

## DEVELOPMENT OF THE STU FACULTY OF MATERIALS SCIENCE AND TECHNOLOGY IN 2013

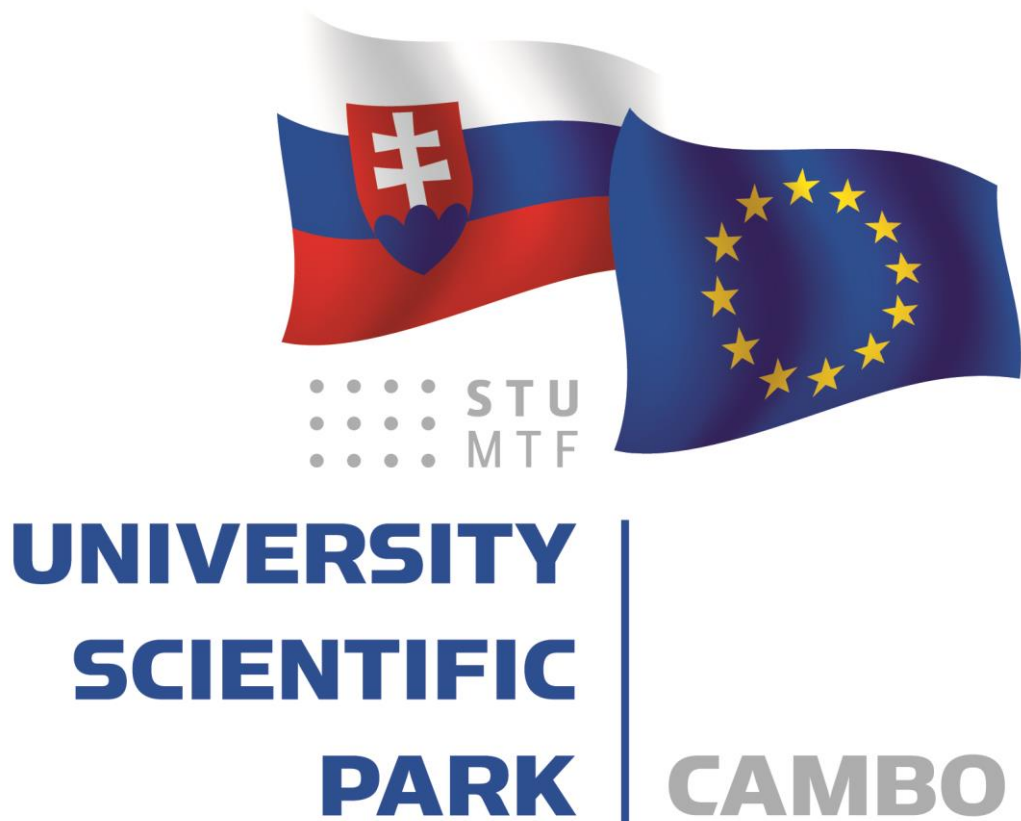
**The priorities of development** in 2013 were as follows:

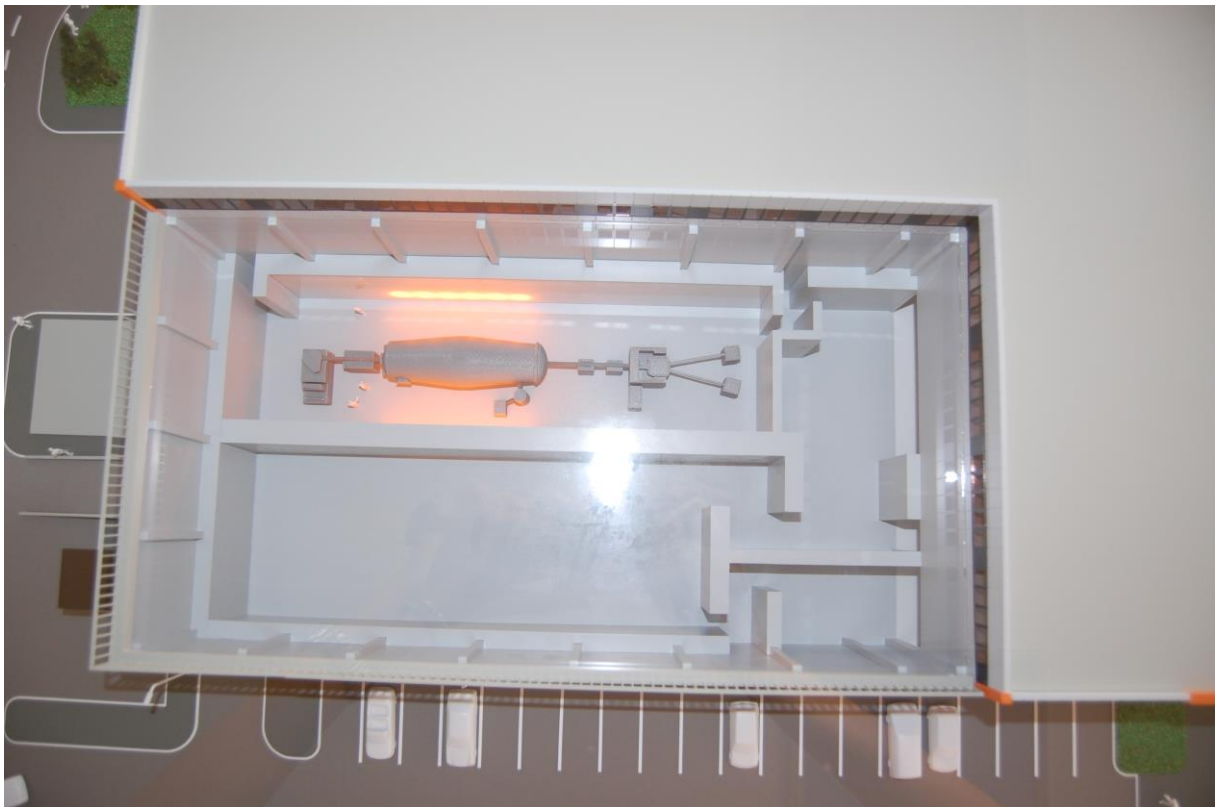
The **long-term plan** of STU MTF development for the period 2012 – 2017 and the update of the long-term plan of the Faculty development were approved in November 2013.

**Key activities of the Faculty development in 2013:**

15/03/2013      **Signing of the Contract to create the first University Scientific Park in Slovakia**

17/05/2013      **Kick off Meeting of the University Scientific Park**





## The First University Scientific Park in Slovakia

The **University Scientific Park** is primarily focused on Materials Engineering in the field of ion and plasma technologies, automation and ICT implementation in industrial processes. The project comprises of two new buildings for the purposes of research, located on the Bottova campus.

Specific goals of the project are as follows:

- **Increasing the long-term competitiveness of the SR in the area of materials research based on ion and plasma technologies.**
- **Training the scientific and research personnel for URP CAMBO – workplace for materials research.**

Within the project, STU MTF will build two new research centres equipped with the most advanced technologies:

### **1/ Scientific Centre of Materials Research, with laboratories comprised of the:**

Laboratory of ion beam technologies  
Laboratory of plasmatic modification and deposition  
Laboratory of analytical methods  
Laboratory of computational modelling.

### **2/ Scientific Centre of Automation and ICT Implementation in Production Processes, with laboratories, comprised of the:**

Laboratory of control systems  
Laboratory of ICIM  
Laboratory of information integration and control systems.

Besides creating the two new workplaces and purchasing unique technologies for materials research and research in the field of automation and ICT implementation in production processes and the related laboratories, **the additional activities** are planned:

### **3/ Applied research in the above-mentioned research centres**

**4/ Support to transfer the advanced technologies into practice**, transfer of know-how, innovations and knowledge from the academic environment into practice and providing support for start-up and spin-off activities.

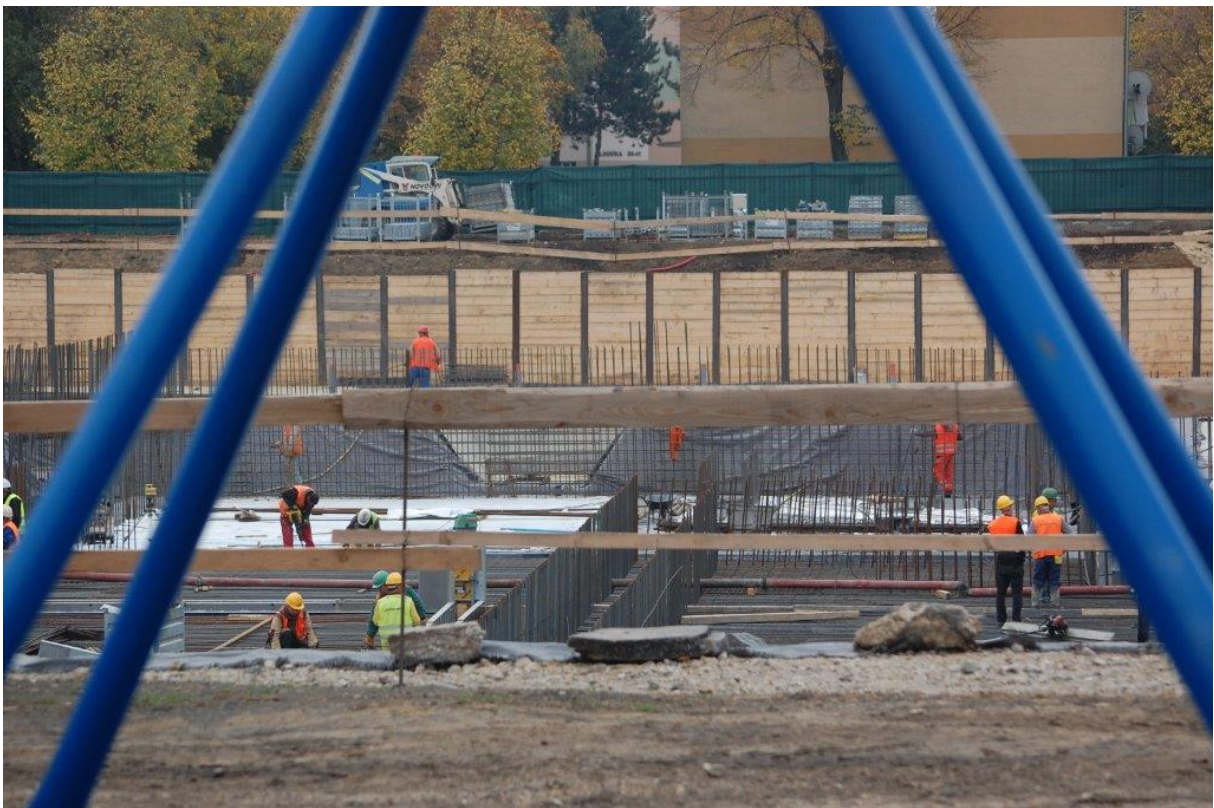
## **Building the University Scientific Park:**

<b>Operational programme:</b>	Research and development
<b>ITMS code:</b>	26220220179
<b>Provider:</b>	Ministry of Education, Science, Research and Sport of the Slovak Republic
<b>Start of the project:</b>	01/03/2013
<b>Completion of the project:</b>	30/06/2015
<b>Venue:</b>	① J. Bottu 25, 917 24 Trnava ② Botanická 49, 917 24 Trnava
<b>Investor:</b>	Slovak University of Technology in Bratislava
<b>Volume of funding:</b>	42 105 262.43 € (for the whole University Scientific Park)
<b>Sources of funding:</b>	85% EU structural funds 10% state budget 5% recipient

**Stage 1 of the construction** started by building the pavilion of **Materials Research – Slovakiion.**

**Contractor of construction:** ZIPP a.s. Bratislava

**Financial value of the construction and technology including laboratories:** 25 330 141 €



## Awards in 2013:

For the best results achieved for co-operation with practice and contribution in 2013:

doc. Ing. Martin Kusý, PhD. (Institute of Materials)

### Research infrastructure projects in 2013

Institute/workplace	Operation programme	ITMS	Title of project	Time Period of Project
Faculty of Materials Science and Technology	Research	26250120053	A comprehensive modernisation of material and non-material (information and communication) educational infrastructure of the Bottova Campus	10/2012-09/2014
Faculty of Materials Science and Technology	Research	26110230116	The development of human resources in the field of research and development for the material research Workplace of the Institute of University Scientific Park_CAMBO	10/2013-06/2015
Institute of Production Technologies + MIKON, s.r.o.	Research	26220220137	Industrial research into silent blocks for excessive load under extreme temperatures in the field of industrial application	11/2011-10/2015
Institute of Materials Science	Research	26220220137	Industrial research into silent blocks for excessive load under extreme temperatures in the field of industrial application	11/2011-10/2015
Institute of Materials + VUJE, a.s.	Research	26220220077	Increasing the power security of the Slovak Republic	07/2010-12/2013
Institute of Applied Informatics, Automation and Mathematics	Education	26110230042	Implementation of the internal system of quality assurance in education	01/2012-12/2013
Institute of Applied Informatics, Automation and Mathematics + Qintec, s.r.o. Trnava	Research	26220220159	Research into monitoring and assessing the non-standard states in the vicinity of a nuclear power plant	04/2012-09/2014
Institute of Industrial Engineering, Management and Quality	Education	26110230115	Centre for the development of competencies for the field of Industrial Engineering and Management	10/2013-09/2015
Institute of Industrial Engineering, Management and Quality	Education	26110230055	Rationalisation and improvement of the industrial management study programme to support career guidance	01/2012 -12/2013
Division of Knowledge Management	Education	26110230113	Knowledge-based Faculty for economic practice	10/2013-09/2015
Research Centre of Progressive Technologies	Research	26210120017	Centre for research and development in the field of the electron-beam and progressive arc technologies of welding, cladding and surface-finishing (WeldCenter)	10/2012-03/2014

Institute of Production Technologies	Research	26210120020	Technical infrastructure of research and development for the field of the contact and contact-free methods of measurement	10/2012-03/2014
Faculty of Materials Science and Technology	Research	26220220179	University Scientific Park „ CAMPUS MTF STU“ - CAMBO	03/2013-06/2015
Research Centre of Progressive Technologies	Education	26110230116	Human Resources Development in the field of research and development for the UVP-CAMBO	10/2013-06/2015
Faculty of Materials Science and Technology and Faculty of Civil Engineering Bratislava	Research	26250120070	Complex modernisation of the educational, material, information and communication infrastructure of the CAMPUS Bottova II, and reconstruction of the Kočovce training centre	04/2014-10/2015

**This part was verified by prof. Dr. Ing. Jozef Peterka**