management  
full-time and combined studies

#### **B 3909 Process Engineering**

*Course*

Technological Equipment  
full-time studies

#### **B 6208 Economics and Management**

*Course*

Economics and Nutrition Hygiene  
full-time studies

#### **B 7501 Pedagogy**

*Course*

Social Pedagogy  
full-time and combined studies

## FOLLOW-UP MASTER'S DEGREE PROGRAMMES

### N 2808 Chemistry and Materials Technology

Course

Technology of Leather, Plastics, and Rubber  
full-time studies

### N 3902 Engineering Informatics

Course

Teaching IT at Elementary and Secondary Schools  
full-time studies

### N 2807 Chemical and Process Engineering

Course

Automation and Process Control in Consumer Industry  
full-time studies

### N 62-08 Economics and Management

Course

Economics and Nutrition Hygiene  
full-time studies

## MASTER'S DEGREE PROGRAMMES (ONLY FULL-TIME STUDIES)

### M 2807 Chemical and Process Engineering

Course

Automation and Process Control in Consumer Industry

Environmental Technology

Materials Engineering

Technology and Management

Specialization: Footwear and Leather Goods

Technologies

Rubber and Plastics Technologies

### M 2808 Chemistry and Materials Technology

Courses

Technology of Leather, Plastics, and Rubber

Specialization: Footwear and Leather Goods

Technologies

Rubber and Plastics Technologies

Proteins Technology

### M 6208 Economics and Management

Course

Economics and Nutrition Hygiene

## DOCTORAL DEGREE PROGRAMME (FULL-TIME AND COMBINED STUDIES)

### P 2807 Chemical and Process Engineering

Course

Technical Cybernetics

### P 2808 Chemistry and Materials Technology

Course

Technology of Macromolecular Substances

## Applicant Interest in the FT Bachelor's Degree Programmes

Table No. 30

Study Programme	Study Programme Code	Applications Received <sup>1)</sup>	Applicants <sup>2)</sup>	Number of Accepted <sup>3)</sup>	Newly Accepted <sup>4)</sup>	Registered for Study <sup>5)</sup>
CHTM	2808	364	364	290	290	183
CHPI	2807	61	61	51	51	63*
CHTP	2901	141	141	126	126	108
II	3902	707	707	433	433	318
PI	3909	240	240	184	184	145
P	7562	1,181	1,181	495	495	371
<b>Total</b>		<b>2,694</b>	<b>2,694</b>	<b>1,579</b>	<b>1,579</b>	<b>1,188</b>

\* The total includes students who were not accepted to other study programmes, and were transferred on their own request.



Applicant Interest in the FT Follow-Up Master's Degree Programmes

Table No. 31

Study Programme	Study Programme Code	Applications Received <sup>1)</sup>	Applicants <sup>2)</sup>	Number of Accepted <sup>3)</sup>	Newly Accepted <sup>4)</sup>	Registered for Study <sup>5)</sup>
II	3902	10	10	10	10	10
EM	6286	7	7	7	7	7
<b>Total</b>		<b>17</b>	<b>17</b>	<b>17</b>	<b>17</b>	<b>17</b>

**Notes:**

<sup>1)</sup> Total number of applications received.

<sup>2)</sup> Number of applicants for study. The figures express the number of individuals; the study courses totals include multiple applications (i.e. students applying for more than one course).

<sup>3)</sup> Number of applications responded to positively.

<sup>4)</sup> Number of applicants accepted for study. The figures express the total number of individuals; the study courses totals include applicants accepted to more than one course.

<sup>5)</sup> Number of accepted students who actually registered to start their studies.

Numbers of Students at FT

Table No. 32

Study Programme	Study Programme Code	Study Programme			Students Total
		Bachelor's	Master's	Doctoral	
CHTM	2808	350	154	95	599
CHPI	2807	110	82	47	239
CHTP	2901	108	0	0	108
II	3902	607	10	0	617
PI	3909	246	0	0	246
EM	6208	4	38	0	42
P	7562	613	0	0	613
<b>Total</b>		<b>2,038</b>	<b>284</b>	<b>142</b>	<b>2,464</b>

Numbers of Foreign Students at FT, Including Students from Slovakia

Table No. 33

Study Programme	Study Programme Code	Study Programme			Students Total
		Bachelor's	Master's	Doctoral	
CHTM	2808	13	12	8	33
CHPI	2807	3	0	3	6
CHTP	2901	0	0	0	0
II	3902	23	0	0	23
PI	3909	1	0	0	1
EM	6208	0	0	0	0
P	7562	0	0	0	0
<b>Total</b>		<b>40</b>	<b>12</b>	<b>11</b>	<b>63</b>

## Numbers of Graduates from FT

Table No. 34

Study Programme	Study Programme Code	Study Programme			Students Total
		Bachelor's	Master's	Doctoral	
CHTM	2808	9	97	5	111
CHPI	2807	22	37	4	63
CHTP	2901	0	0	0	0
II	3902	0	0	0	0
PI	3909	0	0	0	0
EM	6208	0	0	0	0
P	7562	0	0	0	0
<b>Total</b>		<b>31</b>	<b>134</b>	<b>9</b>	<b>174</b>

### Notes:

- CHTM - Chemistry and Materials Technology
- CHPI - Chemical and Process Engineering
- CHTP - Chemistry and Food Technologies
- II - Engineering Informatics
- PI - Process Engineering
- EM - Economics and Management
- P - Pedagogy

### Commentary:

1 student received a Diploma with Distinctions in a Bachelor's degree programme. 3 students were awarded the FT Dean's Award for their excellent Bachelor's Dissertations. 9 students received Diplomas with Distinction in Master's degree programmes. 1 student was awarded the TBU Rector's Award, and 14 other students received the FT Dean's Award for outstanding Dissertations. Other prizes awarded were: the Zlín Mayor's Award (1), the TBU Trust Award (1), the Czech Shoemaking Association Award (2), the Tajmac-ZPS Prize (2), the Mitas Award (1), and the Unternehmensberatung R. Spranz Award (1).

### Bachelor's Study Programmes Taught Off University Premises

In 2002, the Faculty of Technology opened a full-time Bachelor's degree programme in Process Engineering (3909-B) at the remote workplace at the Secondary Technical School (SPŠ) in Uherské Hradiště (16 students). In the year 2003, courses at this remote workplace were cancelled due to a large decrease in student

numbers. The remaining students were transferred to FT. The full-time Bachelor's degree programme in Engineering Informatics (3902-B) at the remote workplace at the Secondary Technical School (SPŠ) in Přerov continues to run; there are 11 students in the 1<sup>st</sup> year, and 7 students in the 2<sup>nd</sup> year.

At the remote workplace at the Secondary Technical School of Engineering (SPŠS) in Vsetín, the full-time Bachelor's degree programme in Process Engineering (3909-B) continues to run; there are 39 students in the 1<sup>st</sup> year, 20 students in the 2<sup>nd</sup> year, and 15 students in the 3<sup>rd</sup> year.

In October 2003, a new specialization was added within the combined study in the course Social Pedagogy of the Bachelor's degree programme Pedagogy taught in Zlín; the students can now specialize in the issues related to the matters of the Ministry of Education, Youth and Sports, and of the Ministry of Labour and Social Affairs. The study is conducted through the Institute for Interdisciplinary Studies in Brno and in cooperation with the TBU Department of Pedagogical Sciences in Zlín.

## 11.1.4 Innovation and Accreditation of Study Programmes; Students' Success in the Labour Market

After the year 2001, all study programmes at FT were accredited as Bachelor's and follow-up Master's degree programmes with the structure 3+2 years. In the course of 2003, the following new study programmes were accredited: Chemistry and Food Technologies (with courses in Technology, Hygiene, and Economics of Food Production, and Technology and Economics of Fat, Detergent, and Cosmetics Production), and Economics and Management (with a course in Economics and Nutrition Hygiene). 100 students were accepted to study in the first year of the newly accredited programmes, another 38 students in the 3rd - 5th year were transferred to FT from the Military University of the Ground Forces in Vyškov. At the same time, 12 pedagogues from the Military University were employed, and now ensure the educational and scientific infrastructure for the given programme. Currently, FT has 7 accredited study programmes, which means a considerable increase in possibilities for labour market success for its graduates.

Within the framework of the study programme in Pedagogy, two courses were accredited, both in full-time study form: a two-year Master's degree course in Teaching IT at Elementary and Secondary Schools, and

a course in Social Pedagogy. The course in Social Pedagogy will be launched in the academic year 2004/2005. In the academic year 2003/2004, there are 100 FT students studying in this course in the combined study form. The newly accredited programmes are very popular with both secondary school graduates and working professionals, because they offer education in fields which will require workers with a university education, after the Czech Republic joins the European Union. Study programmes and courses are continuously reviewed and modified to respond to the labour market requirements.

According to the data available, FT graduates are in great demand among employers, and have no difficulties in finding a job.

### Study Opportunities for Disabled Students

There is no special study programme or course for disabled students accredited at TBU. At FT, a study course in Information Technologies for Aurally Impaired and Physically Disabled students is being prepared. Spaces necessary for this course will be available in the Building U5 in the academic year 2004/2005.

## 11.1.5 Research and Development

The main areas of research at the Faculty of Technology are as follows:

- Characteristics of polymer systems,
- Processing of collagen-based raw materials,
- Issues of healthy footwear,
- Process control,
- Minimisation of the influences of industrial wastes on the environment,
- Implicit pedagogical knowledge.

In the course of the year 2003, significant results were achieved not only in the area of quantitative description of processes and systems, but also in the field of practical use of the research outcomes. Mutual communication between individual departments improved, as did the equipment of the Faculty and, consequently, also the economical level of research and development activities.

Within the framework of the detailed analyses of footwear discovered on an Alpine glacier near the body of a prehistorical man called Ötzi, the team led by Doc. Petr Hlaváček created replicas of the

footwear. The American journal *Discoverer* listed their research results amongst the one hundred most important discoveries of the year 2003.

Especially valuable appears to be the development of dispersion for cutting ingots with a string device based on a sophisticated solo system of a complex polymer. It was developed for the University's industrial partner THEMIS, a. s., Rožnov p. Radhoštěm, a company that assembles single-purpose equipment AWSM 3 800.3, mainly for customers from abroad. Through the cooperation with this industrial partner, the Department of Physics and Materials Engineering participated in the project GRD1-2-25292 „Super Wafer“, that was carried out within the framework of the EU research programme „Competitive and Sustainable Growth.“ The research in this field continues. Research at FT is organized at individual departments through their participation in research plans (there were 4 in 2003), grant projects of the Czech Ministry of Education, Youth and Sports, grant projects of the Czech Ministry of Industry and Trade, and of other legal subjects providing specific grants.

## FOCUS OF RESEARCH AND DEVELOPMENT ACTIVITIES AT THE FT DEPARTMENTS AND WORKPLACES

### Department of Physics and Materials Engineering

- Applied acoustics and mechanics of bodies
- Computer modelling of structures, application of the finite element method
- Characterization of dielectric properties of materials
- Sorption/desorption phenomena at the solid/liquid and solid/gas interfaces
- Applied plasma chemistry and physics of plasma
- Preparation and characterization of thin-layers
- Measurement of tensile behaviour of materials
- Applied colloidal and surface chemistry
- Transport phenomena in the solid/liquid system

### Department of Mathematics

- Differential equations
- Universal algebra and theory of unions
- Numerical mathematics - final elements method
- University and secondary school didactics of mathematics

### Department of Pedagogical Sciences

- Negative social phenomena and their prevention at school and in the family
- Implicit pedagogical knowledge and the possibilities for self-regulation of its development
- Problematic pedagogical situations - their diagnosis by the teacher, and possible solutions
- Influence of metacognitive strategies on the development of pupils' self-regulation skills

### Department of Polymeric Materials and Technologies

- Study of nano-composite polymer/clay systems with the focus on the mechanisms of the intercalation theory. Preparation, intercalation, compounding, correlation of properties and process mechanisms, study of structures of nano-composite systems, application.
- Thermo-fixation technology, application of general rules for process description, modelling of basic technological units
- Correlation of technical conditions for processing with the structure and properties of polymer systems.
- Monitoring of mixing process
- Extrusion and unstable flows of polymers
- Composites with polymer matrices and their properties
- Thermo-mechanical analyses of polymer systems
- Structure and properties of liquid crystals
- Intelligent polymeric materials

### Department of Proteins and Leather Technology

- Studies of the creation and properties of intermolecular complexes on the basis of biopolymers
- Reactions of biopolymers with surface active materials
- Processing and utilization of wastes from leather processing and meat industry
- Healthy footwear, development and testing of special prophylactic shoes for diabetics
- Adhesion of shoemaking materials and its optimisation
- Studies of historical samples of footwear and products made of leather
- Clean technologies - environmentally acceptable variants of disposal of solid wastes from tanning

### Department of Environmental Technology and Chemistry

- Environmental issues - research and application of methodology for evaluation of xenobiotics
- Remedial treatment of waters contaminated by chlorinated hydrocarbons
- Evaluation of biodegradation of polymeric materials in aerobic environment
- Deproteinisation of chrome wastes from enzymatic hydrolysis of shavings
- Application of products of protein wastes hydrolysis in leather industry
- Climatic changes and natural conditions of Central Asia
- Solid wastes stabilization/solidification using inorganic and organic binding agents
- Preparation and reactions of quinoline derivatives
- Properties of diluted solutions of synthetic macromolecular materials

### Department of Production Engineering

- Modelling of mechanical behaviour of polymers and composites with polymer matrices
- Modelling and simulation of polymer melt flows in injection mould cavities
- Machinability of polymers and composites with polymer matrices, and of metals
- Influence of tool construction and technological conditions on polymer product properties

### Institute of Information Technologies

- Application of modern automatic control methods on control of linear and non-linear technological processes
- Decentralized monitoring and control systems on the



- basis of microcomputers and industrial computers
- Design and implementation of single-purpose micro-computer regulators
- Modelling of tanning processes with regard to their automatic control
- Instrumentation technology, non-electric variables scanning, and signal processing
- Automation in power plant engineering with special focus on centralized heat distribution, control of combined electrical energy and heat production, heat distribution control
- Application of Artificial Intelligence methods in process control
- Software engineering

#### Polymer Centre - Research Unit

- Applied rheology - modelling of polymer melts flows
- Electrical properties of composite materials
- Electrorheology
- Rheology of recyclable polymers
- Rheology of highly filled systems
- Structural relaxation of polymeric materials
- Development of biodegradable materials
- Metastability in organo-silicon hybrid structures with variable dimensionality
- Marketing and financial analyses in plastics and rubber industry

For more information on the Polymer Centre see Chapter 7.3.

### The FT Departments' Involvement in Research Plans and Projects

Table No. 35

Research Project	Resources Allocated in 2003 (in thousands CZK)
Automation of Technologies and Manufacturing Processes	1,930
Minimisation of the Influences of Industrial Wastes upon the Environment	2,542
New Technologies and Ecological Trends in Processing of Natural Polymers	4,058
Progressive Polymeric Systems and Technologies	12,983

### FT Involvement in Projects Financed from Specific Resources and Other Resources from the Czech Republic and from Abroad

Table No. 36

Resources Provider/Type of Project	Number of Projects	Allocated Resources (in thousands CZK)
<b>Grant Agency of the Czech Republic</b>		
- resources provided to head researchers	17	6,625
- resources provided to fellow-researchers	3	643
<b>Grant Agency of the Academy of Sciences of the Czech Republic</b>	1	263
<b>International Cooperation</b>		
ME-KONTAKT	5	1,182
- through AIP Praha	2	76
EUREKA	1	200
5 <sup>th</sup> framework programme		
RESTORM	1	725
SAPRO	1	644
Others (USA EP)	1	170
MPO - co-researchers 6	1,356	

## 11.1.6 Successful Doctoral Studies Graduates from FT

Table No. 37

Graduate	Doctoral Thesis Title	Supervisor	Defence Date
Ing. Pavel Mokrejš, Ph.D.	Risks of Manipulation Wastes from Leather Industry and Possibilities for their Hydrolytic Processing	Prof. Ing. M. Mládek CSc.	20. 3. 2003
Ing. Richard Pavlica, Ph.D.	Curing of Composites with Polymeric Matrices	Doc. Ing. A. Blaha, CSc.	8. 4. 2003
Ing. Magda Sergejevová, Ph.D.	Biodegradation of Trichloroethen by Biopolymeric Systems	Doc. Ing. J. Hoffmann, CSc.	16. 5. 2003
Ing. Petr Slobodian, Ph.D.	Physical Aging of Amorphous Polymers	Prof. Ing. P. Sába, CSc.	25. 9. 2003
Ing. Walter Kopytko, Ph.D.	Interfacial Flow Instability in Multilayer Coextrusion	Doc. RNDr. J. Vlček, CSc.	27. 11. 2003
Ing. Pavel Pokorný, Ph.D.	Issues of Control in Hydrolytic Processing of Secondary Protein Materials	Prof. Ing. V. Vašek, CSc.	26. 6. 2003
Ing. Petr Husták, Ph.D.	Systems with Traffic Delay and Design of Robust Regulators for their Control	Doc. Ing. R. Prokop, CSc.	2. 10. 2003
Ing. Petr Chalupa, Ph.D.	Discrete Decentralized Control Systems	Prof. Ing. V. Bobál, CSc.	2. 10. 2003
Ing. Pham Manh Thang, Ph.D.	Modelling of Recycling Processes in Tannery Technology and their Automatic Control	Prof. Ing. V. Vašek, CSc.	19. 12. 2003





## 11.1.7 Publication and R&D Activities

Table No. 38

Type	ÚFMI	ÚPMT	ÚTBK	ÚTŽPCH	ÚVI	IIT	CPM	ÚPV	Number
Monographs	1	0	2	0	0	2	2	3	10
Contributions in international scientific journals	8	5	7	21	4	4	15	0	64
Contributions in Czech and Slovak journals	1	3	5	9	6	31	0	1	56
Contributions at international conferences in a foreign language	10	17	25	27	18	53	35	1	186
Contributions at domestic conferences	10	31	14	17	36	61	9	7	185
Other - patents, engineering, artistic and other works	2	0	0	0	0	0	0	0	2
Teaching texts	2	0	0	2	1	1	0	0	6
Dissertations	0	2	1	1	0	4	1	0	9
Habilitation theses	1	0	0	0	0	0	1	0	2
<b>Total</b>	<b>35</b>	<b>58</b>	<b>54</b>	<b>77</b>	<b>65</b>	<b>156</b>	<b>63</b>	<b>12</b>	<b>520</b>

**Notes:**

ÚFMI - Department of Physics and Materials Engineering  
 ÚPMT - Department of Polymeric Materials and Technologies  
 ÚTBK - Department of Proteins and Leather Technologies  
 ÚTŽPCH - Department of Environmental Technology and Chemistry

ÚVI - Department of Production Engineering  
 IIT - Institute of Information Technologies  
 CPM - Polymer Centre  
 ÚPV - Department of Pedagogical Sciences

## 11.1.8 International Cooperation

The FT Departments cooperate with a number of foreign universities and scientific institutions in R&D activities, and exchange students, pedagogues, and scientific workers. The Faculty's cooperation with other universities within the framework of the Socrates/Erasmus programme is dealt with in Chapter 10, International Cooperation in Education.

## 11.1.9 Habilitation and Professorial Nomination Procedures

See Chapter 8.4, table No. 25.



**Address:**

Tomas Bata University in Zlín  
Faculty of Management and Economics  
Mostní 5139, 760 01 Zlín  
tel. 576 032 120, [www.fame.utb.cz](http://www.fame.utb.cz)



## 11.2. Faculty of Management and Economics

### **Dean**

Doc. PhDr. Vnislav NOVÁČEK, CSc.

### **Vice-Deans**

Ing. Roman BOBÁK, Ph.D.

*Vice-Dean for R&D and Public Relations; Statutory Deputy*

PhDr. Milan MIKULÁŠTÍK, Ph.D.

*Vice-Dean for Full-Time Studies*

Doc. Dr. Ing. Drahomíra PAVELKOVÁ

*Vice-Dean for Combined Studies and Lifelong Learning*

RNDr. Bedřich ZIMOLA

*Vice-Dean for International Relations*

### **Academic Senate**

Ing. Vratislav KOZÁK, Ph.D. – *Chairperson*

### **Scientific Board**

Doc. PhDr. Vnislav NOVÁČEK, CSc. – *Chairperson*

### **Secretary**

Ing. Jiří VLK (*until 20. 7. 2003*)

Ing. Zdeněk RAŠKA (*from 1.12. 2003*)

### **Chairperson of the Study Programmes Board and the Lifelong Learning Board**

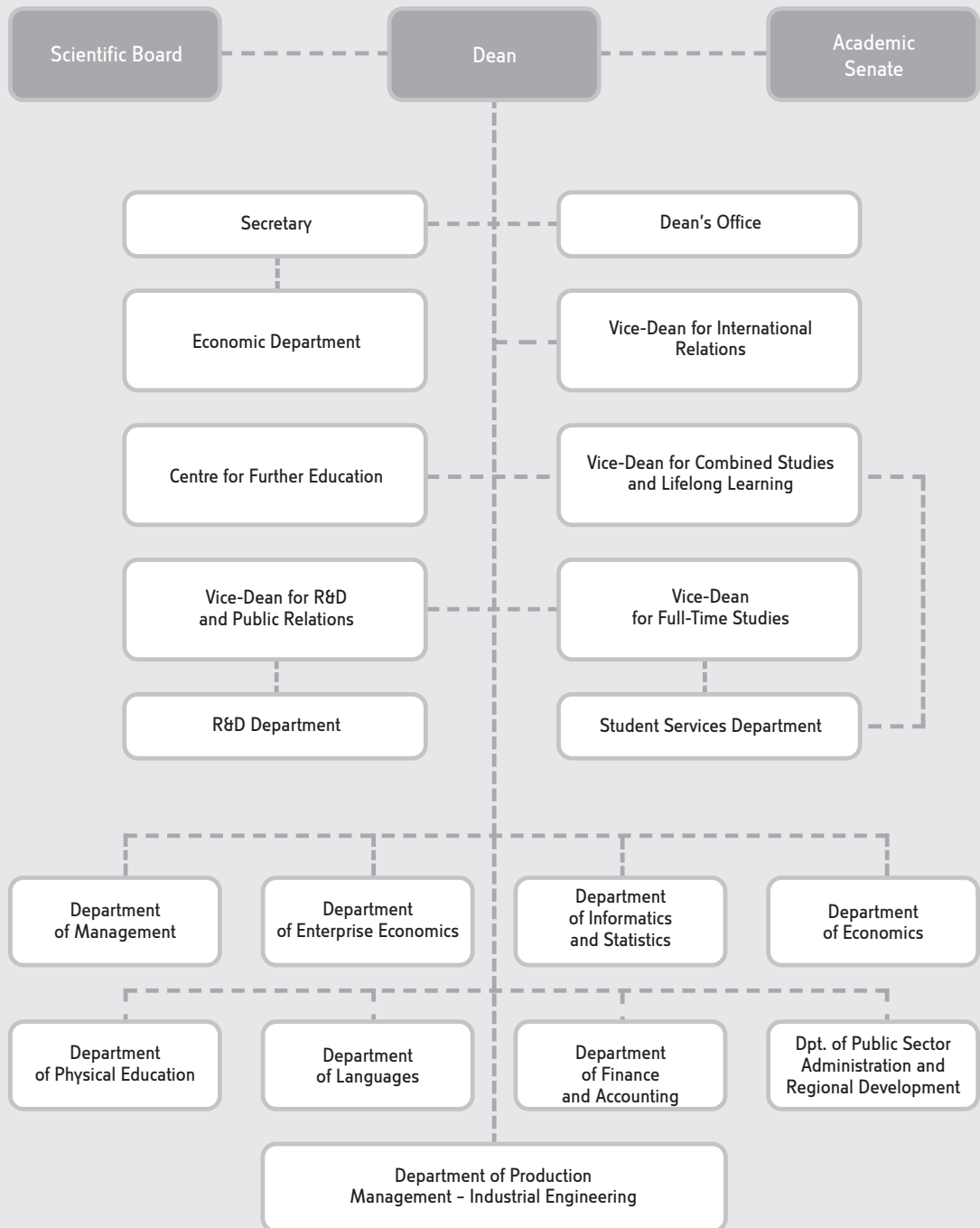
Doc. PhDr. Alois GLOGAR, CSc.

### **Chairperson of the Doctoral Programmes Board**

Prof. Ing. František TRNKA, CSc.



## 11.2.1 Organizational Structure





## 11.2.2 FaME Departments

### **Department of Economics**

Head: Ing. Jitka KLOUDOVÁ, Ph.D.

### **Department of Management**

Head: Prof. Ing. Ján PORVAZNÍK, CSc.

### **Department of Finance and Accounting**

Head: Ing. Zdeněk RAŠKA,  
(Interim until 30. 4. 2003, appointed 1. 5. - 30. 11. 2003)  
Doc. Dr. Ing. Drahomíra PAVELKOVÁ,  
(Interim from 1. 12. 2003)

### **Department of Enterprise Economics**

Head: Ing. Miroslav VRÁBLÍK

### **Department of Informatics and Statistics**

Head: Prof. Ing. Zdeněk MOLNÁR, CSc.

### **Department of Public Administration and Regional Development**

Head: Doc. RNDr. René WOKOUN, CSc.

### **Department of Production Management - Industrial Engineering**

Head: Ing. Roman BOBÁK, Ph.D.

### **Department of Languages**

Head: Mgr. Ludmila KOLÁŘOVÁ

### **Department of Physical Education**

Head: Mgr. Zdeněk MELICHÁREK

### **Centre for Further Education**

Head: RNDr. Bedřich ZIMOLA

## 11.2.3 Study Programmes

### **BACHELOR'S DEGREE STUDY PROGRAMMES**

#### **B 6208 Economics and Management** full-time and combined studies

*Courses*

Management and Economics

Marketing\*

Financial Management of Enterprises\*

#### **B 6202 Economic Policy and Administration** full-time and combined studies

*Courses*

Public Administration and Regional Development

Public Economics and Administration\*

\* Bachelor's degree courses guaranteed by TBU and taught at the Tomas Bata Business Academy and the Higher Professional School of Business in Zlín

### **FOLLOW-UP MASTER'S DEGREE PROGRAMME**

#### **N 6208 Economics and Management** full-time and combined studies

*Courses*

Management and Marketing

Enterprise Economics

Industrial Engineering

### **DOCTORAL DEGREE PROGRAMME**

#### **P 6208 Economics and Management** full-time and combined studies

*Course*

Management and Economics

## LIFELONG LEARNING PROGRAMMES

### B 6208 Economics and Management

Course

Management and Economics

### B 6202 Economic Policy and Administration

Course

Public Administration and Regional Development

### N 6208 Economics and Management

Courses

Management and Marketing

Enterprise Economics

Industrial Engineering

## Applicant Interest in the FaME Bachelor's Degree Programmes

Table No. 39

Study Programme	Study Programme Code	Applications Received <sup>1)</sup>	Applicants <sup>2)</sup>	Number of Accepted <sup>3)</sup>	Newly Accepted <sup>4)</sup>	Registered for Study <sup>5)</sup>
Economics and Management	6208	2,273	2,273	670	670	521
Economic Policy and Administration	6202	391	391	127	127	120
<b>Total</b>		<b>2,664</b>	<b>2,664</b>	<b>797</b>	<b>797</b>	<b>641</b>

## Applicant Interest in the FaME Master's Degree Programmes - Applicants from other Universities

Table No. 40

Study Programme	Study Programme Code	Applications Received <sup>1)</sup>	Applicants <sup>2)</sup>	Number of Accepted <sup>3)</sup>	Newly Accepted <sup>4)</sup>	Registered for Study <sup>5)</sup>
Economics and Management	6208	178	178	113	113	102

### Notes:

<sup>1)</sup> Total number of applications received.

<sup>2)</sup> Number of applicants for study. The figures express the number of individuals; the study courses totals include multiple applications (i.e. students applying for more than one course).

<sup>3)</sup> Number of applications responded to positively.

<sup>4)</sup> Number of applicants accepted for study. The figures express the total number of individuals; the study courses totals include applicants accepted to more than one courses.

<sup>5)</sup> Number of accepted students who actually registered to start their studies.

## Numbers of Students at FaME

Table No. 41

Study Programme	Study Programme Code	Study Programme			Students Total
		Bachelor's	Master's	Doctoral	
Economics and Management	6208	1,766	508	80	2,354
Economic Policy and Administration	6202	305	0	0	305
<b>Total</b>		<b>2,071</b>	<b>508</b>	<b>80</b>	<b>2,659</b>

Numbers of Foreign Students at FaME, Including Students from Slovakia

Table No. 42

Study Programme	Study Programme Code	Study Programme			Students Total
		Bachelor's	Master's	Doctoral	
Economics and Management	6208	74	19	0	93
Economic Policy and Administration	6 202	1	0	0	1
<b>Total</b>		<b>75</b>	<b>19</b>	<b>0</b>	<b>94</b>

Numbers of Graduates from FaME

Table No. 43

Study Programme	Study Programme Code	Study Programme			Students Total
		Bachelor's	Master's	Doctoral	
Economics and Management	6208	260	179	1	440
Economic Policy and Administration	6 202	0	0	0	0
<b>Total</b>		<b>260</b>	<b>179</b>	<b>1</b>	<b>440</b>

**Commentary:**

In the Bachelor's degree programmes, 4 students received Diplomas with Distinction. 9 students were rewarded for outstanding Bachelor's Dissertations. In the Master's degree programme, 1 student received

a Diploma with Distinction. 16 students were rewarded for outstanding Dissertations. Other prizes awarded were: the TBU Rector's Award (1), the Tajmac-ZPS Prize (2), the Zlín Mayor's Award (1), and the TBU Trust Award (1).

## 11.2.4 Innovation and Accreditation of Study Programmes; Students' Success in the Labour Market

In the course of the year 2003, partial changes of study programmes for the academic year 2003/2004 were discussed at the meetings of the Study Programmes Board and the Faculty Scientific Board. The final version was afterwards published in the information brochure Study Programmes 2003/2004 and in electronic form at [www.fame.utb.cz/czech/studium/studium.php](http://www.fame.utb.cz/czech/studium/studium.php). Innovations were directed at lowering the amount of lessons, and ensuring relations between individual disciplines. Graduates from all FaME study programmes and courses are constantly in great demand among employers, and have no difficulties in finding a job.

**New Bachelor's, Master's and Doctoral Degree Programmes**

In 2003, a Master's degree programme in Economic

Policy and Administration, with a course in Finance was accredited at FaME, and it will start in both full-time and combined form in the academic year 2004/2005. Furthermore, a Bachelor's degree programme in Economic Policy and Administration, a course in Public Economics and Administration was accredited.

The offer of study programmes and courses at the Faculty meets the labour market needs in the Zlín region. In 2003, further courses in both Bachelor's and Master's degree study programmes Economics and Management were opened within the framework of the Lifelong Learning programme. The lectures take place at FaME and also, in cooperation with the Wide Open School Foundation, in Žiar nad Hronom.

## 11.2.5 Research and Development

The long-term research at FaME concerns the following areas:

- a) Formulation of the theoretical principles and starting-points for the conception of the industrial policy of the future Euro-region in the context of the globalisation of the Czech economy,
- b) Development of methodological materials for implementing programmes for enterprise processes modernization leading to increased competitive abilities of the enterprises,
- c) Development of information systems supporting production and operations management, economic analyses, product planning, organisational changes planning, logistic material flow planning, production management, work organization and measurement, and maintenance of plant and equipment.

### FOCUS OF R&D ACTIVITIES AT THE FAME DEPARTMENTS AND WORKPLACES

#### Department of Management

- Human resources management and personnel management
- General marketing and marketing management methodology, marketing and management of advertising
- Legal and environmental aspects of international management

#### Department of Enterprise Economics

- Enterprise economics and management
- Innovation management
- Competitive abilities of small and medium-sized enterprises

#### Department of Economics

- Macroeconomic and microeconomic contexts of the globalisation process
- Status of regions within EU
- Theory of competitive abilities

#### Department of Informatics and Statistics

- Information technologies and computer-assisted business activities
- Informational support of marketing management in marketing information systems
- Theory of probability, mathematical and economic statistics, quantification and optimisation methods in business activities

#### Department of Finance and Accounting

- Financial management of enterprises
- Engineering economics (accounting, taxes, controlling)
- Capital markets and enterprise economics

#### Department of Public Sector and Regional Administration

- Public and regional administration
- Regional economics

#### Department of Production Management - Industrial Engineering

- Operations (production) engineering, production planning and management, logistics with the use of integrated information and management systems
- Performance measurement and operations management, productivity, processes improvement
- Total quality management

#### Department of Languages

- Development of business and technical English and German study materials for Bachelor's, Master's and Doctoral degree programmes at TBU in Zlín
- Projects of international cooperation within the framework of EU, TEMPUS, and Leonardo da Vinci programmes

#### Department of Physical Education

- Testing the physical performance levels of the population

The FaME Departments' Involvement in Research Plans and Projects

Table No. 44

Research Plan (shortened title)	Allocated Resources for 2003 (in thousand CZK)
Research into Competitive Abilities of Czech Industrial Manufacturers	3,203



FaME Involvement in Projects Financed from Specific Resources and Other Resources from the Czech Republic and from Abroad

Table No. 45

Grant Provider/Type of Project	Number of Projects	Allocated Resources (in thousand CZK)
<b>Grant Agency of the Czech Republic</b> - resources supplied to researchers	1	497
<b>International R&amp;D Cooperation</b> - AKTION	1	81

11.2.6 Successful Doctoral Studies Graduates from FaME

Table No. 46

Graduate	Doctoral Thesis Title	Supervisor	Defence Date
Mgr. Jana Vlčková, Ph.D.	Štefan Osuský and his importance for the Czechoslovak diplomacy in the years 1935-1942	Prof. PhDr. M. Trapl, CSc.	6. 3. 2003
Mgr. Věra Kozáková, Ph.D.	New Russian terminology of management and foreign influences on its formation	Doc. PhDr. E. Vysloužilová, CSc.	16. 10. 2003
Ing. Kateřina Hrazdilová-Bočková, Ph.D.	Management of projects related to the construction by the method of critical chain	Ing. L. Marková, Ph.D.	9. 12. 2003
Ing. Petr Klímeck, Ph.D.	Gaining knowledge from enterprise data	Prof. Ing. Z. Molnár, CSc.	6. 12. 2003

## 11.2.7 Publication and R&D Activities

Table No. 47

Type	ÚM	ÚPE	ÚIS	ÚE	ÚFÚ	ÚPI	ÚVSRR	ÚJ	ÚTV	Total
Monographs	4	1	1	0	2	0	1	0	0	9
Contributions in international scientific journals	3	0	0	0	0	0	0	0	0	3
Contributions in Czech and Slovak journals	4	6	2	6	26	9	1	0	0	54
Contributions at international conferences in a foreign language	23	17	4	2	13	13	4	8	1	85
Contributions at domestic conferences	22	23	27	12	45	30	0	14	2	175
Other - patents, engineering, artistic and other works	0	0	2	0	0	3	0	0	0	5
Teaching texts	10	1	3	5	1	1	0	0	0	21
Dissertations	0	1	1	0	0	0	0	2	0	4
Habilitation theses	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>66</b>	<b>49</b>	<b>40</b>	<b>25</b>	<b>87</b>	<b>56</b>	<b>6</b>	<b>24</b>	<b>3</b>	<b>356</b>

**Notes:**

ÚM - Department of Management  
 ÚPE - Department of Enterprise Economics  
 ÚIS - Department of Informatics and Statistics  
 ÚE - Department of Economics  
 ÚFÚ - Department of Finance and Accounting

ÚPI - Department of Production Management  
 - Industrial Engineering  
 ÚVSRR - Department of Public Administration  
 and Regional Development  
 ÚJ - Department of Languages  
 ÚTV - Department of Physical Education



## 11.2.8 International Cooperation

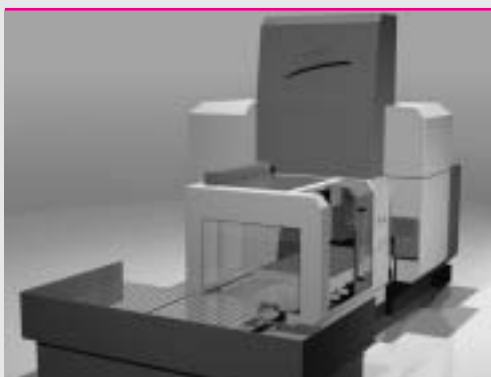
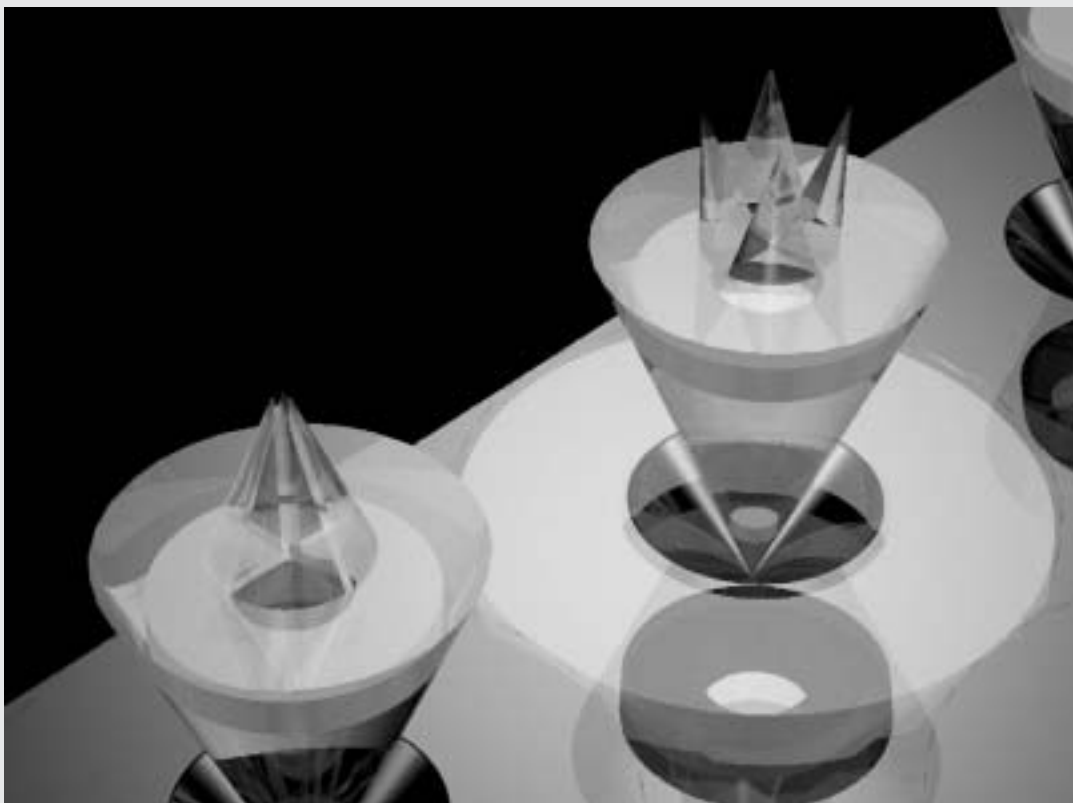
Table No. 48

Project Title	Agency	Number of the Project	Researcher
BATCOS - Development & Piloting of Basic On-Line Training Courses	Commission of the European Communities	LEONARDO CZ/00/B/P/PP-134013	Prof. Ing. Zdeněk Molnár, CSc.
Analyse der Wettbewerbs-fähigkeit tschechischer Unternehmen vor dem Beitritt der Republik Tschechien in die EU	Programme for scientific and technical cooperation between the Czech Republic and Austria	AKTION 34p15	Ing. Vratislav Kozák, Ph.D.
IndiCaM@ICT - Individual Career Management Tool in the Work Place, for Increased Mobility, Adaptability to Change, and Equal Opportunities in the ICT Sector	Commission of the European Communities	LEONARDO EL/2003/B/F/148237	RNDr. Bedřich Zimola
Consumer Citizenship Network University College of Hedmark, Dept. of Teacher Training N-2318 Hamar, Norway	Commission of the European Communities	Socrates/Erasmus Thematic Network 0111/2003 7906UEJ381574	Ing. Petr Briš, CSc.
Study Stay at Oxford Brookes University and Manchester Metropolitan University	NATO Office, Science Fellowships Programme for the Czech Republic		Ing. Jitka Kloudová, Ph.D.

The Faculty's cooperation with other universities within the framework of the Socrates/Erasmus programme is dealt with in Chapter 10, International Cooperation in Education.

## 11.2.9 Habilitation and Professorial Nomination Procedures

According to the decision of the Ministry of Education, Youth and Sports No.23192/2003 - 30 from 25<sup>th</sup> July 2003, the Faculty is entitled to carry out Habilitation proceedings in the course Management and Enterprise Economics until the year 2007.



**Address:**  
Tomas Bata University in Zlín  
Faculty of Multimedia Communications  
Štefánikova 2431, 760 02 Zlín  
tel. 576 034 210, [www.fmk.utb.cz](http://www.fmk.utb.cz)



## 11.3 Faculty of Multimedia Communications

### **Dean**

Prof. Pavel ŠKARKA, MFA

### **Vice-Deans**

Ing. Jaroslav SVĚTLÍK, Ph.D.

*Vice-Dean for R&D Activities; Statutory Deputy*

Ondřej PODZIMEK, MFA

*Vice-Dean for Pedagogical Activities*

Mgr. Veronika ZAVŘELOVÁ

*Vice-Dean for External Relations*

### **Academic Senate**

PhDr. Magda GREGAROVÁ - *Chairperson*

### **Scientific and Artistic Board**

Prof. Pavel ŠKARKA, MFA - *Chairperson*

### **Secretary**

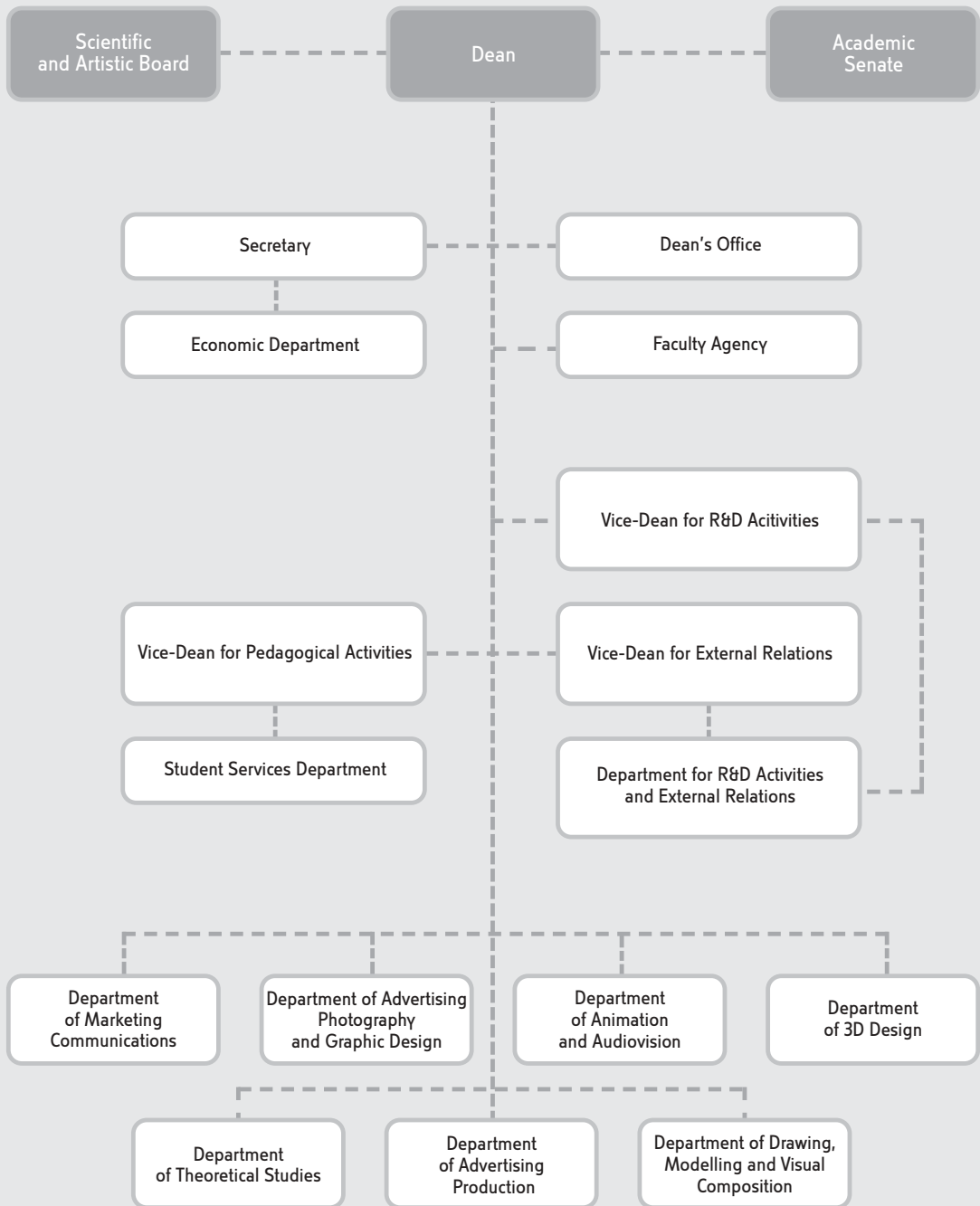
Ing. Eva ŠVIRÁKOVÁ



### **Chairperson of the Study Programmes Board**

Ondřej PODZIMEK, MFA

### 11.3.1 Organizational Structure





## 11.3.2 FMK Departments

### **Department of Marketing Communications**

Interim Head: PhDr. Magda GREGAROVÁ

### **Department of Animation and Audiovision**

Head: MgA. Jana JANÍKOVÁ, ArtD.

### **Department of Advertising Photography and Graphic Design**

Head: Rostislav ILLÍK, MFA

### **Department of 3D Design**

Head: Doc. Jan ZAMAZAL, MFA

### **Faculty Agency**

Manager: Alexandr KALMUS

## 11.3.3 Study Programmes

### **BACHELOR'S DEGREE PROGRAMMES**

#### **B 7202 Media and Communications Studies**

full-time and combined studies

*Course*

Marketing and Social Communications

#### **B 8206 Fine Arts**

full-time and combined studies

*Course*

Multimedia and Design

### **MASTER'S DEGREE PROGRAMMES**

#### **N 7202 Media and Communications Studies**

full-time and combined studies

*Course*

Marketing and Social Communications

#### **N 8206 Fine Arts**

full-time and combined studies

*Course*

Multimedia and Design



### Applicant Interest in the FMK Bachelor's Degree Programmes

Table No. 49

Study Programme	Study Programme Code	Applications Received <sup>1)</sup>	Applicants <sup>2)</sup>	Number of Accepted <sup>3)</sup>	Newly Accepted <sup>4)</sup>	Registered for Study <sup>5)</sup>
Media and Communications Studies	7202	256	256	98	98	98
Fine Arts	8206	485	485	62	62	62
<b>Total</b>		<b>741</b>	<b>741</b>	<b>160</b>	<b>160</b>	<b>160</b>

### Applicant Interest in the FMK Follow-Up Master's Degree Programmes

Table No. 50

Study Programme	Study Programme Code	Applications Received <sup>1)</sup>	Applicants <sup>2)</sup>	Number of Accepted <sup>3)</sup>	Newly Accepted <sup>4)</sup>	Registered for Study <sup>5)</sup>
Media and Communications Studies	7202	93	93	91	91	91
Fine Arts	8206	27	27	27	27	27
<b>Total</b>		<b>120</b>	<b>120</b>	<b>118</b>	<b>118</b>	<b>118</b>

#### Notes:

<sup>1)</sup> Total number of applications received.

<sup>2)</sup> Number of applicants for study. The figures express the number of individuals; the study courses totals include multiple applications (i.e. students applying for more than one course).

<sup>3)</sup> Number of applications responded to positively.

<sup>4)</sup> Number of applicants accepted for study. The figures express the total number of individuals; the study courses totals include applicants accepted to more than one courses.

<sup>5)</sup> Number of accepted students who actually registered to start their studies.

### Numbers of Students at FMK

Table No. 51

Study Programme	Study Programme Code	Study Programme			Students Total
		Bachelor's	Master's	Doctoral	
Media and Communications Studies	7202	285	151	0	436
Fine Arts	8206	148	52	0	200
<b>Total</b>		<b>433</b>	<b>203</b>	<b>0</b>	<b>636</b>

### Numbers of Foreign Students at FMK, Including Students from Slovakia

Table No. 52

Study Programme	Study Programme Code	Study Programme			Students Total
		Bachelor's	Master's	Doctoral	
Media and Communications Studies	7202	18	2	0	20
Fine Arts	8206	4	2	0	6
<b>Total</b>		<b>22</b>	<b>4</b>	<b>0</b>	<b>26</b>



Numbers of Graduates from FMK

Table No. 53

Study Programme	Study Programme Code	Study Programme			Students Total
		Bachelor's	Master's	Doctoral	
Media and Communications Studies	7202	44	43	0	87
Fine Arts	8206	22	15	0	37
<b>Total</b>		<b>66</b>	<b>58</b>	<b>0</b>	<b>124</b>

**Commentary:**

In the Bachelor's degree programmes, 4 students received Diplomas with Distinction. In the Master's degree programmes, 14 students received Diplomas with Distinction. 1 student was awarded the TBU

Rector's Award, and three students received the FMK Dean's Award for outstanding Dissertations.

Other prizes awarded were: the TBU Trust Award (1), the Zlín Mayor's Award (1), the Tajmac- ZPS Prize (2), the AMASIA Award, and the MOSPRA Award.

### 11.3.4 Innovation and Accreditation of Study Programmes; Students' Success in the Labour Market

In the course of the year 2003, in response to the interest of working professionals, the first year of a Master's degree programme in Media and Communications Studies was opened also in the combined study form.

The prerequisite for admission to the combined study is a minimum three-year work experience in the field.

The graduates are in great demand among employers, and have no difficulties in finding a job.

### 11.3.5 Research and Creative Activities

Research Projects in 2003

Table No. 54

Research Plans	0
Grants	0
Universities Development Fund	0
Development Programme of the Ministry of Education, Youth and Sports	1 (Master's degree programme in Media and Communication Studies, combined studies - 371 thousand CZK)
Projects for Research and Creative Activities <sup>1)</sup>	7
Arranging International Conferences and Workshops	1
Publication Activities of the Pedagogues	10

<sup>1)</sup> Projects for Research and Creative Activities carried out at FMK in 2003 for commercial and non-commercial entities.

## CREATIVE ACTIVITIES OF THE FMK DEPARTMENTS IN 2003

### Department of Advertising Photography and Graphic Design

Tomas Bata's Heritage - permanent exhibition in the TBU building

Authors: Rostislav Illík, MFA, Zdena Maršíková

### Department of 3D Design

New Visual Style of Autopal Nový Jičín

Authors: Doc. Jan Zamazal, MFA, Šárka Šišková, MFA, Prof. Pavel Škarka, MFA, MgA. Martin Surman  
The Company Visual Style and Product Design for I. F. S. Trading Veselí nad Moravou

Authors: Doc. Jana Zamazal, MFA, Šárka Šišková, MFA

### Department of Marketing Communications

Investigation into the Cultural Dimensions of the Czech People

Author: Ing. Jaroslav Světlík

Investigation into the People's Attitude to the Advertisement Aimed at Children

Author: Doc. PhDr. Dušan Pavlů, CSc.

Project for Evaluation and Appraisal of the Activities of the IZS Salvator Members

Author: Vlastimil Taták

### Department of Drawing, Modelling and Visual Composition

New Image of the Town of Moravský Beroun

Author: Bořek Zeman, MFA

New Visual and Communication Style of the Town of Kunovice

Author: Bořek Zeman, MFA

### Department of Theoretical Studies

Individual exhibitions: 1

Group exhibitions: 3

## 11.3.6 Publication, Research and Creative Activities

Table No. 55

Type	KAA	KFG	KPD	KMK	KVK	KTE	Number
Monographs	0	0	0	2	0	0	2
Contributions in international scientific journals	0	0	0	0	0	0	0
Contributions in Czech and Slovak journals	0	0	0	6	0	0	6
Contributions at International conferences in a foreign language	0	0	0	0	0	0	0
Contributions at domestic conferences	0	0	0	10	0	0	10
Other - patents, engineering, artistic and other works	0	0	2	3	12	4	21
Teaching texts	0	0	0	4	0	1	5
Dissertations	0	0	0	0	0	0	0
Habilitation theses	0	0	0	0	0	0	0
<b>Total</b>	<b>0</b>	<b>0</b>	<b>2</b>	<b>25</b>	<b>12</b>	<b>5</b>	<b>44</b>

#### Notes:

KAA - Department of Animation and Audiovision

KFG - Department of Advertising Photography and Graphic Design

KPD - Department of 3D Design

KMK - Department of Marketing Communications

KVK - Department of Drawing, Modelling and Visual Composition

KTE - Department of Theoretical Studies

## 11.3.7 International Cooperation

FMK is a member of the following international organizations:

ELIA - European League of Institutes of the Arts

ENCATC - European Network of Cultural Administration Training Centres

The Faculty's cooperation with other universities within the framework of the Socrates/Erasmus programme is dealt with in Chapter 10, International Cooperation in Education.

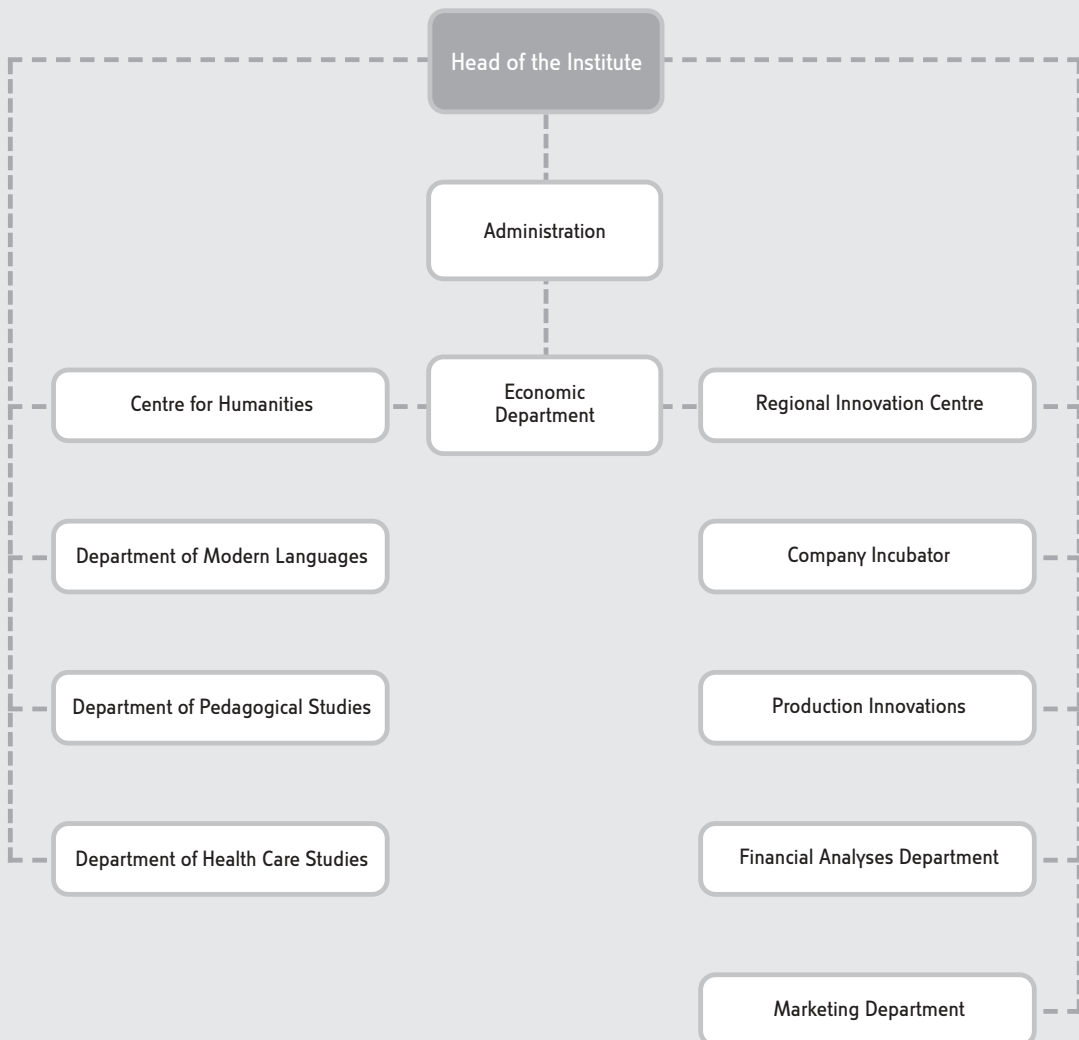


## 11.4 University Institute

On 1st September 2003, a new component of TBU was established, the University Institute (UNI). UNI will consist of the departments that had been established at the individual Faculties in response to the needs of the Zlín region, but whose specialization did not correspond with the focus of the Faculties. UNI will ensure

the development of new study programmes at TBU, with the main focus on medical and humanities (linguistic and pedagogical) studies. As an important component of UNI, the Regional Innovation Centre will deal with strategic projects for applied research relevant in the region.

### 11.4.1 Structure of the University Institute (UNI)





## 11.5 Halls of Residence and Refectories

### Address:

Tomas Bata University in Zlín  
Halls of Residence and Refectories  
Štefánikova 150, 760 01 Zlín  
tel. 576 036 111, www.kmz.utb.cz

### Operational Units:

Building U6	Halls of Residence Antonínova 4379
Building U7	Halls of Residence Štefánikova 150
Building U11	Halls of Residence Nad Ovčírnou 3685
Building U12	Halls of Residence nám. T. G. Masaryka 3050
Building U13	Accommodation Facility, Křiby 4885 (rented)
Building U43	Refectory, Štefánikova 2431

### Services provided:

- Student accommodation in the Halls of Residence
- Catering for students in the Refectory
- Catering for employees of TBU and other organizations in the Refectory
- Additional activities: summer and seasonal accommodation

### 11.5.1 Student Accommodation

The student accommodation capacity for the academic year 2003/2004 was 972 beds, out of which 782 beds are at the TBU Halls of Residence (buildings U6, U7, and U12), 190 beds are in the accommodation facility at Jižní Svahy in the Křiby area (building U13). The building is owned by the company Pozemní stavitelství a. s., Zlín, and is run as a Halls of Residence facility. The Hotel Moskva reserved 50 beds to serve students as interim accommodation until they get a place at the Halls of Residence. A total of 1,022 beds were available. In building U12, repairs are continuing to improve the quality of accommodation.

The average number of accommodated students in the year 2003 was 950.

The total number of submitted applications for accommodation was 1,434; out of which 489 were from first-year students, and 945 from students of other years.

The number of students interested in accommodation prior to the beginning of the school year 2003/2004 was by about 250% higher than in previous years.

The basic rules and criteria for accommodation provision are: commuting time over 50 minutes; final-year students and student officials get extra points in the accommodation provision point system; preference is given to Doctoral students; an individual approach is taken to the students with health and social problems. In the year 2003, CZK 7,969,752 was received in fees for accommodation at the University Halls of Residence (not including the grant from the Ministry of Education, Youth and Sports).

#### Additional Activities

In the period July–September 2003, 1,310 persons were accommodated at the Halls of Residence within the frame of additional activities. The revenues from this activity in 2003 was CZK 1,184,246.

### 11.5.2 Student Catering Services

The total number of meals issued in 2003 was 278,303; out of which 212,966 were meals served to students (compared to 74,029 meals for students in 2002, an increase of over 18%).

The revenues from catering services in the University Refectory were CZK 7,792,792; out of which CZK 4,672,446 were for meals issued to students (not including the grant from the Ministry of Education, Youth and Sports).

## 11.6 Academia Centrum

### **Address:**

Tomas Bata University in Zlín  
Academia Centrum  
Mostní 5139, 760 01 Zlín  
tel. 576 032 206, www.utb.cz.

In 2003, 180 events were organized on the Academia Centrum premises for external clients. These were made up of lectures, workshops, training sessions, company presentations, conferences, congresses, etc.

### **SOME OF THE MOST IMPORTANT EVENTS:**

#### **TBU events:**

- TBU Festive Gathering
- The “Finance and Accounting in Science, Tuition, and Practice” Conference
- The “E-learning in Tertiary Education” Conference
- The “Internet and the Competitive Ability of Enterprises” Conference
- Student Film Festival
- Job Opportunities Fair IAESTE

#### **Events for external clients:**

- The 43<sup>rd</sup> International Film Festival for Children and Youth, Zlín 2003
- The 8<sup>th</sup> Gerontology and Geriatrics Congress
- The 10<sup>th</sup> Congress on Internal Medicine for Practising Doctors
- Meeting of Mayors of the Zlín Region
- Working Meeting of the Physicians’ Association B. Braun Medical
- National Comparative Tests SCIO
- Regional Meeting of the Association of Czech Towns and Municipalities
- The DIAGON 2003 Conference
- The Plastko 2003 Conference
- Workshop of the Czech Pharmaceutical Chamber
- Presentation of Projects for Entrepreneurs from the Zlín Region
- Conference on Land Use Planning and the Building Code
- HuFa Dental 2003
- Opticians Workshop



The full-list of events is available from the Academia Centrum archive. The Report on the economic results of these commercial activities is included in the Annual Report on the TBU Economy.

112 non-profit events were also organized on the Academia Centrum premises to meet the require-

ments of individual Faculties and university entities. Furthermore, there were some charity events organized in cooperation with the Citizen Association ADRA: an informal discussion meeting and video projection from Bangladesh as well as a travelling photograph exhibition.

### **THE ACADEMIA CENTRUM PUBLISHING ACTIVITIES:**

In 2003, a total of 45 titles and 5 workshop proceedings were published, out of which:

- 19 titles for the Faculty of Technology
- 21 titles for the Faculty of Management and Economics
- 5 titles for the Faculty of Multimedia Communications

### 12.1 Important Conferences, Workshops, Honorary Doctorates, and Anniversaries

#### Important Conferences and Workshops Organized by FT

Table No. 56

Title	Date	Organizer / Guarantor
10 <sup>th</sup> International Congress on Composites Nanoengineering ICCE/10	20.-26. 7. 2003	Department of Physics and Material Engineering Prof. Ing. Lubomír Lapčík, Ph.D.
International Conference on Processing and Manufacturing of Advanced Materials	7.-11. 7. 2003	Department of Physics and Material Engineering Ing. Marian Lehotský
Plastko 2003	11.-13. 6. 2003	Department of Polymeric Materials and Technologies Prof. Ing. Josef Šimoník, CSc.
ITC 2003 - International Tools Conference 2003	21.-22. 5. 2003	Department of Production Engineering Doc. Ing. Miroslav Maňas, CSc.
IRS 2003 - International Rubber Symposium 2003	8.- 9. 10. 2003	Department of Production Engineering Doc. Ing. Miroslav Maňas, CSc.
Medical Plastics 2003	27.-30. 10. 2003	Polymer Centre Prof. Ing. Petr Sáha, CSc.
Pharmaceutical and Medical Packaging 2003	13.-14. 5. 2003	Polymer Centre Prof. Ing. Petr Sáha, CSc.
Chemistry and Technology	11. 12. 2003	R&D Department Prof. Ing. Lubomír Lapčík, DrSc.
Computer Technology and Its Technical Applications	8. 12. 2003	R&D Department Prof. Ing. Lubomír Lapčík, DrSc.

Important Conferences and Workshops Organized by FaME

Table No. 57

Title	Date	Organizer / Guarantor
Internet and the Competitive Ability	12. 3. 2003	Department of Informatics and Statistics Prof. Ing. Zdeněk Molnár, Ph.D.
Research into Competitive Ability of Czech Industrial Producers	3. 4. 2003	All-faculty committee for R&D activities Prof. Ing. František Trnka, CSc.
Finance and Accounting in Science, Education, and Practice	22.-23. 5. 2003	Department of Finance and Accounting Doc. Dr. Ing. Drahomíra Pavelková
E-learning in Tertiary Education 2003	4.- 5. 6. 2003	Further Education Centre RNDr. Bedřich Zimola
Analysis of implementation of conditions for the entry of CZ into the Eurozone	3. 12. 2003	Department of Public Sector Administration and Regional Development Doc. RNDr. René Wokoun, CSc.
World of Database 2003	4. 12. 2003	Department of Production Management - Industrial Engineering Centre for Research into Information Systems ČSSI Ing. Petr Sodomka, Ph.D.

Important Conference Organized by FMK

Table No. 58

Title	Date	Organizer / Guarantor
Children and Advertisement (supplementary programme of the International Film Festival for Children and Youth, Zlín 2003)	25.-31. 5. 2003	Department of Marketing Communications, Filmfest Doc. PhDr. Dušan Pavlů, CSc.

### Anniversary

At the festive meeting on 10<sup>th</sup> February 2003 the students, pedagogues, and employees of TBU celebrated the second anniversary of the foundation of the independent University in Zlín. Doc. Ing. Josef Šimoník, CSc., up to now the Head of the Department of Poly-

meric Materials, was at the meeting festively inaugurated the new Dean of the Faculty of Technology. Furthermore, the first Associate Professors habilitated at TBU were nominated, and eight Doctoral degree certificates were presented to the Faculty of Technology graduates.

## 12.2 Other Non-Pedagogical Activities at TBU

In the course of the year 2003, the University and its Faculties organized a number of events, such as Open Doors Days, festive gatherings on the occasion of the Students' Day and Teachers' Day, lectures and informal meetings with significant Czech and foreign personalities with discussions on topical themes. In February, the third University Gala Ball took place. Other University activities include the publication of

a number of books. In 2003, for example, FaME published a book by Miroslav Střítežský "The Heritage of T. Bata to the Businessmen of Today". This is the second volume published in the University edition devoted to spreading the creative ideas of Tomas Bata. Other non-pedagogical activities are mentioned in Chapter 11.6, Academia Centum, and in Chapter 13., Student Care at TBU.

**Note:** TBU is the sole partner of the Technical College, Vocational School, and Apprentice Training Centre Zlín, s. r. o.



## 13. Student Care at TBU

Accommodation and Catering Capacities as of 31. 12. 2003

Table No. 59

Total bed capacity of TBU Halls and Residence	979		
Bed capacity for student accommodation	972		
Bed capacity for employee accommodation	4		
Bed capacity for occasional guest accommodation	3		
Bed capacity of rented facilities	190		
Number of applications for accommodation received in the respective academic year	1,434		
Number of approved accommodation applications as of 31. 10. of the respective academic year	1,323		
Accommodation rates per month	Students	TBU employees	Others
A - Single rooms with joint facilities	1,054 CZK/bed	3,300 CZK/bed	9,585 CZK/bed
B - Multi-bed rooms	1,025 CZK/bed	3,300 CZK/bed	5,250 CZK/bed
C - Other			
Main meal price	Students	TBU employees	Others
	21 CZK	21 CZK	46,80 CZK
Number of main meals issued in the relevant academic year	Students	TBU employees	Others
Total	210,303	32,029	28,027
of this: lunches	121,815	29,858	23,930
a la minute meals	60,337	1,891	3,842
dinner	28,151	280	255

### 13.1 TBU Accommodation Facilities

Table No. 60

	Name and address	Bed capacity for student accommodation
University Facilities	Halls of Residence, Štefánikova 150	196
	Halls of Residence, Antonínova 4379	328
	Halls of Residence, nám. TGM 3050	258
Rented Facilities	Halls of Residence, Křiby 4885	190
<b>Total</b>		<b>972</b>

### 13.2 TBU Catering Facilities

Table No. 61

Name	Maximum daily meal serving capacity
Refectory, Štefánikova 2431	1,500

### 13.3 Scholarships

In 2003, scholarships based on superior achievement were honoured and paid out in lump-sum in June and December to the total of 109 students. Need-based

scholarships were allotted to 8 students. The conditions for the scholarship provision are laid down in the TBU Scholarship Regulations.

### 13.4 Information and Advisory Services

The conception of the future development of the information and advisory services at TBU is set out in the TBU Long-term Aims and Objectives for the period 2001 to 2005. An important element is the use of the internal information network - the intranet, internal television network, TBU web site, and the university magazine "Universalia" issued 4 times a year with 1,200 issues printed each time. The bilingual, Czech

and English magazine is intended to serve the University students, employees and partners in the Czech Republic and abroad.

In 2003, within the framework of the project resolved by FRVŠ, the concept was prepared and the basic material, technical, and personnel conditions have been created for the opening of the TBU Academic Counselling Centre in 2004.

### 13.5 Sporting, Artistic, and other Student Activities

Within the framework of the compulsory physical education, TBU students can choose one of the following sports activities: aerobics, basketball, swimming, body-building, volleyball, floorball, table-tennis, squash, mountain climbing, and all-year-round skiing on an artificial slope. Students with health troubles can attend special physical education classes. Other activities are offered by the University Sports Club (VŠSK), which, in 2003, organized for example a squash tournament, a volleyball tournament, a swimming relay, and an aerobic marathon. During the exam period, students can attend a skiing course at the cottage at Portáš in the Javorníky Mountains. Another important sports event is the yearly Rector's Sports Day, that is a day hiking trip in the Hostýnské and Vizovické Mountains. The summer training camp in Luhačovice offers biking and hiking, as well as canoeing and windsurfing. The most successful sports representatives of our University were swimmers. Ivo Benda won two gold medals at the Czech Academic Olympic Games in Ostrava, one for 100m and the other for 50m free style.

Another gold medal went to our 4x50m relay team composed of Ivo Benda, Pavel Boháč, Ondřej Sýkora, and Miroslav Štrauf. At the Academic Championship in Brno, Tomáš Podoba won the first place in 400m run.

There are also extensive opportunities for cultural life. Thanks to the cooperation with the Zlín Municipal Theatre and the Bohuslav Martinů Philharmonic Orchestra, the students can make use of favourably priced season tickets. Also the TBU Academia Centrum organizes a number of events for free time enjoyment. As a part of their study programme, students of the Faculty of Multimedia Communications prepared some significant cultural and social events for the public, such as the Miss Academia of the Czech Republic, May Festival, Theatre Festival in Luhačovice ("Divadelní Luhačovice"), literary festival Literary May ("Literární květen"), festival devoted to J. A. Komenský called "Uherskobrodské dny J. A. Komenského", Student Film Festival, and others. Apart from this, the students publish their own magazine called "Kousek".



## 14. Development of the University

The third year of the existence of the Tomas Bata University in Zlín brought further dynamic phase of investment development.

After the projecting and preparatory works, 9 plans were realized according to the plan of the Committee for Construction and Dislocation in the categories:

Buildings reconstruction, Repairing seriously damaged facilities, and Communications infrastructure.

In 2003, there was a significant progress achieved in both strategic investments that are in progress, which means an important step towards ensuring the University's operation in years 2005–2010.

### 14.1 Resources from the Government Budget for Property Reproduction

333 311 4701	Reconstruction of the former 13 <sup>th</sup> elementary school into the university premises	164.357 mil. CZK 5.5 mil. CZK
233 34U 4701	Purchase of a complex of buildings in Zlín	11.9 mil. CZK
233 34U 4704	Repairs and reconstruction in building U 12 – stage III.	4.4 mil. CZK
233 34U 4702	Repairs of buildings and constructions in 2003	1 mil. CZK
233 34U 4703	Machinery and Equipment 2003	2 mil. CZK

### 14.2 Other Investments

#### Category A - STRATEGIC INVESTMENTS

The category “Strategic Investments” involves large-scale investments that are significant for the final organization and dislocation of the University. The aim is to prepare adequate facilities for the target number of students, 7,000, before the start of the academic year 2006/2007, in accordance with the TBU Long-term Aims and Objectives.

#### A1) Reconstruction of the former 13<sup>th</sup> elementary school into the university premises, U5

The reconstruction of the buildings of the former 13<sup>th</sup> elementary school into a university complex started in 2002, and in 2003 continued according to the schedule towards the completion and handover date in April 2004. In the course of the year, the fabric of all buildings in the complex was completed, and completion of building works and technological operating sets was started.

According to the schedule, 170 mil. CZK out of the total 314 mil. CZK were invested in 2003.

In the modern teaching spaces, the following University components will be housed: the future fourth faculty oriented on automated control and applied informatics, some departments of the Faculty of Technology, and selected workplaces of the whole-university departments.

Financial Resources 2003:	MŠMT	169.857 mil. CZK
	TBU	413 mil. CZK

<b>Realization Date:</b>	<b>01/2002–04/2004</b>	<b>Total cost 2003:</b>	<b>170.270 mil. CZK</b>
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#### A2) University Centre in Zlín

Throughout the year 2003, special attention was paid to project and legal preparations for another strategic investment – construction of the University Centre in Zlín.

From the regional point of view, the unique project by the world-known architect Prof. Eva Jiříčková prepares the construction of a new **University Library** with the capacity of 300 thousand volumes, 450 study places, and 7,000 users. The **TBU Centre**, the seat of academic, operational, informational, and special workplaces controlled directly by the University management.

After significant and successful negotiations with the Ministry of Education, Youth and Sports, and the Ministry of Finance, regarding financing the construction, the following documents were prepared and elaborated in the course of the year 2003:

An architectonic study, primary calculation of expenses, model of the construction in the in the scale 1:200, engineering and geological examination of the construction site, documentation of the influence of the environment,

concept of the operational and technical part of the construction and documentation for the general planning proceedings.

Positive standpoint was obtained from all relevant state authorities and other parties involved in the proceedings, and planning decision for the construction was issued in January 2004. The construction works are scheduled for years 2004–2006.

Financial Resources:	TBU		3.598 mil. CZK
<b>Realization Date:</b>	<b>2004–2006</b>	<b>Total cost 2003:</b>	<b>3.598 mil. CZK</b>

### Category B - COMMUNICATION INFRASTRUCTURE

In the year 2003, the investment in the category of communication infrastructure was used towards the completion and reconstruction of TBU buildings. Gradual interconnection of all University buildings through the fibre-optic cable network enables wider use of modern information technologies as well as larger volumes necessary for data exchange.

#### B1) Extending the TBU backbone data network to complex U5

The university complex U5 is connected to the building U1 and the backbone data network, which, in advance, ensures the operation of the computer network and telephone cabling in the complex. Fibre-optic cable is carried above ground for about 1 km, and after the complex is completed, it will be connected to the complex data switchboard and to the high-speed academic network.

Financial Resources:	TBU		1.305 mil. CZK
<b>Realization Date:</b>	<b>07-08/2003</b>	<b>Total cost:</b>	<b>1.305 mil. CZK</b>

#### B2) Extension of the TBU backbone data network to building U2

During the reconstruction of the building U12 (which was purchased in 2002), the connection to the backbone computer network was created. The fibre-optic cable is carried in the ground for 55 m and connected to the existing optical connector for buildings U1-U3.

Financial Resources:	TBU		67 thousand CZK
<b>Realization Date:</b>	<b>10/2003</b>	<b>Total cost:</b>	<b>67 thousand CZK</b>

#### B3) Structures cabling in building U12 - I. Stage

In relation to the completion of the III. stage of repairs and reconstruction to the building, the network was implemented into a half of the 5<sup>th</sup> floor through structured cabling (studios for pedagogues accommodation), including the fibre-optic cable connection and installation of active elements.

Financial Resources:			405 thousand CZK
<b>Realization Date:</b>	<b>10/2003</b>	<b>Total cost:</b>	<b>405 thousand CZK</b>

### Category C - PREPARATION OF INVESTMENTS

For activities that the Committee for Construction and Dislocation plans for the year 2004 and later, the materials were prepared beforehand: expert's reports, studies, project documentation, etc. The activities concerned are:

- Exchange of technological equipment of the calorifier room in the building U 10
- Extending the backbone computer network into the building U1
- General reconstruction of the building U12 – stage IV.
- Putting the building U3 into operation for the Regional Innovation Centre
- Repairs and reconstruction of ceiling and lights in 3<sup>rd</sup> and 4<sup>th</sup> floor of the building U10
- Multimedia Language Laboratory
- Outdoor University Orientation Systems in line with the unified visual style
- Reconstruction of 5<sup>th</sup> floor (2<sup>nd</sup> floor) in the building U1 into the laboratories for the Department of Food Engineering
- Reconstruction of laboratories No. 112 through 116 in the building U1
- Repairs and reconstruction of the training centre P. – stage III

## 14.3 Reconstruction and Maintenance of the University Buildings

### Category D - RECONSTRUCTION OF BUILDINGS

Works in the category Buildings reconstruction were started after the end of the academic year 2002/2003. The works had to be carried out and finished in rather a short time, during the summer holiday, so that everything was prepared for the beginning of the new academic year.

#### D1) Repairs and reconstruction of the building U12 - stage III.

In the building U12 the III. stage of repairs and reconstruction was started and led to increasing the modern accommodation capacities and also improvement of safety of the building.

After the previous stages of reconstructions of 2<sup>nd</sup>, 3<sup>rd</sup>, and 4<sup>th</sup> floors in the eastern part of the building, repairs and reconstruction continued in the 5<sup>th</sup> floor. Newly built five studios of higher standard will serve for accommodation of visiting pedagogues.

Furthermore, the staircase in 1<sup>st</sup> through 5<sup>th</sup> floor was reconstructed, including the construction of server room, new reception area, common rooms and lift shaft.

In all reconstructed spaces, new doubled EURO windows were installed.

In order to increase the fire protection safety, a number of steps were taken - creation of a protected escape route, water supply system, installation of fire hydrants, sound signalling, emergency lights, etc.

Financial Resources:	MŠMT	4.400 mil. CZK
	TBU	8.061 mil. CZK
<b>Realization Date:</b>	<b>08-10/2003</b>	<b>Total cost: 12.461 mil. CZK</b>

#### D2) Reconstruction and modernization of lifts in the building U1

Due to aging of both lifts in the five-floor building U1, they were modernized: whole machinery and control electronics were exchanged and new lift doors and entrance panelling were installed.

Financial Resources:	TBU	1.626 mil. CZK
<b>Realization Date:</b>	<b>08-10/2003</b>	<b>Total cost: 1.626 mil. CZK</b>

#### D3) Reconstruction of wiring in the building U1 - stage I

On the basis of the audit report, the condition of the wiring in the building U1 was evaluated and found barely within the operational safety limits. It was necessary to take action immediately, and so the complete reconstruction of wiring started in 2003, including the replacements of lights and partial replacement of ceilings.

In stage I., the 5<sup>th</sup> and 6<sup>th</sup> floors were reconstructed, new backbone distribution cabling was installed, and all circuits were switched to the new distribution boards, which ensure sufficient reserve for connection of all current and future electric appliances.

Financial Resources:	TBU	2.464 mil. CZK
<b>Realization Date:</b>	<b>07-08/2003</b>	<b>Total cost: 2.464 mil. CZK</b>

#### D4) Repairs and reconstruction of the training centre Portáš

The frequent use of the training centre Portáš is reflected in its condition, and the need for gradual repair arose. In 2003, financial resources were used for new equipment of the kitchen.

Financial Resources:	TBU	80 thousand CZK
<b>Realization Date:</b>	<b>07/2003</b>	<b>Total cost: 80 thousand CZK</b>

### Category E - REPAIRS OF SERIOUSLY DAMAGED FACILITIES

In urgent cases, the following repairs were carried out to remove serious damage of technological equipment:

#### E1) Exchange of the technological equipment in the calorifier room in building U1

The old equipment for primary steam circuit was removed, including the water heating technology, and new technologies were implemented.

Financial Resources:	TBU		284 thousand CZK
<b>Realization Date:</b>	<b>06-07/2003</b>	<b>Total cost:</b>	<b>284 thousand CZK</b>

#### E2) Repair and insulation of the membrane roofing of building U10

The building U10 was built in 1940s and acquired by the University in the year 2002. Expert's report stated that the technical condition of the membrane roofing is beyond repair and needs replacement, due to the previous insufficient maintenance.

The degraded roof structure was completely removed and replaced with modern insulation materials with long durability, as were the roof drains. Thorough thermal insulation ensures lowering of heat loss and consequently to savings on the building heating in winter time.

Financial Resources:	MŠMT		1,000 mil. CZK
	TBU		2,518 mil. CZK
<b>Realization Date:</b>	<b>08-11/2003</b>	<b>Total cost:</b>	<b>3,518 mil. CZK</b>



*In the course of the year 2003, intensive construction works were underway at the university complex in Jižní Svahy in Zlín. The new complex for 1,500 students will be opened for lessons in September 2004, and will serve primarily the Faculty of Technology.*



## 14.4 TBU Involvement in the Transformational and Development Programmes for Public Universities in 2003

Table No. 62a

Development Programmes for Public Universities	Number of Projects Submitted	Number of Projects Accepted	Allocated Financial Resources in thousand CZK
Programme for support and development of educational activities at public universities	29	24	45,770
Programme for support of Lifelong Learning	4	4	1,310
Programme for support of study programmes guaranteed by a public university and implemented at professional secondary schools	5	1	263
Programme for support of the integration of disabled students; providing equal opportunities in education for students from variously disadvantaged social groups	1	0	0
Programme for support of improving information and technical infrastructure for educational activities and management at public universities	3	3	9,062
<b>Total</b>	<b>42</b>	<b>32</b>	<b>56,405</b>

Table No. 62b

Programme for Support of the International Mobility of Public Universities Students	Number of Students	Allocated Financial Resources in thousands CZK
Student mobility based on international contracts	0	0
Student mobility on the basis of direct contractual cooperation	1	80
"Free movers"	0	0
<b>Total</b>	<b>1</b>	<b>80</b>

## 15. Activities of the Board of Governors

In the year 2003, the Board of Governors convened twice. Its fifth meeting took place on 30<sup>th</sup> April 2003 at TBU in Zlín. The Board of Governors discussed the proposed Annual Report on the TBU Activities and on the TBU Economy in 2002, and updating of the Long-Term Aims and Objectives of TBU in Zlín. The Board expressed their agreement with the progress of preparations for the investment into the Cultural and University Centre in Zlín, and with the cooperation with the Statutory Town of Zlín. The Board also agreed that the architectonic study should be prepared by the studio AI Design, s. r. o., Prague (by the author, Prof. Eva Jiříčná), the investment plan for the given construction complex should be proposed, and the land for the construction should be obtained.

Prof. Eva Jiříčná attended the 6<sup>th</sup> sitting of the TBU Board of Governors, which took place on 19<sup>th</sup> Sep-

tember 2003 in Prague in the building of the Parliament of the Czech Republic. Prof. Jiříčná introduced the project for the Cultural and University Centre to the members of the Board.

In its resolution, the Board recommended the project for realization. The TBU Rector, Prof. Petr Sába, in his presentation mentioned the University's achievements in the first 1000 days of its existence (raising student numbers, newly opened study programmes, international mobility of students and pedagogues), but also the difficulties with the lack of accommodation spaces. The Bursar, RNDr. Alexander Černý informed the Board of investments in 2003, especially of the final stages of the construction of the University complex at Jižní Svahy in Zlín, which is expected to be completed in April 2004.

## 16. Conclusion

During the three years of its existence, the Tomas Bata University in Zlín achieved an overall stabilization, and became equal to other Czech universities. The University provides the highest education in the region, and supports the development of education at Higher Technical Schools. In the future, the University's priorities continue to be its internationalisation, and establishing its position within the network of European universities with similar specializations, so that TBU will become their equal partner.

TBU's significant achievements in pedagogical activities include: obtaining the accreditation for the study programme Pedagogy with a study course in Social Pedagogy, the transfer of the study programme Chemistry and Food Technologies from the Military University of the Ground Forces in Vyškov to the Faculty of Technology at TBU in Zlín, and the launch of education in the food industry oriented study courses at TBU. One of the most challenging tasks that has to be

dealt with in the near future is the establishment of a new faculty oriented towards automated control and applied informatics, and the preparation of a faculty of humanities.

In regards to the personnel policy, TBU will continue to strive to obtain the top professional level and internationalisation of the personnel structure.

An important task in the field of research and development is to increase the creative potential of the University, especially by increasing the number of scientific workers and by increasing the volume of applied and industrial research. Of a crucial importance for both the University and the whole Zlín region will be making the University Institute fully functional. It will serve as a pedagogical as well as R&D incubator. The most significant investment task is putting into use the university complex at Jižní Svahy in Zlín. Towards the end of the year 2004, the construction of the Cultural and University Centre is to start.

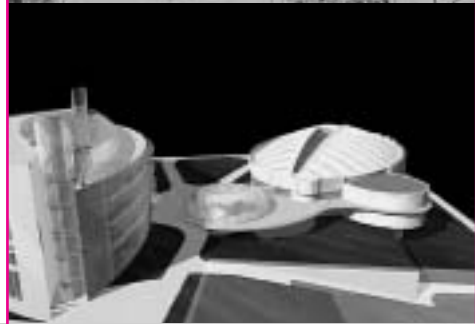


### The New University Library

As the number of students increases, the capacity of the Central Library becomes insufficient. Therefore, the University has prepared a project for a new library, which will be part of a building complex called the Cultural and University Centre.

The author of the project is the world-known architect Prof. Eva Jiřičná, a native of Zlín.

The project is to be carried out in the years 2004–2006.



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## List of Abbreviations

TBU	Tomas Bata University	AC	Academia Centrum
AS	Academic Senate	ÚK	Central Library
FT	Faculty of Technology	VOŠ	Higher Technical College
FaME	Faculty of Management and Economics	RVŠ	Czech Council of Higher Education Institutions
FMK	Faculty of Multimedia Communications	GA ČR	Grant Agency of the Czech Republic
IIT	Institute of Information Technologies	FRVŠ	Universities Development Fund
KMZ	Halls of Residence and Refectories		

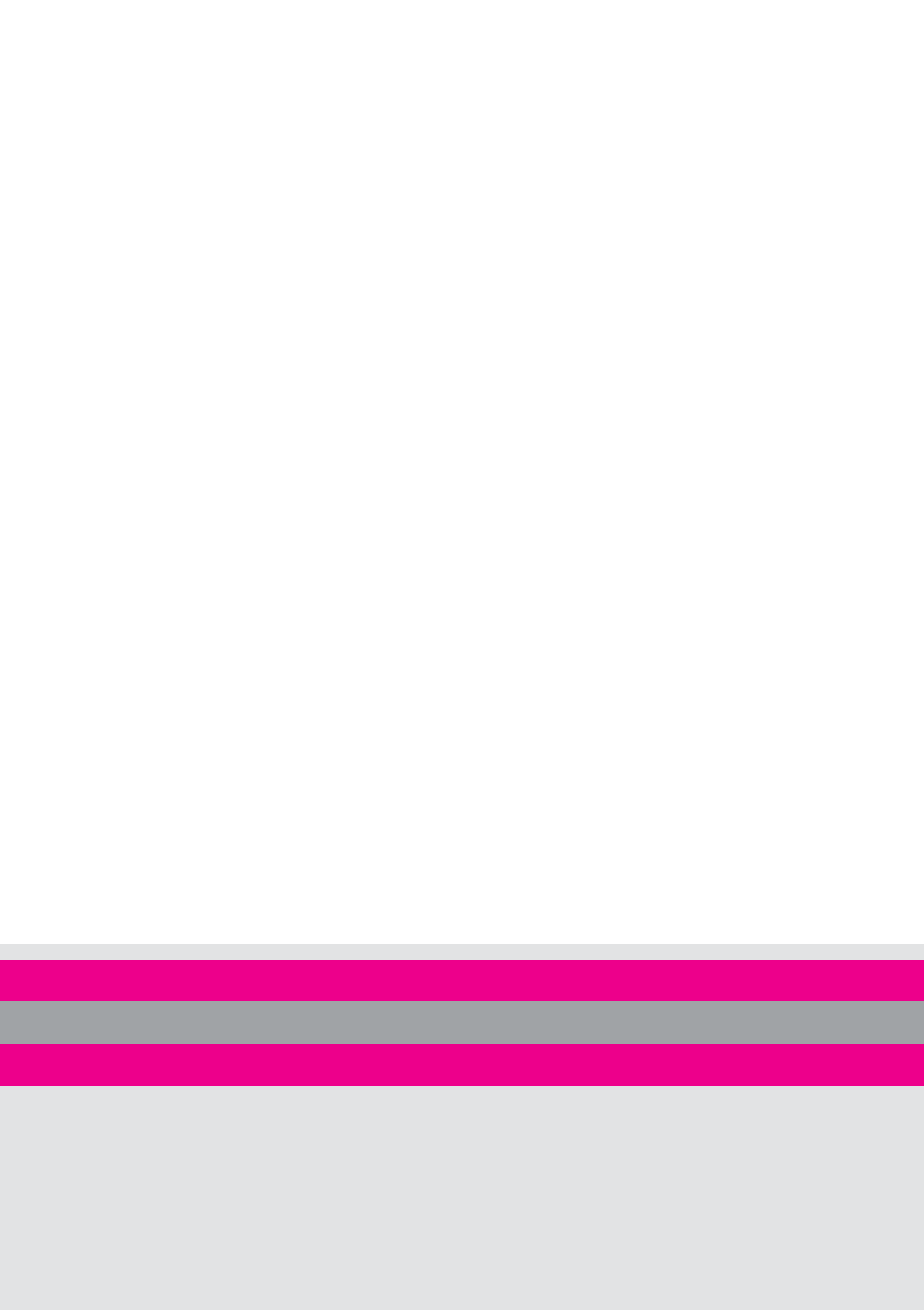


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