

Research 2014

Research Awards in 2014:

04/06/2014

“Teach me how to understand science” competition – contribution “How a rainbow emerges” by the authors Ing. Jakub Franík, Ing. Peter Cuninka, Ing. Andrea PETERKOVÁ (doctoral student in UIAM MTF), 4th place.

Summer 2014

The best poster in the ISMANAM Conference in Cancun (Mexico): Eva Babalová and Mária Behúlová

02/09/2014

The Institute of Sustainable Social Responsibility of Czech and Slovak Republics o.p.s., granted the 2nd place to the STU MTF Institute of Industrial Engineering and Management in the competition "Sustainable Social Responsibility of the Czech and Slovak Republics in 2013". The competing team was led by Prof. Ing. Peter Sakál, CSc.

17/09/2014

The Dean of the TU Faculty of Mechanical Engineering in Košice awarded a platinum medal to Dr.h.c. Prof. Dr. Ing. Oliver MORAVČÍK for successful cooperation and support.

14/ 10/2014

STU Rector Prof. Ing. Róbert Redhammer, PhD. presented the award for the most successful project of young researchers in STU MTF to Ing. Eva Babalová, PhD.

02/10/2014

The TTSK award was presented to Dr.h.c. Prof. Dr. Ing. Oliver MORAVČÍK for outstanding contribution to science and educational development.

5/12/2014

The STU Rector's Award of “Professors and Scientists of the year 2014”

Dr. h. c. Prof. Dr. Ing. Oliver MORAVČÍK – for outstanding achievements in education, research and development activities in the field of automation and applied informatics.

Mgr. Marián PALCUT, PhD. – for a complex study of degradation processes in new and perspective materials.

20/11/2014

Award of the SR Office for Standardisation, Metrology and Testing “National Award of the Slovak Republic for Quality 2014 – for life-long contribution in the field of quality” to Prof. Ing. Alexander LINCZÉNYI, CSc. – STU MTF Professor Emeritus.

12/12/2014

The STU MTF Dean's Award in the following categories:

BEST DISSERTATION THESIS

Ing. Alica Bartošová, PhD.

Ing. Delgado Sobrino Daynier Rolando, PhD.

Ing. Michaela Samardžiová, PhD.

BEST HABILITATION THESIS

doc. Ing. Jana Šugárová, PhD.

CONTRIBUTION IN THE FIELD OF THE FACULTY RESEARCH AND ACCREDITATION

Prof. Ing. Alexander Čaus, DrSc.

Prof. Ing. Jozef Janovec, DrSc.

Ing. Jozef Martinka, PhD.

doc. Mgr. Róbert Vrábel, PhD.

RNDr. Marcel Abas, PhD.

doc. Ing. Mária Dománková, PhD.

doc. Ing. Roman Kolečák, PhD.

RNDr. Maroš Sirotiak, PhD.

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doc. Ing. Pavol Božek, CSc.

doc. Ing. Peter Pokorný, PhD.

ENTREPRENEURIAL ACTIVITY

doc. Ing. Marián Hazlinger, PhD.

New Doctors honoris causa, Professors and Associate Professors in 2014

Doctor honoris causa (Dr.h.c.)

Dr. h. c. Ing. Peter Doll - Doctor honoris causa (25/11/2014)

Professors

Prof. Ing. Pavol Tanuška, PhD. - Automation (26/05/2014)

Prof. Ing. Ľubomír Čaplovič, CSc. - Materials (19/11/2014)

Associate Professors

doc. Ing. Ladislav Morovič, PhD. - Machine Technologies and Materials (02/07/2014)

doc. Ing. Jana Šugárová, PhD. - Machine Technologies and Materials (02/07/2014)

doc. Ing. Daniel Švrček, PhD. - Production Systems (02/07/2014)

doc. Ing. Michal Kopček, PhD. - Automation (10/12/2014)

doc. Ing. Richard Kuracina, PhD. – Occupational Health and Safety (10/12/2014)

Research activities in 2014

20/01	Meeting at MTF with the STU Rector and vice-rectors regarding the Call for Horizon 2020 projects
12/02	Opening ceremony of the Laboratory of Flexible Production Systems with robotised operation for the conditions of drawing-free production
20/03	Student Research Conference
24/04	Doctoral Conference
25/04-26/04	Festival of Science - European Forum for Innovation 2014
20/05-23/05	Presentation of STU MTF at the TECHFORUM 2014 Fair
18/07	Film festival at STU MTF
28/08	Signed Agreement on the next stage of the USP construction - Research workplace of Automation and ICT Implementation in Production Processes and Systems with laboratories
04/09-05/09	Summer School of Young Mechatronic Trainees
10/09	Opening ceremony of the 2nd phase of UVP construction
26/09	Night of researchers – participation of STU MTF
29/09-03/10	International Engineering Fair in Brno - participation of STU MTF

Overview of conferences organised at STU MTF in 2014:

08-10/02	9 th project meeting, excursion and final conference within the project of "AUTOCLUSTERS"
10/04-11/04	ECIC 2014 - The 6 th European Conference on Intellectual Capital
24/04	Doctoral Conference
19/05-21/05	International Doctoral Seminar Zielona Góra 2014
26/05	ESAB 2014
03/09-06/09	Forming 2014
25/11	Seminar on intellectual property in STU
03-04/12	Seminar "Special applications and technologies DMG MORI".

Research Focus

The research orientation of the Faculty of Materials Science and Technology corresponds with its pedagogic Profile and the long-term orientation of STU. As amended by Section 30, Paragraph 1, Sub-paragraph c of Act 131/2002 of the Coll. relating to Universities and as amended by other acts, the Faculty Scientific Board evaluates the faculty activity in the field of science and technology once a year.

The scientific and research activity of STU MTF research and pedagogical staff is carried out in the following forms:

- projects of basic research
- projects solved within international programmes
- projects of international collaboration
- projects of applied research and development
- projects of contractual research

The research content is focused on the following areas:

- materials research with a focus on the research, development and technological processing of the basic and new kinds of technical materials,
- research, development and optimisation of new technologies of industrial production oriented particularly on the technological processing of modern technical materials and ecologically clean processes and products and the numerical simulation of technological processes,
- process identification, automation and control, as well as information support for technological, production and organisation systems,
- research and verification of managerial control principles and their organisation structures,
- quality control and certification of processes and products,
- safety and reliability of technological equipment and systems, while emphasising the analysis methods and systems synthesis,

The STU Faculty of Materials Science and Technology in Trnava was evaluated in four areas of research in the complex accreditation of activities. The research areas related to the faculty study programmes are:

Research area	Evaluation
Mechanical Engineering	A
Metallurgy and Materials	A
Information Sciences, Automation and Telecommunication	B
Engineering and Technology	B+

Research activities

In 2014, research projects under the VEGA, KEGA, APVV and other programmes were conducted at the Faculty. The number of projects in 2014 from the particular agencies, grant schemes and contractual research are as follows:

	Number
VEGA projects (Scientific Grant Agency)	25
KEGA projects (Cultural and Educational Grant Agency)	11
APVV (Slovak Research and Development Agency)	6
7th Framework Programme	1
Other foreign projects	2