



Palacký University  
Olomouc



ANNUAL REPORT

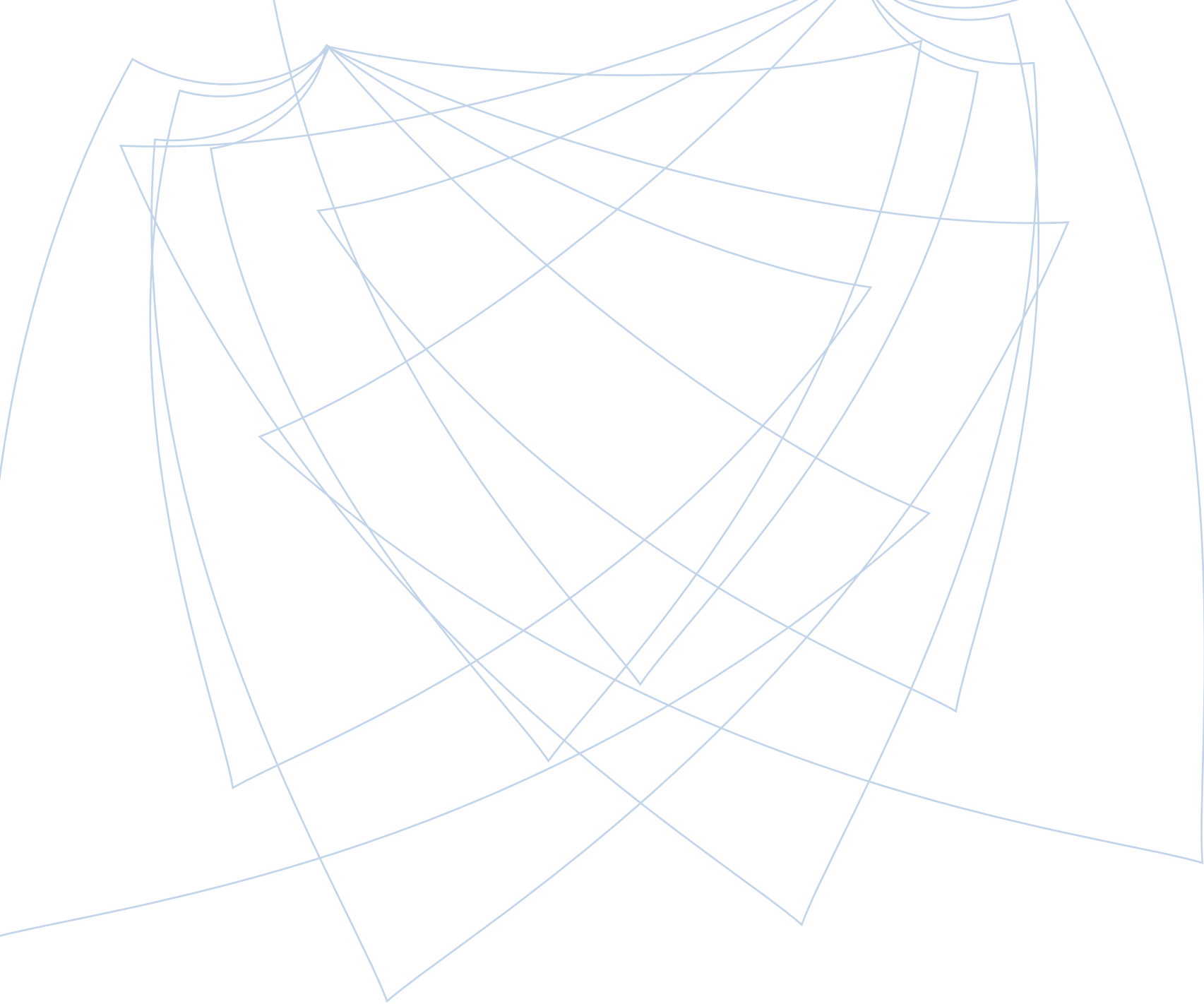
2015



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**Jaroslav Miller**  
Rector, Palacký University Olomouc

## A Word from the Rector

*In 2015, Palacký University made substantial progress in its path towards being an internationally respected European university with top scholarly performance. This has been proven by its significant gains in global university rankings.*

*Because having a more visible position in the international arena is one of our main goals, the university leadership has decided to modify the traditional form of our annual report, in two respects. An English version of the annual report makes possible better presentation of the strides in academia to our foreign partners and colleagues in a wide range of areas – from teaching and research to student mobility. The second change introduces the use of statistics. Database comparison of statistics from the years 2013, 2014, and 2015 shows both the dramatic expansion of Palacký University and also the character of its gradual structural changes. Two which should be mentioned are the increasing share of students in Master's and doctoral programmes as compared to Bachelor's programmes, and the fact that in 2015, roughly 60% of our academic and scientific findings were published in international journals. The data correlates with the role which Palacký University plays in the fields of science and research – and not just in the Czech Republic, but more and more in the European and global contexts.*

*In 2015, there was also a substantial increase in the number of foreign students studying at Palacký University, who at present make up nearly 10% of the student population. In the past year the university has also opened its science popularisation centre, the Fortress of Knowledge; the Student Career and Counselling Centre began its activities; and the university information centre UPoint went into operation. For Palacký University, 2015 was a successful year in all respects. I firmly believe that in 2016, the development of this important educational and research institution will continue.*





# 2015 at UP

## A Calendar of Noteworthy Events

### January

#### The Three Wise Men go caroling at the Rector's Office

Caspar, Melchior, and Balthazar were brought by a shooting star to the Rector's Office on January 6. At the opening of the management meeting, the Three Wise Men announced the birth of Jesus Christ and wished a Happy New Year to everyone. The financial gifts collected were allotted for homeless persons, single mothers, and everyone who is in a desperate life situation. The Three Wise Men collection was organised by Caritas for the fifteenth time.

#### Open House Day: varied programme and TV Óčko

Hundreds of young people interested in studies at UP filled the halls, classrooms, offices, and laboratories of its eight faculties. They obtained information on UP study programmes, requirements for admission, preparatory courses, and the possibilities of employment after graduation. In addition, experiments, tests, and quizzes were held. Open House Day was featured on Czech music channel TV Óčko with UP alumnus Albert Černý, the frontman of the groups Charlie Straight and Lake Malawi.

#### How to get an egg out of its shell without peeling it?

Curious children who would love to try studying at university may apply, via their parents, to the Children's University at UP. It is designed for pupils from 8 to 12 years-old who wish to peer into various scientific disciplines. The programme consists of 10 interactive lectures. One of the novelties was the introduction of the culture and language of Spain. The UP Children's University has been in operation since 2007.

### History of Czechoslovak Comics in the 20th Century

The three-volume History of Czechoslovak Comics in the 20th Century, with 550 colour reproductions, is the most extensive and erudite mapping of the history of comics in this country. The volumes follow the development and history of the comic form in today's Czech Republic and Slovakia in periodicals from the late Austro-Hungarian Empire to the rapid boom after 1989. This unique publication was launched during a ceremony on January 29.

### February

#### UP placed 3rd among non-art schools

Financing of public universities was newly based on science and research achievements as well as on publications in the arts. Palacký University, with 1977 points in the latter, placed third among Czech non-art schools, particularly thanks to activities performed by members of the UP Faculties of Education and Arts. The Faculty of Education received 1395 points, due to 23 authors with 122 certified works. The Faculty of Arts received 582 points for the artistic output of its pedagogues.

#### The Faculty of Physical Culture's strategy for supporting physical activity

Experts from the Faculty of Physical Culture have contributed to forming a national strategy to support physical activity. The head of the Department of Recreation, Zdeněk Hamřík, was also chosen to represent the Czech Republic at a meeting on the forming of a European strategy for the coming decades. The meeting with representatives of European countries on a strategic document aimed at increasing the level of movement activity took place in Switzerland.



## Peter Tavel Inaugurated Dean of the Faculty of Theology

Peter Tavel was installed in the office of Dean of the Sts Cyril and Methodius Faculty of Theology on February 17. He took the inauguration oath in the Ceremonial Hall of the Archbishop's Palace in Olomouc and received the Dean's insignia from Rector Jaroslav Miller. The new dean's term in office will expire in 2018.

## Rector awarded academic works as well as performance in sports

On February 25, more than sixty students and academics received the Rector's Award for their academic, artistic, or sport activities in 2014. The awards ceremony, one of the traditional highlights of Academic Days, commemorated the post-war events of February 21, 1946, when the Olomouc University Re-Establishment Act was passed.

## University in the whirl of dance

The Palacký University Gala Ball in the NH Collection Olomouc Hotel on February 21 allowed students and teachers to share the dance floor to the accompaniment of the bands TopBand and November 2nd and the singer Anna K. The members of the theatre Divadlo na cucky chaperoned the night. Their entrance was conceived as an arrival on a tandem bicycle, a reminder of the hobby of Rector Jaroslav Miller – cycling.

# March

## Alumnus Radomír Maráček sought experiences abroad after graduation

The former director of Teaching Hospital Olomouc, today Director of the Karlova Studánka Mountain Spa, Radomír Maráček, gave a talk in the UP Alumni lecture series, in the Corpus Christi Chapel on March 2. The UP Faculty of Medicine alumnus from 1992 described his career growth and professional experiences.

## UP flooded with 30 000 applications for study

Palacký University Olomouc received 30 072 applications for study in the academic year 2015/2016. The top rankings for applications were General Medicine, Law, and Psychology. There was also great interest in studying Dentistry and Pre-School Teacher Training.

## Rector received successful authors of outstanding academic publications

Authors of outstanding academic publications were received in the Ceremonial Hall by Rector Jaroslav Miller, who thanked them for their work. Eleven academic works from departments at the UP Faculties of Science, Arts, and Theology were among the 20% best-evaluated research publications in 2014, as confirmed by experts from the governmental Council for Research, Development and Innovation in their report.

# April

## Thirty students sleeping among books

Thirty students spent the night of April 1 in the UP Central Library in the Armoury. The program was an analogy of Fort Boyard, and participants wore fantasy costumes. After contests, a chocolate treasure awaited participants. The sleepover in the library was a follow-up on last year's successful premiere.

## Science promoted in the Fortress of Knowledge

Palacký University confirmed its significant contribution to the popularisation of science in the country – by opening an interactive museum for all generations. The Fortress of Knowledge was opened to the public on April 17. The extraordinary premises from the 19th century were transformed thanks to the European Regional Development Fund. The courtyard of the museum became a science camp where a dinosaur skeleton was excavated and Vikings fought under the supervision of lecturers.



Rector Jaroslav Miller cut the ceremonial blue ribbon to open UPoint, the UP information centre and shop on Olomouc's Upper Square, on April 15.





*The Science and Research Fair sparked interest at the Fortress of Knowledge and the Faculty of Sciences.*

## UPoint opened!

By cutting a blue ribbon, UP Rector Miller opened UPoint on April 15 – an information centre and shop in the House of the Black Dog on Olomouc's Upper Square. UPoint is not only a university shop and relaxation centre, but mainly an information point for future applicants, alumni, friends of the university, and the public. It is the architectural work of the Blažek husband-and-wife team of Ječmen Studio.

## AFO celebrated its anniversary with attendance record

The fiftieth year of the festival of documentary and popular science films, Academia Film Olomouc, attracted over 6000 viewers to Olomouc. The competition sections featured 530 films from

the world over. The festival was started on April 14 by the film *Tiny Giants 3D* by BBC Films. The main attraction was the debate between the British evolutionary biologist Richard Dawkins and the U.S. theoretical physicist Lawrence Krauss.

## Seven concerts at the 7th year of Music Olomouc

Seven concerts at the festival Music Olomouc, started on April 20, offered more than 40 contemporary compositions, out of which six were world premieres. The highlight of the festival was the performance of the Österreichisches Ensemble für Neue Musik from Austria, playing the best from German and Austrian music today. Music Olomouc is a multi-style and multi-genre festival open to a broad spectrum of contemporary music.

# May

## Jan Hus anniversary commenced by ecumenical dialogue

The purpose of the theological symposium Jan Hus – The Witness of Christian Faith for Our Time, which began on May 14, was to mediate a perspective on the tragic story of Jan Hus and find a path for dialogue between the Hussites and Catholics. Experts such the Vice-Dean of the Hussite Theological Faculty at Charles University Jiří Vogel, historian Bohdan Kaňák, Czech Studies scholar Jiří Fiala, Bishop-Patriarch of the Czechoslovak Hussite Church Tomáš Butta, theologian Martin Chadima, ecclesiastical lawyer Damián Němec, and theologian Ctirad V. Pospíšil all gave talks.

## Milan Kolář re-inaugurated at the Faculty of Medicine

Milan Kolář was elected Dean of the UP Faculty of Medicine and Dentistry by the Academic Senate. Prof Kolář was the only candidate and needed a simple majority of votes, i.e. 19 out of 36 senators. He received 31 votes. Rector Jaroslav Miller named him the faculty's dean for the next four years.

## Olomouc Days of Law focussed on democracy and division of powers

The UP Faculty of Law hosted an international academic conference Olomouc Days of Law 2015. Its main themes were the issues of democracy and division of powers. Three hundred participants arrived in Olomouc, including experts from the UK, Poland, Slovakia, and South Africa. The meeting was divided into 14 sections, which covered a whole spectrum of issues in the individual disciplines of law.

## Renovated buildings of the Faculty of Arts for education and science

A top-notch educational and research facility in the former canonical houses of residence came into being thanks to a €4 million

grant. The renovation, designed by Ateliér A Olomouc, gave a new function to the old buildings and highlighted interesting historical fragments. The quality of study and science and research results will now be supported with new facilities, such as a laboratory of psycholinguistics and lexicostatistics, the first centre for experimental political studies in Central Europe, an interpreting lab, and rooms for translators and foreign language students.

## Best authors in the UP Literary Contest

The 21st year of the UP Literary Contest proved to be one of the best in its history. Nine authors received financial awards during the ceremony on May 13, while another four received honorary mentions. Altogether 99 works were submitted in the literary contest. The winners were selected by the three-member expert jury consisting of Radek Malý and Jana Vraiová from the Department of Czech Studies and Jana Posníková from the Tramtarie theatre.

# June

## Science and Research Fair

The Science and Research Fair took place on June 19 and 20 in the premises of the Fortress of Knowledge and in the complex of the UP Faculty of Sciences. The event, for families with children, was inspired by the International Year of Light. The organisers showed light and its various aspects, transformers, solar panels, and even a flame thrower at a transformer substation. The fair premiered in 2001 as the Chemistry Fair.

## The Science and Technology Park opened its third building

New offices, rooms for businesses and a specialised lab for development of new drugs are located in the new building block of the UP Science and Technology Park since mid-June 2015. The construction of the complex, at almost €2 million, was a response to the increasing demand for the services of the institute that serves as a bridge between the academic and the business world, thus contributing to the economic development of the region.

## CenBiol project brings biologists better facilities for education and research

Students and teachers at the Faculty of Science were equipped with new workrooms, laboratories, a herbarium, and an animal lab. The Centre of Biological Disciplines in Olomouc-Holice was financed within the CenBiol project at the cost of €3.5 million. The renovation and modernisation of labs, greenhouses, and other facilities were made possible most of all thanks to EU funds.

## A breakthrough documentary on inclusion in Czech schools

Experts spent two years refining the conditions for inclusion in the Czech school system. They created a practical manual called Catalogue of Aid Measures, which contains advice on how to work with pupils with physical and medical impairments or social handicaps. Palacký University and People in Need played a crucial role in creating the manual.

# July

## Students from 30 countries learning Czech in Olomouc

The traditional Summer School of Slovanic Languages hosted 98 students from 30 countries for four weeks. The courses in Czech were structured on five levels and taught in English. The language course was complemented with lectures on Czech language, literature, history, and culture. Interested students could attend additional Russian and Polish language courses.

## Palacký University scored in prestigious rankings

In the ranking of the world's best universities provided by The Center for World University Rankings, Palacký University placed 724th, rising 80 places compared to last year's ranking – the best improvement among the other four Czech universities included.

The one thousand ranked universities represent a mere 3 per-cent of all the universities in the world.

## UP founded Endowment Fund to support young scholars and artists

The aim of the newly established Endowment Fund is to support outstanding young researchers and artists with international impact and starting strategic partnerships with important commercial subjects. In the first call for applications, they distributed the €30 000 contribution by Česká spořitelna among 11 eleven young talents, who qualified from 43 applicants studying Master's and doctoral programmes.

# August

## Camping in the Fortress of Knowledge attracted young science fans

Eyes, ears, nose, and hands were the main research tools of two hundred young scientists who attended the summer science camp in the Fortress of Knowledge. Organisers prepared a programme called "On the Wave of the Senses" dedicated to sensual perception and experiencing the life of people with disabilities. Artistic, scientific, and physical activities were further included in the programme.

## NATURA to access information sources in the natural sciences

The NATURA project by Palacký University supported access to specialised information sources in the area of the natural sciences in the years 2013–2017, with the commitment be sustained until 2019. The project made accessible international scientific databases in the natural sciences to UP employees as well as collaborating organisations. The UP library fund was further enriched with print and electronic books.

## Transformation of the Armoury: More than just a bistro

Where an ordinary restaurant used to be in the UP Armoury, there grew a student bistro in the summer months. The new entrepreneurs are experienced owners of venues called Fishi Sushi and Fishi Café. The menu will be based on cold meals, sandwiches, snacks, and raw and vegetarian food. The interiors were designed by Petra Gajdová.

# September

## Renovated buildings in Purkrabská street opened

The UP Faculty of Education opened new facilities in two renovated buildings in Purkrabská street. Students and academics will have at their disposal new laboratories, rooms for teaching specialised skills at the Institute of Special Education, and rooms for scientific activities. The costs exceeded €2.7 million, and 3510 m<sup>2</sup> of space were renovated.

## Univerity prepared a plan of humanitarian aid for refugees

The university has put together a special team to be used by state and public administration authorities as well as non-profit organisations. Offered help includes social work, psychological counselling, interpreting, legal aid, and teaching the Czech language. Dozens of students applied as volunteers. UP also announced a collection of children's toys and games for adults.

## Professor Jařab awarded for development of civil society

The first post-November 1989 rector of Palacký University, Prof Josef Jařab, received the City of Olomouc Mayor's Award on September 11, for his active contribution to

the development of democracy and humanity and for increasing the prestige of Olomouc at home and abroad. The city representatives acknowledged his stance before 1989 as well as his civil and social engagement in the following years. This new award was also granted to Jiří Žák, General Manager and the Chairman of the Board of Directors of Farmak company. The new award is supposed to strengthen local pride, respect for traditions and honour toward important personalities.

## Vít Voženílek elected Vice-President of International Cartographic Association

Head of the Department of Geoinformatics at the UP Faculty of Science, Vít Voženílek became Vice-President of the global non-governmental association of cartographers. Voženílek, an expert on atlas cartography, will hold the post for four years. It was decided by representatives of 71 member states at the International Cartographic Conference in Rio de Janeiro.

## University released Tiny Giants 3D by BBC Films

The "rodent western" Tiny Giants 3D, which received the Audience Prize at AFO 2015, was released in Czech cinemas by Palacký University in cooperation with the film's producer BBC Earth. The documentary is dubbed in Czech by actor Jiří Lábus.

# October

## Experts debated rehabilitation by walking

Latest trends in biomechanics, neurophysiology, and neuropsychology were part of the programme of the conference Neuro-Rehabilitation by Walking, which was organised by the Department of Physiotherapy at the UP Faculty of Health Science





*Palacký University awarded  
Dr Karel Pacák, MD an honorary doctorate.*

and by the Department of Rehabilitation at the Teaching Hospital Olomouc. Czech and UK experts together with rehabilitation specialists focussed on walking. One of the main guests was James Richards from the University of Central Lancashire in Preston, a top global expert in the area of exact measuring of human movement.

## Palacký University in the global academic elite

For the first time in its history, Palacký University was listed in the prestigious international Times Higher Education World University Rankings 2015–2016. UP has joined the ranks of the 800 most respected universities from 70 countries. The list, published since 2010 by the UK journal The Times Higher Education, judges universities in the quality of their teaching, science and research, citations, international environment, and co-operation with the corporate sector.

## Honorary doctorate granted to Dr Karel Pacák

Prof Karel Pacák, an endocrinologist from the National Institute of Health in Bethesda, Maryland, USA, was conferred the honorary doctorate of Palacký University on October 6, for his extraordinary contribution to the development of diagnostics and new methods in treatment of neuroendocrine tumours. The ceremony took place in the Archbishop's Palace in the company of the members of UP management, the academic community, and partner universities.

## E-Safety from the Faculty of Education best in the country

Educational activities for parents and children aimed at safe use of the Internet, solutions for network cyberbullying, and an on-line advisory centre – these are the most important activities of teachers who are participating in the E-Safety project. The importance and great successes of their work were confirmed by the gold medal won on the national level of the prestigious competition European Crime Prevention Award 2015.

## Zdenka Papoušková elected as Dean of the Faculty of Law

The UP Faculty of Law will be chaired by Dean Zdenka Papoušková, from 2016–2020. The Academic Senate chose between two candidates; the second was Michal Bartoň from the department of Constitutional Law. The vote was decided by all 15 members of the Academic Senate of the Faculty of Law.

## Month of Chinese Culture: Traditional medicine and tea culture

The festival of Chinese culture began on October 20. The academic community as well as the public could learn about traditional Chinese medicine, the art of massage, tea growing and processing, and the practice of Tai Chi. The event was organised by the Confucius Institute in Olomouc, whose mission is to promote Chinese culture and teach Chinese. Palacký University has also opened a branch of the Confucius Institute in Prague.

# November

## UP Archive acquired personal archives of Faculty of Arts professors emeriti

The personal archives of professors Josef Jařab, Ludvík Václavík, Jaroslav Macháček, and Jiří Fiala from the UP Faculty of Arts became the first contributions to the collection of personal documents of important personalities acquired by the UP Archive depositories. The plan is to address more personalities while they are still active at the university.

## Global issues dealt with by 300 students from all over the world

Palacký University hosted the prestigious international Model United Nations conference, organised by the UP Department of Politics and European Studies. Olomouc became the place where students from all over the world tried on the shoes of diplomats.



The Model United Nations conference is annually organised in New York in the headquarters of the United Nations, with 5000 student participants. Europe hosted this event for the first time in 2010 in Olomouc.

## University mapped cultural and creative industries

Palacký University, in cooperation with the City of Olomouc, has launched a project unparalleled in the Czech Republic. Its goal is to map in detail cultural and creative industries and obtain valuable data on how successful theatres, audio-visual artists, architects, graphic designers and others work and thrive in Olomouc. Another partner is the Prague Art Institute, which has been working on the methodology of such mapping in recent years.

## Palacký University supported the homeless

The Faculty of Arts participated for the third time in the charity event Sleep Out, which brings attention to the issue of homelessness. The entrance fee for this event taking place on November 19 was food in the value of €2, later distributed by Caritas Olomouc in the streets to those in need. Eighteen Czech cities took part in the Sleep Out programme.

# December

## Pomahač and Železný some of the faces of new campaign

Palacký University has almost 3000 graduates every year, and many of them become top experts in their fields. The UP management used this fact in the new campaign called "When I Look Back, I See Olomouc". The promo features the plastic surgeon Bohdan Pomahač, tennis player Helena Suková, photographer Jindřich Štreit, moderator Jakub Železný, and American Studies expert and first post-1989 UP Rector Josef Jařab.

## New professors at Palacký University

The four dozen new professors of Czech universities who received their decrees on December 11, included Olomouc personalities such as the doctors Klára Látalová and Ivana Oborná, the historian and political scientist Jiří Lach, the philosopher and sociologist Dušan Lužný, and the musicologist and composer Vít Zouhar. The highest academic-educational titles were handed to them by Kateřina Valachová, Czech Minister of Education, Youth, and Sports, in the Great Ceremonial Hall of Carolinum at Charles University in Prague.

## Minister of Health awarded UP scientists

Three out of seven awards by the Czech Minister of Health went to Palacký University. The first prize was granted to the team of Jiří Bártek in the Institute of Molecular and Translational Medicine; the teams of David Školoudík from the Department of Nursing at the Faculty of Health Sciences, and that of Jiří Gallo, Head of the Department of Orthopedics at the Faculty of Medicine, received honorary mention.

## UP Press on top

Unique monographs, high-quality textbooks, and inclusion in Google Books – this is a list of the innovations at the UP Press in 2015. Their production includes academic monographs, textbooks, anthologies, and study materials. Their output of 400 to 500 titles makes them one of the leading Czech publishers. According to Biblio, the supplement of The People's News (Lidové noviny), UP Press holds third place after the publishing house Albatros and Mendel University in Brno.



*Students from all over the world came to Olomouc to try on the role of diplomats at the Model United Nations.*

# 2015 in numbers

8 faculties at Palacký University

22 docents habilitated in 2015

245 academic workers with foreign citizenship

729 professionals in the business world taking part in teaching

16 208 students receiving stipends in 2015



342 courses in lifelong education offered at UP

243 accredited study programmes

9 professors named in 2015

18 study programmes in foreign languages

382 privately paying students

4 820 beds in student houses of residence

21 455 students in accredited study programmes

2<sup>nd</sup> oldest university in the Czech Republic

4 622 submitted applications for accommodation

442 769 main courses served to students in 2015

102 855 main courses served to employees in 2015

102 international academic conferences

4 819 students awarded degrees

30 193 submitted applications for study

46 contracts made with subjects in the business world concerning the utilisation of research, development, and innovation results





# Students and Academics

## in a University Town

# Students and Academics

## in a University Town

Young people are vastly interested in studying at the second oldest university in the Czech Republic. In March 2015, Palacký University received 30 072 applications for study. The top rankings for applications are General Medicine, Law, and Psychology. The faculties with the largest range of study programmes, the Faculties of Arts and of Education, also had the highest number of applications.

### Open House Day: Varied programme and TV Óčko

Hundreds of young people interested in studies at UP filled the halls, classrooms, offices, and laboratories of the eight faculties. The varied programme of the Open House Day was featured on Czech music channel TV Óčko with UP alumnus Albert Černý, the frontman of the groups Charlie Straight and Lake Malawi. Visitors obtained detailed information on UP study programmes, requirements for admission, preparatory courses, and the possibilities of employment after graduation. During the guided tours of classrooms and laboratories, many departments also showed various experiments.

### Gaudeamus in Prague confirmed interest in Olomouc's university

The Central European Higher Education and Lifelong Learning Fair Gaudeamus® in Prague hosted almost 10 000 visitors at the end of January. The high attendance at the UP stand also resulted from an article in Hospodářské noviny (Economic News), ranking Medicine at UP as number one in the country. The secondary school graduates thus considered applying to Olomouc even more. The fair featured 185 independent exhibitors, 272 faculties, and over 3500 study programmes. The Gaudeamus fair is the most important domestic source of useful information about university study opportunities.

### UP flooded with 30 000 applications for study

Palacký University Olomouc received 30 072 applications for study in the academic year 2015/2016. The top rankings for applications were General Medicine, Law, and Psychology. There was also great interest in studying Dentistry, Pre-School Teacher Training, General Nursing, and Physiotherapy. The faculties with the largest range of study programmes, the Faculties of Arts and of Education, also had the highest number of applications – each receiving almost eight thousand of them. In comparison with the previous year, the Sts Cyril and Methodius Faculty of Theology, the Faculty of Medicine and Dentistry, and the Faculty of Health Sciences accepted more applications.

### UP presented study opportunities in Brno

Five hundred faculties were present at the Central European Higher Education and Lifelong Learning Fair Gaudeamus in Brno in November. Palacký University made an impressive appearance. At its blue-and-white stand, representatives from all UP faculties answered dozens of questions concerning the study opportunities, study programmes, entrance exams, the faculties themselves, the houses of residence, and dining. The Gaudeamus fair hosted 213 independent exhibitors in 105 expositions. Apart from Czech schools, 65 renowned foreign universities from 11 countries were also present.

Interest in university study (number of applications, number of admitted students, number of enrolled students)

Palacký University		Bachelor's study (BA)			Master's study (MA)			Continuing Master's study (MA)			Doctoral study (PhD)		
Groups of accredited study programmes	CBDE (Classification of Basic Disciplines in Education)	Number of applications	Number of admitted stud.	Number of enrolled stud.	Number of applications	Number of admitted stud.	Number of enrolled stud.	Number of applications	Number of admitted stud.	Number of enrolled stud.	Number of applications	Number of admitted stud.	Number of enrolled stud.
FACULTY OF MEDICINE AND DENTISTRY		0	0	0	3447	514	338	0	0	0	85	75	72
Health Sciences, Medicine and Pharmacology disciplines	51-53	0	0	0	3447	514	338	0	0	0	85	75	72
FACULTY OF HEALTH SCIENCES		1321	297	200	0	0	0	245	95	62	7	7	7
Health Sciences, Medicine and Pharmacology disciplines	51-53	1321	297	200	0	0	0	245	95	62	7	7	7
FACULTY OF ARTS		5768	1249	1249	0	0	0	1642	568	568	169	100	87
Social Sciences, disciplines and services	61,67,71-73	3949	966	966	0	0	0	972	379	379	133	81	68
Education, Teacher Training and Social Care	74,75	206	47	47	0	0	0	205	44	44	0	0	0
Psychology disciplines	77	1262	109	109	0	0	0	348	95	95	10	4	4
Arts and Culture sciences and disciplines	81,82	351	127	127	0	0	0	117	50	50	26	15	15
FACULTY OF LAW		409	93	48	1550	440	265	62	31	29	32	20	19
Social Sciences, disciplines and services	61,67,71-73	0	0	0	0	0	0	62	31	29	0	0	0
Law and Administration	68	409	93	48	1550	440	265	0	0	0	32	20	19
STS CYRIL AND METHODIUS FACULTY OF THEOLOGY		709	400	308	25	25	24	232	129	105	22	13	10
Social Sciences, disciplines and services	61,67,71-73	512	296	228	25	25	24	192	103	85	22	13	10
Education, Teacher Training and Social Care	74,75	197	104	80	0	0	0	40	26	20	0	0	0
FACULTY OF SCIENCE		3659	2881	1401	0	0	0	866	623	372	109	75	64
Natural Sciences and disciplines	11-18	3539	2851	1378	0	0	0	828	616	365	109	75	64
Health Sciences, Medicine and Pharmacology disciplines	51-53	120	30	23	0	0	0	38	7	7	0	0	0
FACULTY OF EDUCATION		4877	1527	937	989	316	198	1662	1024	616	76	51	47
Natural Sciences and disciplines	11-18	66	66	51	0	0	0	0	0	0	0	0	0
Social Sciences, disciplines and services	61,67,71-73	30	16	10	0	0	0	0	0	0	0	0	0
Education, Teacher Training and Social Care	74,75	4781	1445	876	989	316	198	1662	1024	616	76	51	47
FACULTY OF PHYSICAL CULTURE		1635	553	426	0	0	0	565	281	240	30	26	26
Health Sciences, Medicine and Pharmacology disciplines	51-53	252	38	30	0	0	0	140	36	31	0	0	0
Education, Teacher Training and Social Care	74,75	1383	515	396	0	0	0	425	245	209	30	26	26
TOTAL		18378	7000	4569	6011	1295	825	5274	2751	1992	530	367	332

Accredited study programmes (numbers)

Palacký University		Bachelor's study (BA)		Master's study (MA)		Continuing Master's study (MA)		Doctoral study (PhD)	TOTAL
		FT	C/D	FT	C/D	FT	C/D		
STS CYRIL AND METHODIUS FACULTY OF THEOLOGY		3	4	1	1	4	3	4	20
Groups of accredited study programmes	CBDE								
Social Sciences, disciplines and services	61,67, 71-73	2	2	1	1	2	2	4	14
Education, Teacher Training and Social Care	74,75	1	2	0	0	2	1	0	6
FACULTY OF MEDICINE AND DENTISTRY		0	0	2	0	0	0	48	50
Groups of accredited study programmes	CBDE								
Health Sciences, Medicine and Pharmacology disciplines	51-53	0	0	2	0	0	0	48	50
FACULTY OF ARTS		11	6	1	1	11	3	28	61
Groups of accredited study programmes	CBDE								
Social Sciences, disciplines and services	61,67, 71-73	7	2	0	0	7	1	14	31
Education, Teacher Training and Social Care	74,75	0	1	0	0	0	1	4	6
Psychology disciplines	77	1	1	1	1	1	1	2	8
Arts and Culture sciences and disciplines	81,82	3	2	0	0	3	0	8	16
FACULTY OF SCIENCE		11	2	0	0	11	2	19	45
Groups of accredited study programmes	CBDE								
Natural Sciences and disciplines	11-18	10	2	0	0	10	2	19	43
Health Sciences, Medicine and Pharmacology disciplines	51-53	1	0	0	0	1	0	0	2
FACULTY OF EDUCATION		6	5	2	2	6	6	12	39
Groups of accredited study programmes	CBDE								
Natural Sciences and disciplines	11-18	1	1	0	0	0	0	0	2
Social Sciences, disciplines and services	61,67, 71-73	1	0	0	0	0	0	0	1
Education, Teacher Training and Social Care	74,75	4	4	2	2	6	6	12	36
FACULTY OF PHYSICAL CULTURE		3	1	0	0	2	1	4	11
Groups of accredited study programmes	CBDE								
Health Sciences, Medicine and Pharmacology disciplines	51-53	2	0	0	0	1	0	0	3
Education, Teacher Training and Social Care	74,75	1	1	0	0	1	1	4	8
FACULTY OF LAW		1	0	1	0	1	0	2	5
Groups of accredited study programmes	CBDE								
Social Sciences, disciplines and services	61,67, 71-73	0	0	0	1	0	0	1	0
Law and Administration	68	0	1	0	0	0	2	4	0
FACULTY OF HEALTH SCIENCES		3	3	0	0	2	2	2	12
Groups of accredited study programmes	CBDE								
Health Sciences, Medicine and Pharmacology disciplines	51-53	3	0	0	2	2	2	12	3
TOTAL		38	21	7	4	37	17	119	243



# Alumni

## Pomahač and Železný some of the faces of the campaign

Palacký University has almost 3000 graduates every year, and many of them become top experts in their fields. The UP management used this fact in the new campaign called “When I Look Back, I See Olomouc”. The promo features the plastic surgeon Bohdan Pomahač, tennis player Helena Suková, photographer Jindřich Štreit, moderator Jakub Železný, American Studies expert and first post-1989 UP Rector Josef Jařab, scientist Radek Zbořil, judge Eva Šonková, and diplomat Delana Mikolášková. The campaign was aimed at potential applicants and their parents as well as alumni. In September 2016, a grand alumni reunion will take place on the occasion of the 70th anniversary of the university’s re-establishment.

## Contact with alumni

Palacký University currently has 4600 alumni profiles registered. Contact with them is maintained via a specialised website, Alumni Portal ([www.absolventi.upol.cz](http://www.absolventi.upol.cz)). The portal, having a new structure, with new functions and features, provides alumni with the possibility to sign up and share contact information, take advantage of benefits by means of the Alumni Card, and find new job opportunities on the basis of updated list of offers.

Alumni are also kept in touch by receiving regular invitations to cultural, social, sporting, and educational events, such as the UP Gala Ball, Academia Film Olomouc, conferences, etc. The UP faculties – particularly the Faculties of Science, of Medicine, and of Arts – have organised Golden and Silver Graduations of their alumni for a number of years. UP alumni can subscribe to the university journal Žurnál UP, distributed both in electronic form (via e-mail) and by mail. In 2015 the university continued to send out the Alumni Žurnál newsletter, prepared specially for alumni registered in the UP Alumni Portal. The newsletter contains a selection of the best events at the university and is distributed electronically, always at the end of each semester.

In 2015, the preparations for a grand Alumni Reunion, taking place on the occasion of the 70th anniversary of the university’s re-establishment, were started. In parallel with the campaign, a series of alumni lectures was launched, aiming to introduce to the academic

and non-academic public the most important personalities among UP alumni in the fields of science, research, and culture. The lectures by important alumni will take place regularly every semester.

## Olomouc Region supported alumni, UP shop, and professional centre

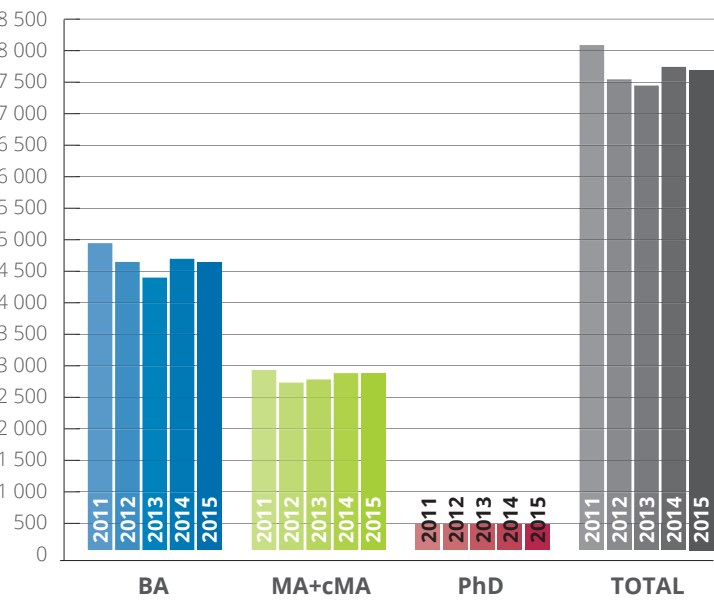
Three universities in the region were granted direct financial support from the Olomouc Region. Palacký University Olomouc received 3 million CZK (€111 thousand), while Moravian University College Olomouc and the College of Logistics in Přerov both received 3.5 million CZK (€130 thousand). The ceremony also included the delivery of direct support to the most successful sport clubs and sporting events in the region. The university presented the projects applying for support to the Olomouc Region: the Alumni programme, an emerging professional counselling centre, and the information centre with a shop on the Upper Square. The support will partly cover the rental of the Confucius Institute branch in Prague. In 2014, UP received 2 million CZK (€75 thousand), used for reconstruction of buildings in Křížkovského street, where the Centre for Doctoral Studies was established.

# University of the Third Age

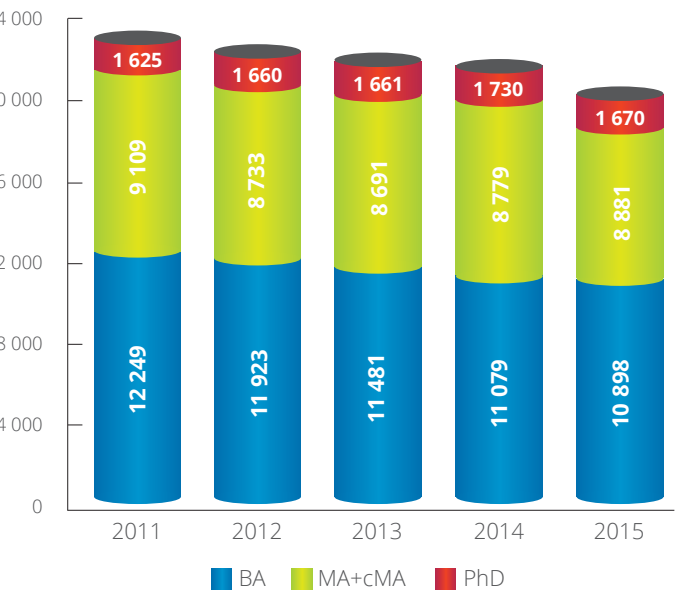
## Three hundred graduated at the University of the Third Age

The graduation diploma from the University of the Third Age was granted to more than three hundred seniors in the Assembly Hall of the UP Faculty of Law. The graduation ceremony concluded the three years of their study. The oldest graduate is 92 years old. More than 1000 seniors attend the University of the Third Age. It is one of the most distinctive interest-oriented programmes in life-long education. Olomouc’s University of the Third Age, the oldest of its kind in the Czech Republic, was established in 1986. Lectures in history are among the most popular. Students at the University of the Third Age must be over fifty.

## Numbers of enrolled students



## Total numbers of students



## Graduated students in accredited study programmes (numbers)

Palacký University		Bachelor's study (BA)		Master's study (MA)		Continuing Master's study (MA)		Doctoral study (PhD)	TOTAL
		FT	C/D	FT	C/D	FT	C/D		
Groups of accredited study programmes	CBDE								
Natural Sciences and disciplines	11-18	396	14	0	0	311	0	43	764
Technical sciences and disciplines	21-39								
Agriculture, Forestry and Veterinary Care sciences and disciplines	41,43								
Health Sciences, Medicine and Pharmacology disciplines	51-53	159	50	349	0	71	13	52	694
Social Sciences, disciplines and services	61,67,71-73	620	77	8	7	372	32	30	1146
Economics	62,65								
Law and Administration	68	37	0	264	0	0	0	10	311
Education, Teacher Training and Social Care	74,75	563	292	133	33	307	240	32	1600
Psychology disciplines	77	55	30	50	4	0	44	4	187
Arts and Culture sciences and disciplines	81,82	72	10	0	0	32	0	3	117
TOTAL		1 902	473	804	44	1 093	329	174	4 819

Classification of Basic Disciplines in Education (CBDE), Full-time / Combined / Distance (FT/C/D )







# Endowment Fund and Student Career Counselling Centre

## Česká spořitelna bank supported UP founded Endowment Fund and UP Student Career Counselling Centre

The savings bank Česká spořitelna and Palacký University have two joint activities since January 30 – the UP Endowment Fund to support internationalisation and top-level research, and the newly established Student Career Counselling Centre. The bank supported them with one million CZK (€37 thousand).

“We have been interested in partnership with Palacký University due to its achievements in science and educational activities. The new UP management has a very attractive vision, and I think we will be able to find a number of overlapping themes,” said Pavel Kysilka, Chairman of the Board of Directors and CEO of Česká spořitelna, after signing the contract.

### Student Career Counselling Centre

The UP Student Career Counselling Centre provides students with professional career counselling, personal development courses, trainings and workshops, assessment and development testing, job interviews, conferences, on-line counselling, and other activities that should make the graduates’ employment easier. Students are assisted in finding the best job and intern offers and informed about other counselling centres at individual faculties. Organisations and employers from the Czech Republic are offered opportunities for cooperation.

### UP Endowment Fund

The main objectives of the UP Endowment Fund are to support outstanding young researchers and artists with international impact and starting strategic partnerships with important commercial subjects in both the regional and global context. It is structured in a way that makes submissions and administration as simple as possible. It is the only fund of this kind in the context

of Czech universities. Its mission is to contribute, by means of supporting their international scientific and artistic activities, to the students’ personal and professional development and even to the solution of social and environmental problems. In the first call for applications, they distributed the 800 000 CZK (€30 000) contribution by Česká spořitelna among 11 eleven young talents.

“The UP Endowment Fund was established in order to support the international dimension of research and artistic projects of our students. I would love to express my gratitude to Česká spořitelna for this generous financial support. It is a proof that it is not a mere bank, but also an institution that puts emphasis on philanthropy and social responsibility in entrepreneurship,” said Jaroslav Miller, Chairman of the Board of Directors of the UP Endowment Fund.

#### UP Endowment Fund Board of Directors:

- » Prof **Jaroslav Miller**, UP Rector
- » Prof PhDr **Zdeněk Pechal**, Department of Slavonic Studies, UP Faculty of Arts
- » **Boris Cvek**, PhD, Department of Cell Biology and Genetics, UP Faculty of Science
- » **Pavel Jórka**, MBA, Director of the Regional Corporate Centre of Česká spořitelna in Olomouc
- » **Klára Vyhnánková**, Česká spořitelna Project Manager for collaboration with universities

## More than 40 young researchers competed for the Endowment Fund contribution

Forty-three young researchers applied for the contribution provided to the UP Endowment Fund by the savings bank Česká spořitelna. The number of applications was highest among the students of natural sciences, with 25 applications. In total, thirty thousand euros were distributed. The UP Endowment Fund contribution was granted to five students of the Faculty of Science, two students of the Faculty of Arts, and one student each of the Faculties of Medicine and Dentistry, of Theology, of Health Sciences, and of Physical Culture. The individual sums differed based on the nature of the research and the availability of other sources to the students. The lowest amount was about 10 000 CZK (€370), while the highest reached the possible maximum of 200 000 CZK (€7 400). The Board of Directors held a meeting on June 16 in order to make a selection of the best projects. The criteria included the contribution to the field, international impact, and the ability of the applicant to describe the merit of the proposed project.

### Supported students:

#### Adam Bednařík

A student of the doctoral programme in the Laboratory of Microbial Ecology at the Department of Ecology and Environment, UP Faculty of Science. He is investigating the concentration of methane in water streams. The project aims to study and specify the quantification of methane benthic fluxes from the sediment

into the surface water depending on the characteristics of river sediment.

**UP EF contribution: 20 200 CZK (€750)**

#### Vlastimil Dobečka

A student at the Department of Asian Studies, UP Faculty of Arts, who is participating in the creation of a Chinese-Czech dictionary and investigating the equivalence of names for acupuncture points in traditional Chinese medicine within the Student Grant Competition of the UP Internal Grant Agency (IGA). The supported project’s goal is to prepare a Chinese-Czech and Czech-Chinese dictionary of electrotechnical terms containing 5000 entries in each version.

**UP EF contribution: 78 400 CZK (€2 900)**

#### Jaroslava Geletičová

A student of the doctoral programme in Biophysics, UP Faculty of Science. She is studying Na<sup>+</sup>/K<sup>+</sup>-ATPase by molecular biotechnology and optical spectroscopy methods. The project is focussed on the study of the relationship between the structure and function of human Na<sup>+</sup>/K<sup>+</sup>-ATPase, which is an essential enzyme in the plasma membrane in all animal cells.

**UP EF contribution: 107 548 CZK (€4 000)**

#### Katka Jiráková

A member of the Experimental Particle Physics group in the Joint Laboratory of Optics and a student of Applied Physics, UP



Faculty of Science. Her successful projects include the improvement of the measurement range of ALFA detectors. She currently is assisting in the development of a time of flight detector (TOF) and studies diffractive particle physics. The project is focussed on the development of a TOF detector, planned as a part of the prepared ATLAS Forward Proton detector.

**UP EF contribution: 132 500 CZK (€4 900)**

### Jan Kollár

A student of the Master's programme in Hydrobiology at the Department of Ecology and Environment, UP Faculty of Science. During his Erasmus internship in Ghent, Belgium, he studied molecular phylogenesis, barcoding, and delimitation of diatom species. The project involves research into the phylogenesis of diatoms, one of the most diversified groups of algae.

**UP EF contribution: 60 000 CZK (€2220)**

### Kateřina Křížová

A student of Molecular and Cell Biology, UP Faculty of Science and a student of doctoral programme in the Laboratory of Genome Integrity, UP Faculty of Medicine and Dentistry, presently studying in the Danish Cancer Society Research Center in Copenhagen. The supported project delves into human cells senescence in relation to DNA damage and the cells' ability to cope with it, depending on the age of the cell donor.

**UP EF contribution: 113 801 CZK (€4 200)**

### Ivan Luptovčiak

A student of the doctoral programme in Biochemistry, UP Faculty of Science, working in the Laboratory of Cell Biology. He is a co-author of five academic publications, a co-investigator of student IGA projects, and a member of a project team funded by the Czech Science Foundation (CSF). His project aims to study the mechanisms of signalling pathway regulation in plant cells with the purpose of creating transgenic lines resistant to stress for optimal plant growth.

**UP EF contribution: 41 500 CZK (€1 550)**

### Nikol Neplechová

A student of International Humanitarian and Social Work, UP Sts Cyril and Methodius Faculty of Theology, where she is in charge of preparations of the international Humanitarian Congress and activities associated with Integration without Borders. The supported project deals with the functioning of the international fund-raising platform of humanitarian organisations.

**UP EF contribution: 13 300 (€500)**

### Magda Polanská

A student of the doctoral study programme in Theory and History of Art, UP Faculty of Arts. She is participating in an IGA grant for cataloguing and exploring the collection of incunabula in the Capitular Library in Olomouc. She is also taking part in a CSF research project The History of Book Printing in the First Half of the 16th Century. The project serves to create websites in English and Czech that would present the previously unexplored collection of incunabula in the Capitular Library in Olomouc in the form of an online exhibition.

**UP EF contribution: 138 200 CZK (€5100)**

### Alena Svobodová

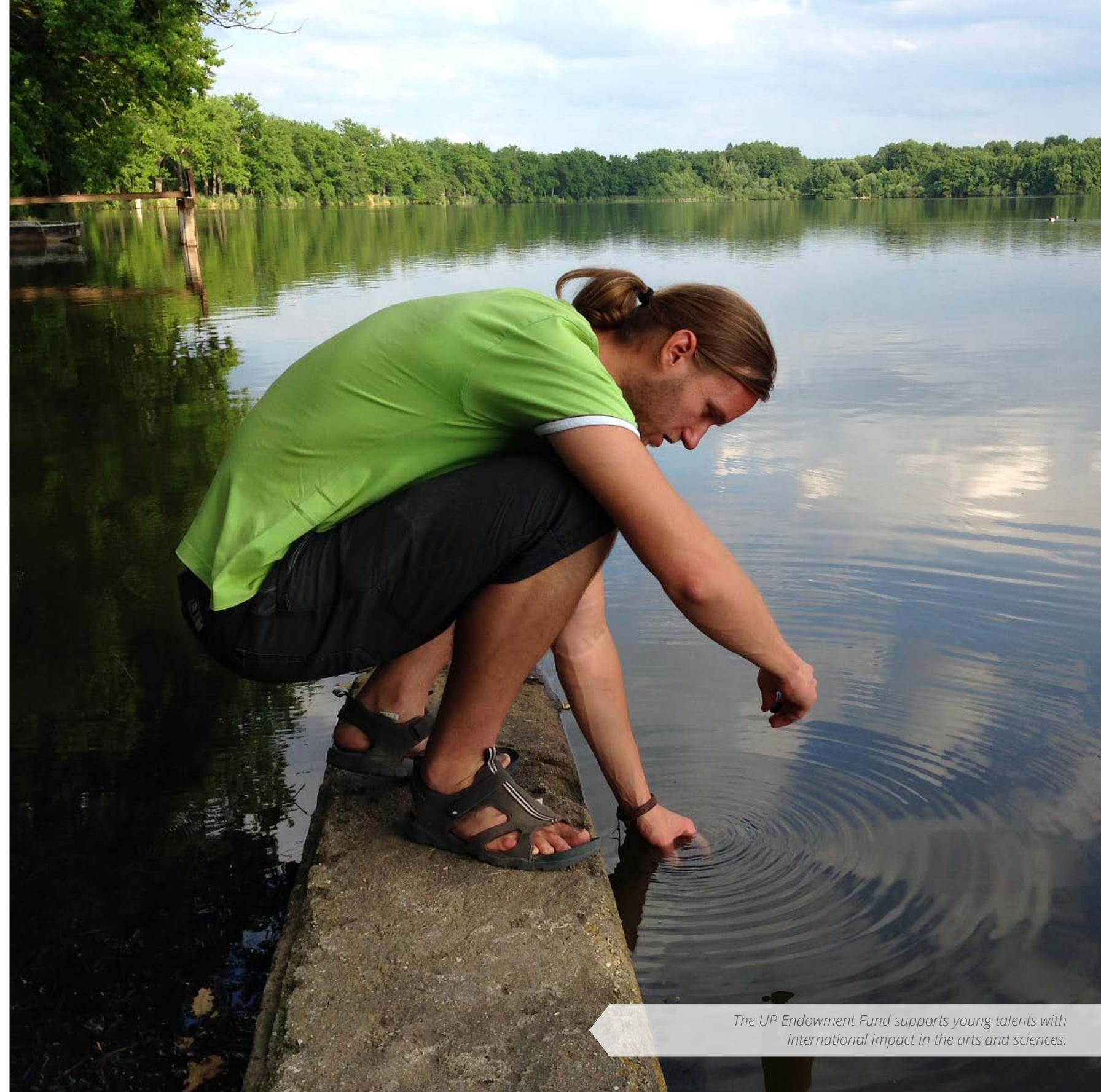
A student of Physiotherapy, UP Faculty of Health Sciences, writing a Master's thesis on the standardisation of the Neurobehavioral Assessment of Preterm Infant (NAPI) for the Czech population. The project conducts pilot testing of NAPI and its inclusion among valid examination methods of preterm infants in the Czech Republic.

**UP EF contribution: 34 700 CZK (€1 300)**

### Pavel Šuba

A graduate of the Department of Recreology, UP Faculty of Physical Culture, currently studying in the UP doctoral programme Kinanthropology with focus on social and human sciences and specialising in philosophical and social-cultural kinanthropology. The project explores the effectiveness of leisure time activities as programme means for volunteers and experts working with endangered children and youth in a Salesian centre in Lusaka, Zambia.

**UP EF contribution: 42 850 CZK (€1 600)**



*The UP Endowment Fund supports young talents with international impact in the arts and sciences.*





# Newly Appointed Deans and Professors

and Awarding of Honorary Doctorates



**Prof Ing Mgr et Mgr Peter Tavel, PhD**  
Dean of the Sts Cyril and Methodius Faculty of  
Theology, Palacký University

## Peter Tavel accepted the Dean's insignia and took the ceremonial oath

On February 17, Peter Tavel was ceremonially inducted to the position of Dean of the Sts Cyril and Methodius Faculty of Theology. In the Ceremonial Hall of the Archbishop's Palace he took the inauguration oath and received the Dean's insignia from Rector Jaroslav Miller.

The position was accepted by the new dean with honour, and with admiration and respect for the academic and pedagogic results which the previous leadership achieved. He described the Faculty of Theology as a citadel, protecting theological studies like the family jewels, and its position in a predominantly atheistic environment as a worthy challenge. Rector Jaroslav Miller appreciated the results of the former dean, Ivana Vlková, for the expansion of the Faculty of Theology, awarding her with the UP Memorial Medal for her results. The outgoing dean ran the faculty for two previous terms, starting in 2006. Peter Tavel accepted the post of Dean on 14 September 2014 from Rector Jaroslav Miller after receiving the confirmation by the Vatican Congregation for Catholic Education. The new dean's term is limited to the years 2014–2018.

## Prof Ing Mgr et Mgr Peter Tavel, PhD (b. 1966)

*He is a graduate in the fields of Building Construction at the Faculty of Construction of the Technical University of Košice, Psychology at the UP Faculty of Arts, and Theology at the UP Sts Cyril and Methodius Faculty of Theology. In 2009 he became a Docent in Clinical Psychology. He graduated from the Psychotherapy in Education programme at the Prague College of Psychosocial Studies and a one-year course in Austria in palliative care and accompanying dying patients. In 2014 he was named a Professor in Clinical Psychology. He dedicates himself to research in the psychology of health, in geriatric psychology and the psychology of spirituality. He has over one hundred academic publications.*

*At UP he is the Head of the Olomouc University Social Health Institute (OUSHI). He is a member of the Czech team of the international research study Health Behaviour in School-aged Children (HBSC) and is the Czech national coordinator of DIPEX. He holds the post of Vice-Rector at the Prague College of Psychosocial Studies. As a Dominican monk, he works in parishes in the vicinity of Retz, Austria; he is responsible for education and personal development of priests in the Slovak Dominican community.*

## Dagmar Pospíšilová and Tomáš Grim named professors

Palacký University has two new professors. The appointments for Dagmar Pospíšilová and Tomáš Grim went into effect May 1, despite not attending the ceremony. They were ratified by the signatures of the President and the Prime Minister of the Czech Republic.

### Prof MUDr Dagmar Pospíšilová, PhD (b. 1956)



*She began working at the Children's Clinic after her work approval in 1981. She and Vladimír Mihál were the only child haematologists in Czechoslovakia in the 1980s, and the two started protocol treatment at the Children's Clinic for childhood leukaemia. Pospíšilová began to devote herself to non-malignant haematology – i.e. anaemia and thrombocytopenia, which are rare in childhood. She dedicated her research work to an extremely rare disease, Diamond-Blackfan anaemia (DBA). In the year 2000, the nature of DBA was discovered to be associated with failure in the functions of several cell organelles. This surprising finding led to extension of research into failures in the functions of cell organelles in haematology. The Czech Republic is now one of the world leaders in the research of these diseases.*

### Prof RNDr Tomáš Grim, PhD (b. 1973)



*Tomáš Grim, from the Department of Zoology and the Ornithological Laboratory, researches the question of behavioural ecology and the evolutionary dynamics of interspecies interactions. He devotes particular attention to the eco-ethological factors of nest parasitism and its influences on the ordinary schedule of the nest biology of birds. Together with his colleagues from foreign institutions, he studies the chemical and structural mechanisms of the colouration of birds' eggs, the anti-preda-*

*tor behaviour of birds on the European and global scales, and the relationships between hosts and the brood parasitic cuckoo. As the author or co-author of 70 scientific works, he has received acclaim by journal citations and citations in books and monographs, including leading foreign textbooks. He is a much sought-after reviewer of professional periodicals.*

## UP has 46 new PhDs, 9 Docents and 1 Professor Emeritus

**Prof Jaroslav Macháček** from the Department of English and American Studies received the decree on June 12 by which the university made him a Professor Emeritus.

Prof Macháček returned to the university after 1989 and took part in rebuilding the Department of English and American Studies, which he then chaired for twenty years. His professional interests include the English language, the diachronic evolution of languages, and especially research in comparative syntax. He guarantees the naming of docents and professors in his field.

UP rectors have used to the right to name professors emeriti since 2004 – a symbolic award for excellence in both professional and personal qualities. The university thus does not lose contact with persons whose reputations promote the good name of the university. To date, 43 leading personalities have been awarded the title of UP Professor Emeritus.

During the award ceremony, 46 doctoral students received the title of Doctor, and 9 Docents were named.

## Milan Kolář re-elected Dean of the Faculty of Medicine and Dentistry

Milan Kolář was again made Dean of the Faculty of Medicine and Dentistry on October 6, and at the same time Karel Pacák was awarded the title of Doctor honoris causa. Thirty-one out of the 31 senators present at the meeting of the Academic Senate of the faculty on April 21 voted Kolář into his second term. Kolář was the only candidate, and he merely needed a simple majority of votes from the 36 senators.

The returning Dean praised the faculty as a science and research centre of national importance and with international reach. Kolář's visions for the faculty include moving the faculty's headquarters, introducing a system of rewards for teachers, and preparing the accreditation for the study programme Public Health in both Czech and English

versions. In addition, the English and Czech study programmes should be resynched and the student buddy system should be renovated. Milan Kolář is the 19th Dean of the Faculty of Medicine and Dentistry since the post-war re-establishment of the university in 1946. His second term will run from 1 June 2015 to 31 May 2019.

### Prof MUDr Milan Kolář, PhD (b. 1964)

*Kolář graduated from the UP Faculty of Medicine and Dentistry in 1988, and received his 1st and 2nd certificates in Medical Microbiology in 1991 and 1994. In 2007 he was named Professor of Medical Microbiology. In 2004 he was named Vice-Dean of the faculty; and was elected Dean of the faculty in 2011, and again this April. His second term as Dean began on June 1 and will last until May 2019. In his academic activities he has devoted himself especially to bacterial resistance during treatment with antibiotics. In cooperation with colleagues from the UP Faculty of Science and the Czech Academy of Sciences he has dedicated himself to the study of the antimicrobial properties of silver nanoparticles and testing new lipophosphonoxins and their antimicrobial activity. He is the leading author or co-author of seven monographs and 171 original scientific publications, of which 73 were in impact journals (h-index = 16). He lectures on Medical Microbiology for students in the fields of General Medicine, Dentistry, and for English-speaking students in the General Medicine programme.*

## UP awards endocrinologist Karel Pacák an honorary doctorate

The world-famous endocrinologist Prof Karel Pacák from the US National Institute of Health was awarded an honorary doctorate for his exceptional contributions to the world in the development of diagnostics and new methods for the treatment of neuroendocrine tumours. The university at the same time recognised his long-term cooperation with the 3rd Internal Clinic of the UP Faculty of Medicine and Dentistry.

Karel Pacák, a native Czech and winner of numerous international awards, is one of the world's absolute top experts in the field of diagnostics and treatment of rare neuroendocrine tumours. Since 1991 he has been working at the National Institute of Health in Bethesda, Maryland, USA, where he founded and runs the prestigious Medical Neuroendocrinology Section. It is the largest such specialised centre in the world, where children and adult patients from all over the globe come for its new diagnostics and treatment approaches.

Palacký University has been awarding honorary doctorates since 1990, when its first Doctor honoris causa was awarded to President Václav Havel. Since then the title has been bestowed upon 49 laureates.

### Prof MUDr Karel Pacák, DrSc (b. 1958)

*Pacák graduated the Faculty of General Medicine at Charles University in Prague in 1984, where he is Professor – as well as at Georgetown University in the USA. His first practical experience was gained at the 3rd Internal Clinic at the First Faculty of Medicine, Charles University. Since 1990 he has been working at the National Institute of Health in Bethesda (Maryland, USA) where since 2005 he has been Senior Investigator of the Section of Medical Neuroendocrinology. He focusses on the study of neuroendocrine tumours and specialises in the problems of pheochromocytoma (PHEO) and paraganglioma (PGL). He was the first in the world to use plasma metanephrines in practise, fluorodopamine positron emission tomography, and radiofrequency ablation in the treatment of metastatic pheochromocytoma. He is the most cited author in his field. To date he has published more than 110 chapters in medical monographs, more than 400 works in scientific journals, and four books (h-index = 61). He lectures at international congresses and prestigious American universities. He founded the tradition of the International Symposium on Pheochromocytoma and is the co-founder of the Pheochromocytoma Research Support Organization (PRESSOR). For his outstanding research findings he has been awarded a number of prizes from national and international societies. He works in close cooperation with the 3rd Internal Clinic of the Olomouc Teaching Hospital.*

## Zdenka Papoušková to helm UP Faculty of Law

Vice-Dean Zdenka Papoušková will be the new Dean of the UP Faculty of Law, determined at the October vote by a majority of the 15 members of the faculty's Academic Senate in attendance. The voting was in secret and there was only one round, with Papoušková garnering 9 votes, one more than the required simple majority. There was only one other candidate, Michal Bartoň from the Department of Constitutional Law.

If the Rector approves the Senate's vote, Dr. Papoušková will helm the faculty from 2016–2020 and begin as Dean in January 2016. During her campaign she emphasised internationalisation of the faculty and excellence in academics and research.





## NEWLY-APPOINTED DEANS AND PROFESSORS OF PALACKÝ UNIVERSITY



**Prof Klára Látalová**  
*Faculty of Medicine and Dentistry UP*



**Prof Ivana Oborná**  
*UP Vice-Rector*

### JUDr Zdenka Papoušková, PhD (b. 1974)

Graduate of UP Faculty of Law. She has been working in the Department of Administration and Financial Law since 1998 (with a break between 2001–2003) as an assistant professor. Since 2014 she has been Vice-Dean for Academics, Research, and the Doctoral Studies Programme. In 2015 she began her habilitation process at the Charles University Faculty of Law in Prague.

### UP has three new professors emeriti in addition to docents and doctors

On December 11, at ceremonies in the Assembly Hall of the UP Faculty of Law, nearly 100 students graduated from doctoral studies programmes. The greatest number came from the Faculty of Medicine and Dentistry, which named 29 new doctors. The heads of six faculties and the rectorate named 9 new docents. Lubomír Dvořák, former rector of Palacký University, received first honours with his being named Professor Emeritus, recognising his professional and personal contributions to the university, where he will continue at the Faculty of Science. Other new professors emeriti were Pavel Štěpánek and Ladislav Daniel, who will continue at the Faculty of Arts.

### UP has five new professors

The four dozen new professors at Czech universities named on December 11 included 5 from Palacký University: medical doctors

Klára Látalová and Ivana Oborná, historian and political scientist Jiří Lach, philosopher and sociologist Dušan Lužný, and musicologist and composer Vít Zouhar. This highest title was conferred by the Czech Minister of Education, Youth and Sport, Kateřina Valachová in the Great Ceremonial Hall of Charles University in Prague. The awards ceremony included a performance by Ensemble Damian, which played Quo cordis mei from the melodrama Saeculum Coronatum (The Crowned Century) by Vít Zouhar.

New professors approved through UP included Karel Petrzik from the Department of Genetics, Faculty of Science, University of South Bohemia, České Budějovice, and Ernest Beinrohr, member of the Department of Chemistry at the Faculty of Natural Sciences, Sts Cyril and Methodius University in Tarnava, Slovakia. Nominations for 53 professorships in the sciences and arts were signed by Czech President Miloš Zeman in autumn and went into effect on November 1.

### Portraits of the new professors

**Prof Klára Látalová** has been dedicating herself to the question of bipolar affective disorders and aggression in psychological disorders. She is the author or editor of four monographs and co-author of three textbooks. She has published more than 100 scientific articles, including more than 30 with impact factor. She is a member of the board of the Czech Neuropsychopharmacological Society, the Czech Society for Biological Psychiatry and the Biological Psychiatry Section of the Czech Psychiatric Society. She is a member of the board of Psychiatry, Faculty of Medicine, Masaryk University in Brno.



**Prof Jiří Lach**  
*Dean, UP Faculty of Arts*



**Prof Dušan Lužný**  
*Chair, Department of Sociology, UP FA*



**Prof Vít Zouhar**  
*UP Vice-Rector of Studies*

**Prof Ivana Oborná** specialises in infertility, assisted reproduction, and oxidative stress. She is the author or co-author of more than 100 scientific publications. She is a member of the Czech Gynecological and Obstetrical Society of the Czech Medical Society of J.E. Purkyně, an honorary member of the Society of Andrology India, a member of the European Society of Human Reproduction and Embryology, and the European Society of Reproductive Immunology. She cooperates with scientific workplaces in Great Britain, Canada, and the USA. She is a member of the Academic Board of the UP Faculty of Medicine and Dentistry, the board of Gynaecology and Obstetrics at the Faculty of Medicine, Masaryk University in Brno, and the examination board of the Czech Institute for Postgraduate Medical Education in the field of Reproductive Medicine. At UP she performs the function of Vice-Rector for Foreign Affairs.

**Prof Jiří Lach** is oriented on Czech history and European historiography of the 20th century and contemporary European history. He also is interested in the analysis of political systems. He has published three monographs, several editions, and a number of studies in Czech and foreign periodicals and proceedings. His work has more than 400 citations. He is the recipient of several international awards and a member of professional organisations and academic committees. From 2007–2010 he chaired the Department of Political Science and European Studies. He has lectured as a guest professor at the US Military Academy West Point and Valdosta State University in the USA, and Friedrich Schiller Universität in Jena, Germany. He has been the Dean of the UP Faculty of Arts since February 2010.

The main interests of **Prof Dušan Lužný** include the sociology and anthropology of religion, new religious movements, Eastern religions, and sociological theories. He is the author or co-author of 9 academic monographs and a number of articles and studies in Czech and internationally recognised periodicals. He is the main investigator of the Czech Science Foundation project Continuity and Discontinuity in Religious Memory in the Czech Republic. He has worked for the Accreditation Commission of the Ministry of Education for Social Sciences (as well as in work groups for the same) in the fields of Philosophy, Religious Studies, and Theology, and as a member of the evaluation panel for Philosophy, Theology, and Religious Studies. He is the chairman of the Czech Sociology Society. He is the chair of the Department of Sociology, Andragogy and Cultural Anthropology, UP Faculty of Arts.

**Prof Vít Zouhar** has been engaged in the subject of composition in music education and on the works of Bohuslav Martinů. He is the author or co-author of five monographs and a number of studies published in Czech and foreign periodicals and proceedings. At present he is the co-investigator of the Czech Science Foundation project A Comprehensive Edition of the Works of Bohuslav Martinů, Phase 2. He is the author or co-author of six operas, more than 60 orchestral and chamber music pieces, musicals and sound installations. He is the recipient of the Alfréd Radok Czech theatre prize, Berg Orchestra NUBERG award, and many more. He initiated the programme Different Hearing, which is aimed at the development of musical creativity. He has lectured and conducted research projects at a number of foreign schools and he has been cited more than 200 times. Since February 2010, he has been UP Vice-Rector for Studies.



# World-Renowned Personalities

at Palacký University

## World-Renowned Personalities at Palacký University

Palacký University and its institutes have been constantly collaborating with the Czech and global scientific elite. A number of prominent scientists have arrived in Olomouc as special UP guests. In 2015, the second oldest university in the Czech Republic hosted particle physicist Lawrence Krauss, evolutionary biologist Richard Dawkins, moral philosopher Peter Singer, biochemist Václav Pačes, and endocrinologist Karel Pacák. Many outstanding personalities and experts working at Palacký University were granted awards from all corners for their personal and professional qualities in 2015.

### Israeli Ambassador debated with UP Rector and students

Gary Koren, Israeli Ambassador to the Czech Republic, visited Olomouc's university on February 23. He met with UP Rector Jaroslav Miller and debated with students. He assured the rector that Palacký University may approach his embassy anytime, should they need to support their interests in Israel. He inquired among the students about their knowledge of Israel and the perception of the Czech Republic and its people by foreigners. He also visited the Institute of Molecular and Translational Medicine.

#### Gary Koren (b. 1959)

Born in Riga, Latvia, he graduated in Economy and International Relations at the Hebrew University of Jerusalem and in Political Science and National Security Studies at the University of Haifa. He has been employed in diplomacy since the early 1990s. In 2003, Koren returned to Riga for three years as the Israeli ambassador. He has been located in Prague since September 2013.

### US Ambassador highlighted Havel's speech

US Ambassador to the Czech Republic Andrew Schapiro arrived in Olomouc on February 24 to meet with UP Rector Jaro-

slav Miller and students. He based his debate with UP students on the 25-year-old speech by Václav Havel to the US Congress and highlighted several points in a broader context. He praised Havel's sense of responsibility for the world and interpreted it as a defence of democracy and human rights. Students' questions mostly aimed at the crisis in Ukraine, the Islamic State, the use of fossil fuels, and the application of drones.

#### Andrew H. Schapiro (b. 1963)

He graduated in History at Yale University and in Philosophy, Politics, and Economy at Oxford University. He was awarded JD at Harvard University, where his classmate was Barack Obama. Then he clerked for a judge, became a federal public defender in New York, and worked in two law firms. His first visit to Prague goes back to 1982. He was nominated US Ambassador in September 2014.

### UP Alumni lecture series: Karlova Studánka Spa Director

The former director of Teaching Hospital Olomouc, today Director of the Karlova Studánka Mountain Spa, Radomír Maráček, gave a talk in the UP Alumni lecture series, entitled "Professional and Career Experience". The UP alumnus from 1992 described his career growth and shared his professional experience from the spa, six hospitals, private practice, and a lawsuit. The charismatic



sportsman and physician at the Beskydy Mountain Rescue Service debated with the audience on the themes of student interns, international students, top management team-making, time management, alternative medicine in spa care, and profit in medicine.

## Unparalleled conversation: a particle physicist and an evolutionary biologist

An Origins Project Dialogue, a talk show by Lawrence Krauss hosting Richard Dawkins, caused quite a stir in Olomouc. Hundreds of visitors attended an unparalleled conversation of two celebrities featured at Academia Film Olomouc in the Metropol Cinema on April 17, entitled "Life, the Universe and Everything". Both scientists referred to Newton and Darwin, however the audience enjoyed their contemplations and innuendos. They spoke on metabolism and reproduction and pondered whether life can be compared, for example, to fire. Krauss asked Dawkins about biology, while Dawkins asked Krauss about physics and astronomy. The last thirty minutes were open to questions from the audience. Thus the approaches of believers and atheists were discussed along with evolutionary theory and practical applications of theories of relativity. When Dawkins said that truth matters to him more than other people's opinions and that there is no compromise in this regard, he was applauded. The standing ovation was followed by a short autograph session.

## Vičar and Zbořil became laureates of the City of Olomouc Award

Prof Jan Vičar was awarded the Olomouc 2014 Accomplishment of the Year during the City of Olomouc Awards ceremony on May 21, and Prof Radek Zbořil entered the Olomouc Hall of Fame with another three personalities. The ceremony was attended by Czech Prime Minister Bohuslav Sobotka.

Jan Vičar was awarded for his monograph *Music in Olomouc 1945–2013*, a unique publication on the history of musical culture in Olomouc from 1945 until today. The book contains historical presentations, an extensive iconography, and musicological analyses of selected composers attached to Olomouc. Radek Zbořil, Director of the Regional Centre of Advanced Technologies and Materials, received the City of Olomouc Award from Prime Minister Sobotka. The City of Olomouc Award has been awarded since 1998. The number of laureates now exceeds 130. The 2014

laureates include Gerlinde Back from the foundation Stiftung Haus der Action 365, the arts theoretician Jiří Hastík, and musician Richard Pachman. The Accomplishment of the Year was also granted to Michal Bartoš for his unique House of Nature in the Litovelské Pomoraví nature preserve.

## South African Ambassador visits UP Rector and students

Student exchange and academic collaboration with South African universities were discussed on June 10 by UP Rector Jaroslav Miller and Franki Verwey, Ambassador of South Africa to the Czech Republic. Ambassador Verwey also had an informal meeting with South African students who study in Olomouc, in the company of Lianne Barnard from the UP Department of Dutch Studies and Vice-Rector Vít Zouhar. They talked over the differences in study, accommodation of foreign students in the Neředín campus, and the mild winter. The academic cooperation with South Africa is less intense than with European universities; however the UP Department of Development Studies collaborates with the University of Cape Town.

## Peter Singer talking on effective altruism, animal and human rights

Peter Singer, Professor of Bioethics at Princeton University and the University of Melbourne, one of the world's most eminent philosophers in the area of practical ethics, lectured at Palacký University on June 15 and 16. He promotes the ideas of effective altruism, actively advocates animal rights and promotes euthanasia, abortion, and terminating the lives of infants born with serious disabilities. He often claims that philosophers should not only theorise and describe the world, but also change it. Singer's talks have stirred much emotion since the 1990s; some of them were accompanied by demonstrations in Germany. It was his first lecture in the Czech Republic.

## Professor Jařab awarded for development of civil society

The first post-November 1989 rector of Palacký University, Prof Josef Jařab, received the City of Olomouc Mayor's Award on September 11. Along with the renowned expert in American Studies,



*Profs Jan Vičar and Radek Zbořil at the City of Olomouc Awards ceremony.*





Cardinal Dominik Duka giving a lecture in honour of the first rector after the re-establishment of Olomouc's university.

this new award was also granted to Jiří Žák, General Manager and the Chairman of the Board of Directors of Farmak company. According to the city representatives, the new award is supposed to strengthen local pride, honour for traditions and respect toward important personalities.

Josef Jařab was awarded for his active contribution to the development of democracy and humanity and for increasing the prestige of Olomouc at home and abroad. The city representatives acknowledged his stance before 1989 as well as his civil and social engagement in the following years.

## Honorary doctorate for Karel Pacák

Prof Karel Pacák, one of the world's top endocrinologists, was conferred the honorary doctorate of Palacký University on October 6. The title was granted for his extraordinary contribution to the development of diagnostics and new methods in treatment of neuroendocrine tumours. The university also acknowledged his long-standing collaboration with the UP De-

partment of Internal Medicine III – Nephrology, Rheumatology and Endocrinology. The ceremony took place in the Archbishop's Palace in the company of the members of UP management, the academic community, and partner universities.

The title doctor honoris causa has been awarded at Palacký University since 1990, when Václav Havel received it as his first honorary doctorate. Since then, 49 laureates have been granted the title for their contributions to the advancement of knowledge and the promotion of humanitarian ideals.

### Prof MUDr Karel Pacák, DrSc (b. 1958)

Prof Pacák graduated from the Faculty of Medicine at Charles University in Prague in 1984, where he is Professor today as well as at Georgetown University. He gained his first experience at the Department of Internal Medicine of the First Faculty of Medicine at Charles University. Since 1991 he has been working at the National Institute of Health in Bethesda, Maryland; he has been Head of the Department for Clinical Neuroendocrinology since 2005. He investigates endocrine tumours,

specialising on pheochromocytoma and paraganglioma in particular. He was the first to put into practice the plasma metanephrines, fluorodopamine positron emission tomography and radiofrequency ablation of metastatic pheochromocytoma. He is the world's most cited author in this area of research. So far he has published over one hundred chapters in medical monographs, more than 400 texts in professional journals, and four books (H-index 61). Prof Pacák also established the International Symposia on Pheochromocytoma and helped co-found the Pheochromocytoma Research Support Organization.

## UP Alumni lecture series: the photographer Vladimír Birgus

Another lecture in the UP Alumni lecture series in October 2015 was dedicated to photography. Vladimír Birgus, a Czech photographer, teacher, photography historian, and university teacher, shared experiences from his professional career.

Vladimír Birgus graduated from the Literature-Theatre-Film Department at the UP Faculty of Arts. He studied Photography at the Film and Television School of the Academy of Performing Arts in Prague (FAMU), where he began teaching as an assistant professor in 1978. Since 1990, he has been running the Institute of Creative Photography at the Faculty of Philosophy and Science at Silesian University in Opava. He is the author of forty books, as a photographer he has had over sixty solo shows both at home and abroad. The series of lectures by successful UP alumni began in 2014.

The first talk was given by the journalist Jakub Železný, while the second one was given by Radomír Maráček, Director of the Karlova Studánka Mountain Spa.

## Cardinal Duka Calls for joint responsibility

The topical continuance of the philosophical inheritance of J.L. Fischer and his era in Olomouc – those were the themes of the 22nd lecture to honour the first rector of the Olomouc university re-established after the Second World War, held by Cardinal Dominik Duka in the crowded Archbishop's Palace in Olomouc in November 2015.

The Cardinal's choice of the theme for his talk was inspired by J.L. Fischer's contemporaries – the Catholic priest, philosopher, and writer Metoděj Habáň; and the former rector of the seminary in Litoměřice, Josef Poul. Duka placed several ideas of the first UP post-war rector into the context of our society's development in

the past decades and also touched upon the issues of the concept of nation, nationality, patriotism, and "possession" of the truth.

Dominik Duka has been collaborating with the UP Sts. Cyril and Methodius Faculty of Theology since its re-establishment in 1990. He worked at the Department of Biblical Sciences until 1999. Together with another pedagogue from Olomouc, František X. Hałas, they were the leaders of the team that prepared the Czech edition of the Jerusalem Bible – the premier work of Catholic biblical studies of the second half of the twentieth century.

The annual lecture is organised in order to acknowledge the importance of the personality of J.L. Fischer. Its tradition has been commenced in 1994 on the occasion of the 100th anniversary of the birth of the first rector of the re-established university in Olomouc, when it was held by President of the Catholic University Eichstätt-Ingolstadt, Mikuláš Lobkowicz.

## Václav Pačes lectured students in the Fortress of Knowledge

Three hundred students from two Olomouc grammar schools attended the session with Prof Václav Pačes, who lectured on November 4 in the Fortress of Knowledge on the occasion of the Week of Science and Technology organised by the Academy of Sciences of the Czech Republic. The top scientist provided insight into molecular genetics and showed the beauty of science.

## Czech minister and a philosopher on the refugee crisis

The themes such as fear of migration, European values and public space, were discussed by the guests of a debate called "The Refugee Crisis". The crowded auditorium of the UP Faculty of Education witnessed the encounter of Jiří Dientsbier, Czech Minister for Human Rights, and philosopher Václav Bělohradský. The more than two-hour debate was moderated by Martin Škabraha. While Dientsbier focussed on the current political context related to migration, Bělohradský offered a wider philosophical perspective.

According to the statistics of the Ministry of Interior of the Czech Republic, 1156 persons applied for asylum in 2014. It was granted to 82 persons. Almost 300 persons received "supplementary protection", i.e. the opportunity to stay in the Czech Republic for a period of 1 to 3 years. Both categories were dominated by Ukrainian nationals, followed by Syrians.





# Science and Research

at Palacký University

## Science and Research at Palacký University

Due to the quality of science, research, and creative output, Palacký University has been constantly one of the most prominent universities in the Czech Republic. This has been evident in the amount of public monies allocated to UP, including the support for specific research and finances for the development of the institution. In 2015, newly constructed research and education facilities were successfully financed, while these centres stabilised their research teams and joined international projects. A major achievement in 2015 was the awarding of a European Research Council grant in the Consolidator category to Prof Michal Otyepka from the UP Faculty of Science.

### Biophysicists investigated how to avoid side effects in cancer treatment

A mere coincidence was behind a discovery that might be able to help reduce the adverse effects of cisplatin, one of the most effective and commonly used anti-cancer drugs. Scientists from the Faculty of Science have found out that this drug impairs the function of an important enzyme, the sodium-potassium pump. They have also described the mechanism of their interaction. The findings of Czech scientists are the first step on the way to the removal of the adverse effects of cisplatin, while maintaining its therapeutic effects. They have been investigating this issue for about five years.

### Zoologist decodes rhino “speech”

To understand the vocal and olfactory communication of the southern white and the northern white rhinoceros – this was the main objective of zoologist Ivana Cinková from the Faculty of Science in Olomouc, who hopes to utilise her findings in saving these highly endangered species. Her investigation has been based on the fact that these two rhino species are the only ones to use their voices for contact. The animals most usually use

them to greet each other when individuals from different groups meet, or to call each other when lost. She analysed these contact voices with her colleague. The findings concerning their vocal and olfactory communication may play a vital role in the zoos where rhinos are raised. She published her findings in the journal *Animal Cognition*.

### Scientists developed ecological fertilisers with plant hormones

Researchers from the Centre of the Region Haná for Biotechnological and Agricultural Research, together with the Fosfa company, developed unique growth stimulators for field crops as well as fruit and vegetable crops. They contain derivatives of plant hormones which have not been much used in such stimulators. While most leaf growth stimulators are universal, now scientists prepared specific stimulators for specific plants. Although the derivative is synthesised, it is an analogy of a natural compound, thus with minimum impact on the environment. The originality of the discovery was confirmed by the Industrial Property Office, which registered six of these preparations as utility models.





## Experts monitored deaths of honey bee colonies and their causes

Information on the death of honey bee colonies and the risk factors that may hinder their successful hibernation was brought by the COLOSS project "Monitoring of the success rate in hibernation of honey bee colonies". The domestic members of the international team were from the UP Faculty of Science together with the Working Company of Frame-Hive Beekeepers CZ. The aim of the project was to find out how bee colonies can be more effectively protected from death and to monitor possible risk factors. The international project began in 2007; the Czech Republic, with its 47 thousand beekeepers, joined the project in 2014.

## Scientists revealed that cytokinins also affect resistance to TB

Scientists from the Centre of the Region Haná for Biotechnological and Agricultural Research together with their colleagues abroad studied cytokinins and found out that one of the genes responsible for their metabolism determines the level of infectiousness of tuberculosis. The study was initiated by American bi-chemists and medical researchers who have been studying *Mycobacterium tuberculosis* for several years. The article, published in the renowned journal *Molecular Cell*, reveals that cytokinins are not mere signal substances present exclusively in plants, but they also have a significant role in the animal and bacterial world, with considerably more functions than ever supposed. This information may be of import for medicine as well as other disciplines.

## Book contributed to better decisions in landscape planning

The history of pond building and drainage as well as the imprint of these bodies of water into the face of the landscape is mapped by the book *Historical Man-Made Ponds in the Czech Republic – Comparing the current situation and the mid-19th century*. Experts from the UP Faculty of Science and partner institutions prepared materials for prospective renewal of vanished ponds or landscape revitalisation and anti-flood measures. They mapped the space covered by historical ponds as noted in the military mapping in the years 1836–1852. The results were then compared with the status quo. The authors also created a map

of the current state of the historical ponds, which is available on the internet.

## Opticians sped up quantum information processing

Olomouc scientists are capable of increasing by tenfold the efficiency of devices for quantum information processing, during which data is transmitted via photons. They use a special quantum gate, developed in 2011, and recently found another key function of its use. The discovery was published in the U.S. journal *Physical Review Letters*. The article demonstrates that the gate can make the circuits for quantum computers much more simple and effective. They believe that it will be applied mainly in quantum communication networks.

## Birds see the world in more colours than humans

Olomouc ornithologists rebutted another traditional myth in biology. Avian eggshells are often considered exceptionally diverse in colours, however in fact they are very constrained in this aspect – at least from the perspective of the birds, whose vision is much more developed compared to humans. The study of the scientists from the UP Faculty of Science shows that avian eggshell coloration occupies only 0.1% of the avian perceivable colour spectrum. The main author used the average reflectance spectra of avian eggshells from 636 species, including all main avian evolutionary lines. The study was published in the journal *Biological Letters*.

## Olomouc scientists developed new anticancer drugs

Scientists from the Faculty of Science and the Regional Centre of Advanced Technologies and Materials achieved a significant advancement in the development of efficient antitumour drugs. They explored novel approaches in order to improve the effectiveness of cisplatin – one of today's most used drugs on a base of platinum. Their goal was to prepare substances with considerable antitumour effects as well as substances with fewer undesired side effects. This long-term research culminated with being granted a European patent, the first step to the potential utilisation of these substances in the treatment of tumour diseases.



## Chemists' card detects contamination in drinking water

A cheap and quick test that should reveal contamination in drinking water was developed by chemists from the Regional Centre of Advanced Technologies and Materials after two years of research. The tester, in the form of a small card, will detect chemical and microbiological contamination. Olomouc chemists and IT experts are currently working on the last step, which is providing the test results by means of smart phones. They are also addressing companies that may be interested in its production.

## Scientists advised farmers to increase the species diversity of meadows

Ecologists from the Faculty of Science know the recipe how to ensure high productivity of agricultural locations in harmony with nature – to support maximum plant diversity in agricultural meadows and to manage the grasslands in turn with mowing and grazing. Experts monitored locations in the White Carpathians, where they studied again the local samples of soil and plant material, after seven years. The research findings were published in the Journal of Applied Ecology, which then caught the attention of the European Commission, and the text was republished in one of the EC bulletins.

## Unique human cell models reveal toxic substances

Toxicologists from the Faculty of Science developed unique human cell models which are capable of detecting harmful substances in the environment or food. Scientists can use them in preclinical testing for side effects of potential new drugs. The discovery has found practical use: the university signed a licence agreement with the Canadian biotechnological company Applied Biological Materials concerning commercial use of these cell lines.

## Human voice and birdsong share the same mechanism

An international scientific team, including experts from the Faculty of Science, found out that birds and humans make

sounds in an identical way. The researchers developed a unique experimental system that enabled them to examine the voice organ of birds in depth and study its functioning in detail. The discovered that the sound of birds, which may resemble whistling at first, is made by the same oscillation in the birds' vocal organs as in human vocal folds. The findings were published in the journal Nature Communications.

## US patent confirmed the significance of potential anti-cancer substances

Scientists from the Centre of the Region Haná for Biotechnical Agricultural Research discovered another group of substances derived from cytokinins, plant hormones with a distinct antitumour effect. Cytokinins are plant hormones that regulate the cell cycle in plants. They are used in agriculture and plant biotechnologies, but they have a number of applications in medicine too. Olomouc scientists have even managed to synthesise this new group of substances. The granted United States patent is crucial in negotiations with potential investors who would like to work further with the substances and reach the stage of clinical testing.

## Another new plant species from Borneo discovered by Olomouc scientists

The plant kingdom has been enriched by a new species. It is the tiny *Thismia brunneomitra*, its flower reminiscent of a bishop's mitre. This non-green and very inconspicuous plant was discovered by experts from the Faculty of Science during their expedition to a rainforest on Borneo. The information about this new addition was published in the scientific journal Phytotaxa. *Thismia brunneomitra* is the second representative of the *Thismia* genus found by Olomouc experts on the island. In 2013 they discovered a plant which they named *Thismia hexagona*.

## Olomouc scientists awarded by the Czech Minister of Health in 2015

Three out of seven awards by the Czech Minister of Health in 2015 went to Palacký University. The first award was granted to the team of Jiří Bártek in the Institute of Molecular and Translational Medicine. This main award for health-related research and

development for 2015 was recommended by the UP Scientific Board Internal Grant Foundation due to excellent results in the long-term research of brain tumours.

Honorable mention was awarded to the teams of David Školoudík from the Department of Nursing at the Faculty of Health Sciences for new findings in the use of neurosonology in the treatment of cerebrovascular events; and that of Jiří Gallo,

Head of the Department of Orthopaedics at the Faculty of Medicine, who focussed on molecular research into the mechanisms of periprosthetic osteolysis – the most common cause of complications after hip replacement.

The ceremony took place on December 17 in the Martinic Palace in Prague on the anniversary of famed Czech scientist J.E. Purkyně's birth.

## UP publication entries in 2015 according to the WOS and SCOPUS in terms of publication type and discipline

WOS		SCOPUS	
Programme	Number	Programme	Number
PHYSICS	217	MEDICINE	376
CHEMISTRY	182	BIOCHEMISTRY, GENETICS AND MOLECULAR BIOLOGY	290
BIOCHEMISTRY MOLECULAR BIOLOGY	98	PHYSICS AND ASTRONOMY	219
PLANT SCIENCES	73	CHEMISTRY	209
SCIENCE TECHNOLOGY OTHER TOPICS	68	AGRICULTURAL AND BIOLOGICAL SCIENCES	202
PHARMACOLOGY PHARMACY	67	MATHEMATICS	103
ONCOLOGY	59	ENGINEERING	94
ENGINEERING	59	COMPUTER SCIENCE	87
OPTICS	48	MATERIALS SCIENCE	79
ENVIRONMENTAL SCIENCES ECOLOGY	47	PHARMACOLOGY TOXICOLOGY AND PHARMACEUTICS	78
RESEARCH EXPERIMENTAL MEDICINE	46	SOCIAL SCIENCES	72
COMPUTER SCIENCE	44	ENVIRONMENTAL SCIENCE	65
MATHEMATICS	40	EARTH AND PLANETARY SCIENCES	56
NEUROSCIENCES NEUROLOGY	39	HEALTH PROFESSIONS	55
ASTRONOMY ASTROPHYSICS	38	CHEMICAL ENGINEERING	42
MATERIAL SCIENCE	37	NEUROSCIENCE	29
ZOOLOGY	34	ARTS AND HUMANITIES	24
HEMATOLOGY	34	NURSING	21
PUBLIC ENVIRONMENTAL OCCUPATIONAL HEALTH	27	IMMUNOLOGY AND MICROBIOLOGY	20
PSYCHIATRY	24	DECISION SCIENCES	13
ENDOCRINOLOGY METABOLISM	22	MULTIDISCIPLINARY	13
CARDIOVASCULAR SYSTEM CARDIOLOGY	22	PSYCHOLOGY	12
CELL BIOLOGY	21	ENERGY	11
BIOTECHNOLOGY APPLIED MICROBIOLOGY	21	DENTISTRY	8
AGRICULTURE	20	BUSINESS, MANAGEMENT	4

UP publication entries in 2015 according to the WOS and SCOPUS in terms of publication type and discipline

	2014	2015		2014	2015
WOS	1092	1255	SCOPUS	1087	1276
ARTICLE	841	996	ARTICLE	865	1048
MEETING ABSTRACT	107	127	CONFERENCE PAPER	75	62
REVIEW	56	61	REVIEW	54	57
PROCEEDINGS PAPER	47	36	ARTICLE IN PRESS	65	71
EDITORIAL MATERIAL	14	13	LETTER	10	7
LETTER	9	9	BOOK CHAPTER	3	12
BOOK CHAPTER	13	19	EDITORIAL	6	9
CORRECTION	5	7	BOOK	1	2

Twenty most cited scientific journals in the WOS

Biomedical Papers	36
Physical Review A	31
Journal of High Energy Physics	31
European Physical Journal C	31
Plos One	25
Physical Review D	22
Physical Review Letters	18
European Psychiatry	18
Zootaxa	13
Physics Letters Section B	13
Haematologica	13
Neuroendocrinology Letters	12
Physical Chemistry Chemical Physics	10
Central European Journal of Public Health	10
Blood	10
Scientific Reports	9
RSC Advances	9
Fuzzy Sets and Systems	9
Dalton Transactions	9
Annals of Oncology	9



The most prestigious publications (by IF – impact factor) co-authored by UP employees in 2015

[1] Burton, B.K.; Balwani, M.; Feillet, F.; et al. (Smolka, Vratislav): A Phase 3 Trial of Sebelipase Alfa in Lysosomal Acid Lipase Deficiency  
*New England Journal of Medicine*, 2015, vol. 373, n. 11, pp. 1010–1020 (IF=55.873)

[2] Georgakilas, Vasilios; Perman, Jason A.; Tuček, Jiří; et al. (Zbořil, Radek): Broad Family of Carbon Nanoallotropes: Classification, Chemistry, and Applications of Fullerenes, Carbon Dots, Nanotubes, Graphene, Nanodiamonds, and Combined Superstructures  
*Chemical Reviews*, 2015, vol. 115, n. 11, pp. 4744–4822 (IF= 46.568)

[3] Grainger, John D.; Locatelli, Franco; Chotsampancharoen, Thirachit; et al. (Pospíšilová, Dagmar): Eltrombopag for children with chronic immunethrombocytopenia (PETIT2): a randomised, multicentre, placebo-controlled trial  
*Lancet*, 2015, vol. 386, n. 10004, pp. 1649–1658 (IF= 45.217)

[4] Xu, Guotai; Chapman, J. Ross; Brandsma, Inger; et al. (Mistrík, Martin; Bártek, Jiří): REV7 counteracts DNA double-strand break resection and affects PARP inhibition  
*Nature*, 2015, vol. 521, n. 7553, pp. 541–U308 (IF= 41.456)

[5] Gawande, Manoj B.; Goswami, Anandarup; Asefa, Tewodros; et al. (Zbořil, Radek): Core-shell nanoparticles: synthesis and applications in catalysis and electrocatalysis  
*Chemical Society Reviews*, 2015, vol. 44, n. 21, pp. 7540–7590 (IF= 33.383)

[6] Sharma, Virender K.; Filip, Jan; Zbořil, Radek; Varma, Rajender S.; et al.: Natural inorganic nanoparticles – formation, fate, and toxicity in the environment  
*Chemical Society Reviews*, 2015, vol. 44, n. 23, pp. 8410–8423 (IF= 33.383)

[7] Dietlein, Felix; Kalb, Bastian; Jokic, Mladen; et al. (Bártková, Jiřina; Bártek, Jiří): A Synergistic Interaction between Chk1- and MK2 Inhibitors in KRAS-Mutant Cancer  
*Cell*, 2015, vol. 162, n. 1, pp. 146–159 (IF= 32.242)

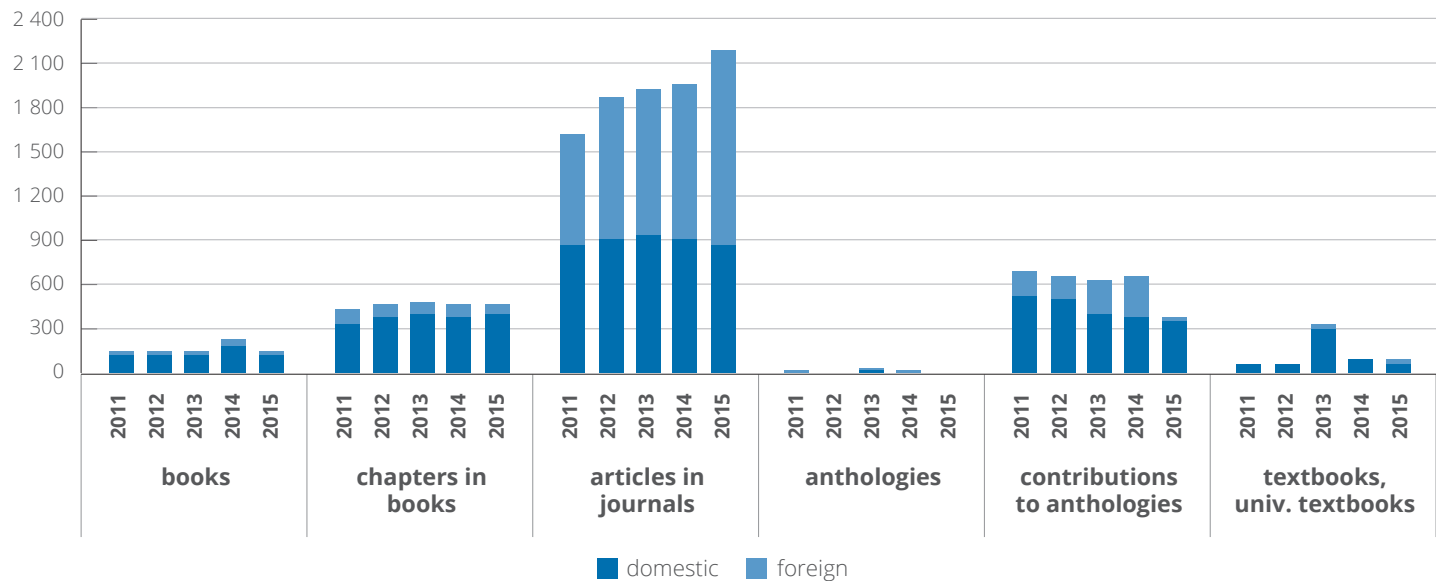
[8] Childs, Erica J.; Mocci, Evelina; Campa, Daniele; et al. (Janout, Vladimír): Common variation at 2p13.3, 3q29, 7p13 and 17q25.1 associated with susceptibility to pancreatic cancer  
*Nature Genetics*, 2015, vol. 47, n. 8, pp. 911–916 (IF= 29.352)

[9] Melichar, Bohuslav; Adenis, Antoine; Lockhart, A. Craig; et al.: Safety and activity of alisertib, an investigational aurora kinase A inhibitor, in patients with breast cancer, small-cell lung cancer, non-small-cell lung cancer, head and neck squamous-cell carcinoma, and gastro-oesophageal adenocarcinoma: a five-arm phase 2 study  
*Lancet Oncology*, 2015, vol. 16, n. 4, pp. 395–405 (IF= 24.690)

[10] Sharma, Virender K.; Zbořil, Radek; Varma, Rajender S.: Ferrates: Greener Oxidants with Multimodal Action in Water Treatment Technologies  
*Accounts of Chemical Research*, 2015, vol. 48, n. 2, pp. 182–191 (IF= 22.323)



Domestic and foreign publication activity



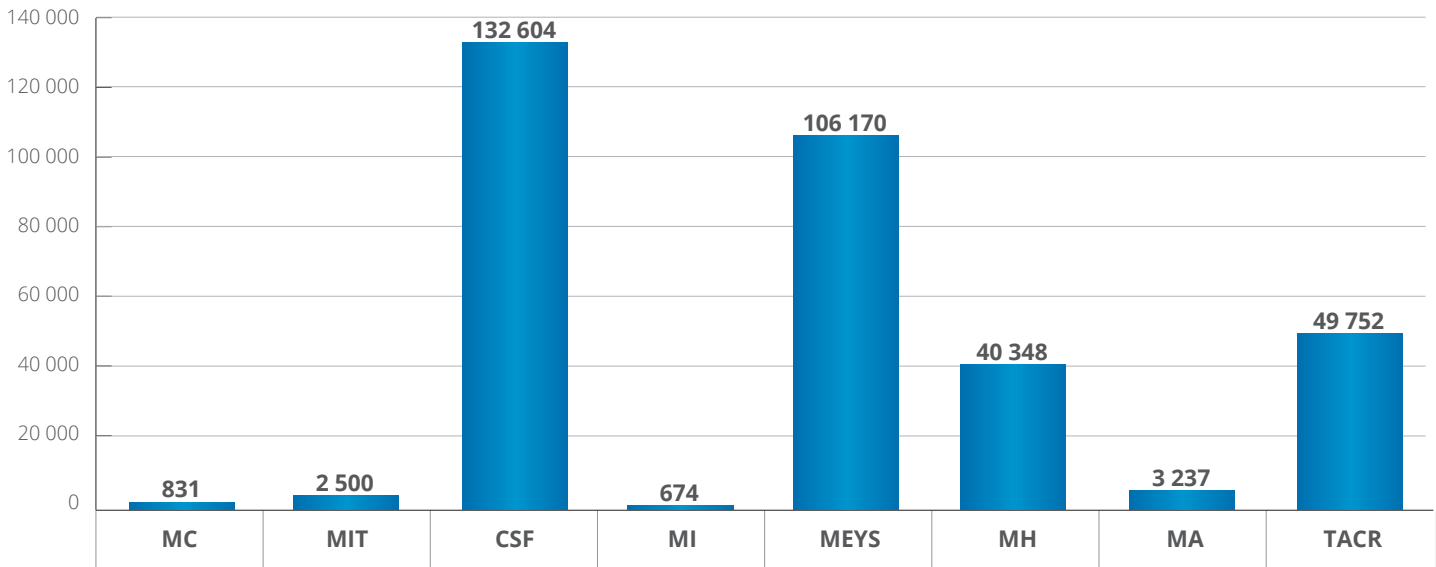
Support programme funds for research, development, and innovation awarded in 2015

The support programme funds received in 2015 present the financial means for projects at UP in 2015. The amount for the investigation of 223 projects, 56 of which UP is a co-investigator, was 336 116 thousand CZK (€12 434 thousand). The largest number of UP projects were realised at the Czech Science Foundation. In comparison to 2014, the support programme funding increased by more than 40 million CZK (€15 million).

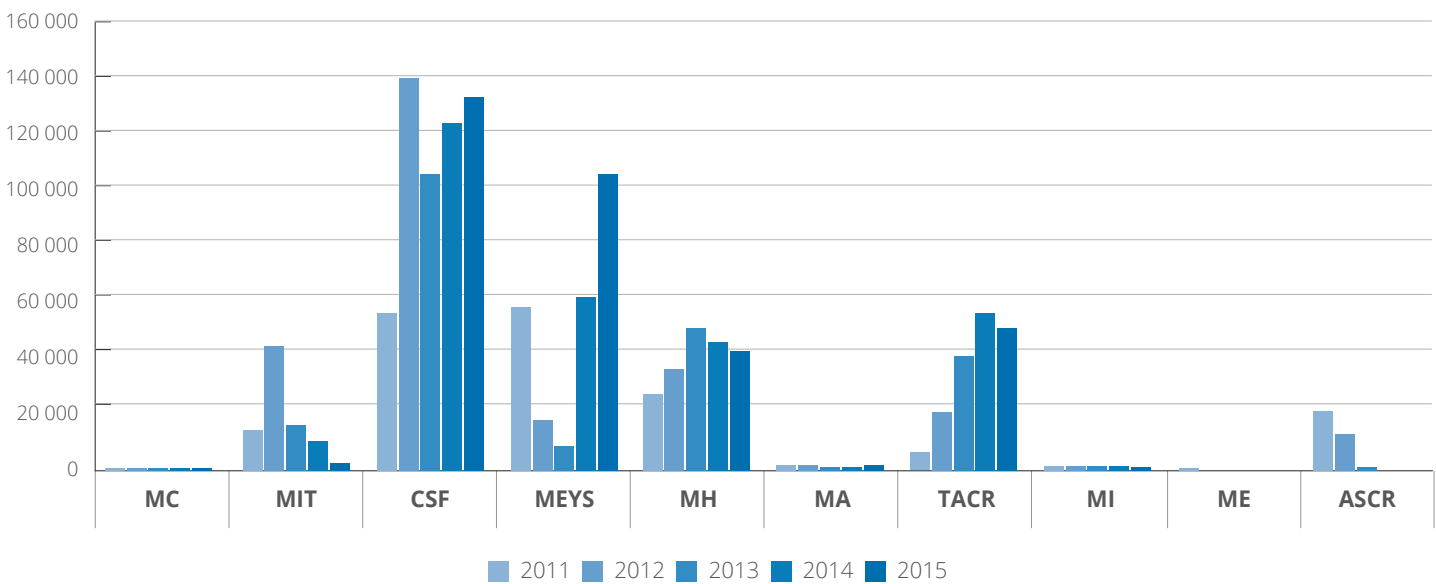
The total amount for projects financed in 2015 with UP as the co-investigator or main investigator / (in thousands of CZK)

Guarantor	Total for the projects	for UP
The Ministry of Culture of the Czech Republic (MC) 1 project	6 010	831
The Ministry of Industry and Trade of the Czech Republic (MIT) 1 project	6 300	2 500
The Czech Science Foundation (CSF) 112 projects	261 624	132 604
The Ministry of Education, Youth and Sports of the Czech Republic (MEYS) 31 projects	276 965	106 170
The Ministry of Health of the Czech Republic (MH) 45 projects	76 600	40 348
The Ministry of Agriculture of the Czech (MA) 7 projects	19 340	3 237
The Technology Agency of the Czech Republic (TACR) 24 projects	184 159	49 752
The Ministry of the Interior of the Czech Republic (MI) 2 projects	1 598	674
TOTAL 223 projects	555 631	336 116

Support programme for UP in 2015 (in thousands of CZK)



The development of support for UP (in thousands of CZK)



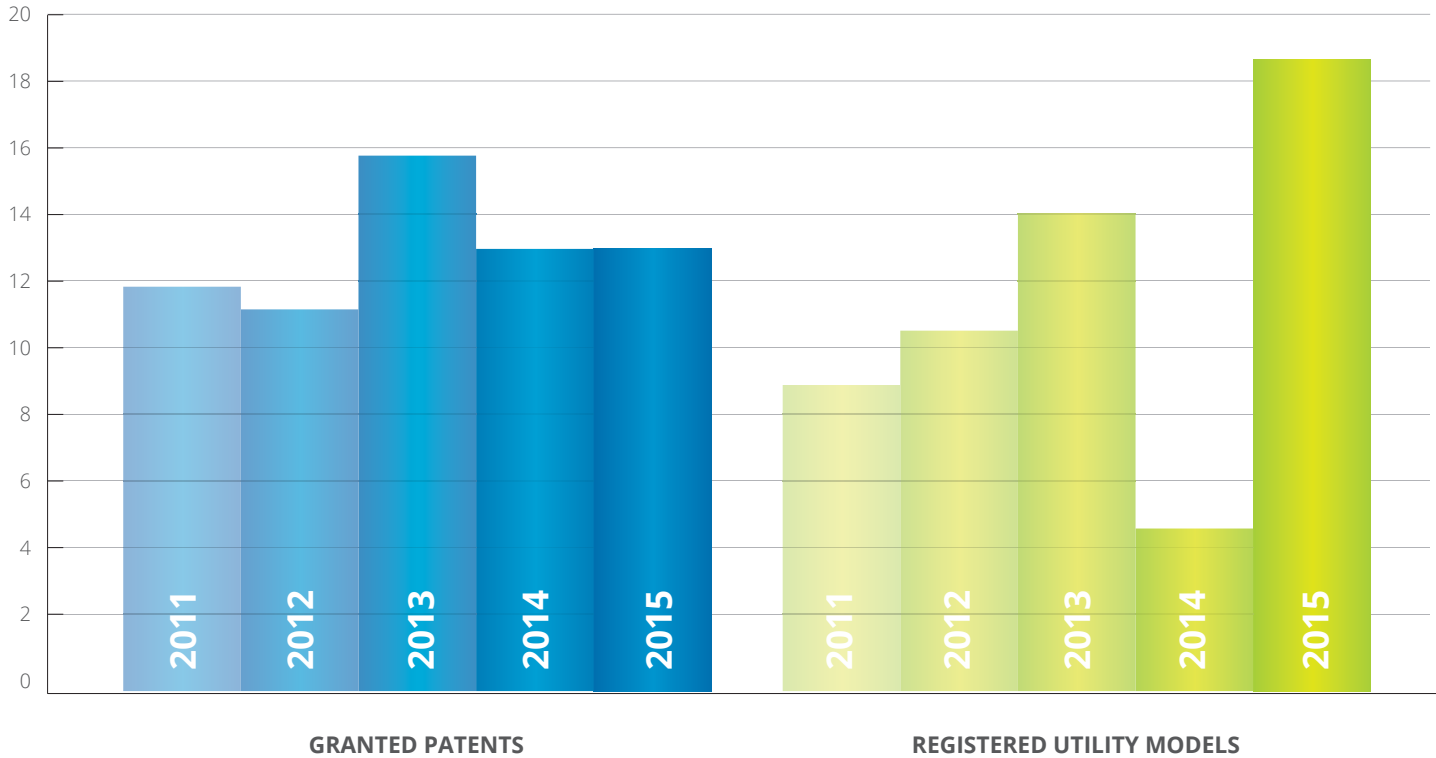
The Ministry of Culture of the Czech Republic (MC); The Ministry of Industry and Trade of the Czech Republic (MIT); The Czech Science Foundation (CSF); The Ministry of Education, Youth and Sports of the Czech Republic (MEYS); The Ministry of Health of the Czech Republic (MH); The Ministry of Agriculture of the Czech Republic (MA); The Ministry of the Interior of the Czech Republic (MI); The Technology Agency of the Czech Republic (TACR); Ministry of the Environment (ME); The Academy of Sciences of the Czech Republic (ASCR).

Patents and utility models

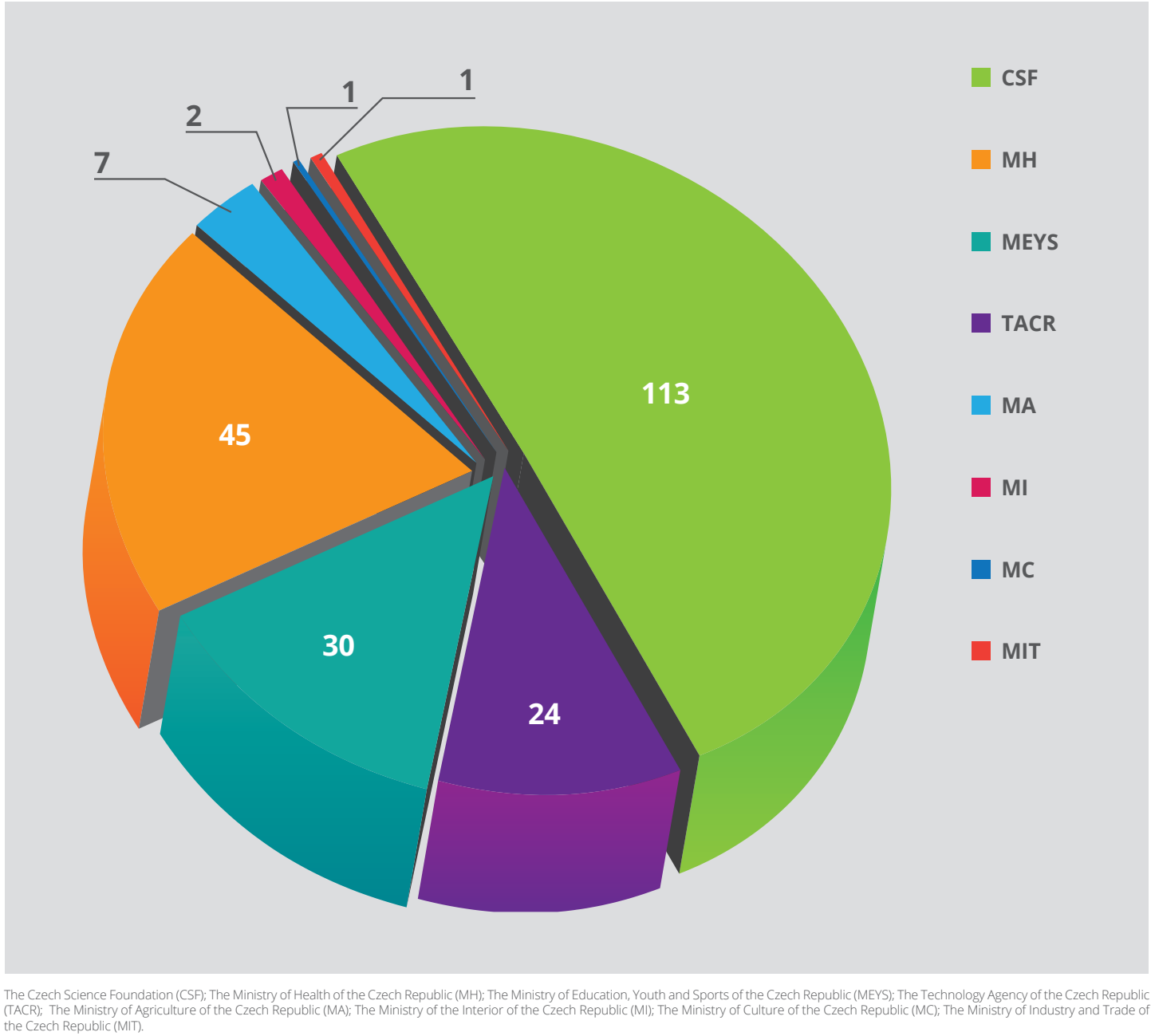
Palacký University was granted these patents, utility models, industry designs, and trademarks in 2015:

- **European patents:** 1 (EP2636410B1),
- **National patents in the Czech Republic:** 12 (305600, 305585, 305626, 305625, 305538, 305607, 305374, 305624, 305371, 305466, 305170, 305411),
- **Utility models registered in the Czech Republic:** 19 (28806, 28867, 28377, 28397, 28964, 28596, 28350, 28818, 28195, 27984, 27983, 27982, 27981, 27980, 27979, 27863, 27799, 28304, 27816),
- **Industrial designs:** 2 (36491, 36622),
- **Trademarks:** 7 (344140, 348433, 346397, 346348, 348582, 347868, 347869)

Patents and utility models



Number of projects and providers' structure in 2015







# World Rankings

## Scientific and Educational Activities

# World Rankings

“Palacký University and its scientific and educational activities are gaining increased attention, especially in the global context. UP is one of the highest rated Czech universities today. What is significant for us is that year by year, UP keeps placing higher in international rankings than many renowned institutions in Europe and in the world. “Many ranking indicators are directly related to the size of a university, but Olomouc’s university, which is a rather small institution in global terms, is above standard,” said UP Rector Jaroslav Miller.

Palacký University Olomouc (UP) has repeatedly scored in prestigious international rankings comparing global universities. Such rankings evaluate the scientific performance of universities, based mainly on Scopus and Web of Science databases. Most of the rankings take into account the quality of teaching, internationalisation of the university, co-operation with industry and non-academic sphere, etc. University research and teaching reputation is in many cases also a significant part of the evaluation.

## Times Higher Education World University Rankings

One of the most renowned global rankings of universities, The Times Higher Education (THE) World University Ranking, evaluating universities in several areas (the quality of teaching, science and research, citations, international outlook, and co-operation with the corporate sector), first featured Palacký University in 2015. Palacký University thus entered the elite club of the 800 most renowned universities from 70 countries, placing at 501–600.

## U.S. News Best Global Universities rankings

UP’s position among the world’s top universities was confirmed by the journal U.S. News & World Report, featuring the world-renowned U. S. News Best Global Universities Rankings. In the 2015 edition, UP has stepped up to the 473rd position among the 800 most respected universities, jumping fifteen positions compared to last year. These rankings are based on data and metrics provided by Thomson Reuters InCites research analytics solutions as well as on data submitted by the universities themselves. The rankings employ 12 indicators that measure academic research performance and international collaboration. A reputation survey, rated by global academics, is also taken into account.

## The Center for World University Rankings

In the ranking of the world’s best universities provided by The Center for World University Rankings (CWUR), Palacký University

placed 724th, rising 80 places compared to last year's CWUR ranking – the best improvement among the other four Czech universities included. The one thousand ranked universities represent a mere 3 percent of all the universities in the world. CWUR uses eight criteria in the ranking. Besides those that typically focus on performance in science and research, it also includes indicators measuring the quality of education and alumni employment.

CWTS Leiden Ranking

Palacký University also succeeded, due to its high number of important scientific publications, in the CWTS Leiden Ranking 2015 (published by the Centre for Science and Technology Studies) which measures the scientific performance of 750 major universities worldwide. The oldest Moravian university was ranked 260 in Europe and 597 in the world in the category evaluating the number and the proportion of a university's publications that are in the top 10% most frequently cited. An important part of the rankings is the evaluation of publication output made in collaboration with other institutions, with foreign institutions, and with commercial/industrial partners. A major achievement has been made in the category of publications produced with international collaboration in Physical Sciences and Engineering – UP ranked 66 in the world and 56 in Europe.

QS EECA Ranking

The UK education network Quacquarelli Symonds (QS) also published its ranking (Quacquarelli Symonds Emerging Europe and Central Asia Ranking) for the years 2015 and 2016, evaluating 150 universities from 30 countries. Palacký University placed 64th. QS highlighted the high rate of citations in publications and emphasis on research at UP.

Ranking	2014 position	2015 position
THE World University Rankings	x	501–600
U.S. News Best Global Universities Rankings	488	473
CWUR – The Center for World University Rankings	804	724
QS Emerging Countries and Central Asia Ranking	71–80	64
THE BRICS and Emerging Economies	x	92
CWTS Leiden Ranking	ranked according to selected categories	
U-Multirank	ranked according to selected indicators	





# Science and Technology Park



The UP Science and Technology Park (UP STP) is a place for business growth, offering a bridge between the scientific and business worlds since the year 2000. It provides office and production spaces for rent, consultation services, and supports commercial use of UP expertise. At the end of 2015, a specialised 3D print workplace and numerical computation facility began operations.

## STP Structure

The UP STP is made up of two divisions and a new workplace:

### Business Support division

Helps beginning entrepreneurs to jump start their businesses. UP STP is building a community of business people in the form of the UP Business Club. It provides rental space to new and innovative firms. It runs educational and networking events aimed at personal and commercial growth. It offers rental space to the most interesting projects and consultation services by consultants and mentors at affordable prices and for free (Business Catapult).

### Technology Transfer division

Administrates UP intellectual property. It is engaged in the development of projects of commercial interest making use of university science and research findings. It provides commercial collaboration with firms in the areas of contracted research, research on commission, and on the basis of licensing agreements. It supports establishment of firms made up of university employees. It provides project support for academics and firms.

### UPrint 3D workplace

The UPrint 3D print workplace started operations at the end of 2015 – one of the largest 3D print centres in Moravia, offering 3D printing from plastic, polymers, metal powder and paper, and offering 3D scanning. The workplace will also offer numeric modelling, providing numerical simulations in the program ANSYS Multiphysics on an SGI UV2000 server and including rental of computer time.

### UP STP Activities in 2015

The UP Science and Technology Park is the best place for business in Olomouc. It offers 4083 m<sup>2</sup> of space for business operations in three buildings.

### Types of premises available for lease:

- virtual offices – company headquarters
- co-working 24/7 and co-working mini
- office spaces
- production spaces for small manufacturing
- laboratories
- classroom with all-inclusive refreshments (coffee/tea provided for free)

### Block A

*Used mainly by manufacturing firms.*

**Block A:** 7 firms, 53 employees, 93% occupancy.

- 8 multi-purpose spaces suitable for manufacturing or laboratories, with cca 120 m<sup>2</sup>
- 3 manufacturing or laboratory spaces with 237–282 m<sup>2</sup>

### Block B – Business Catapult

*Starting entrepreneurs walk the corridors of Block B due to its facilities and the design of its spaces. Renters appreciate the possibility of co-working and sharing facilities (reception, printers, meeting rooms, refreshments, relaxation zones).*

**Block B:** 39 firms, 57 employees, 81% occupancy.

- 19 offices with 36 m<sup>2</sup>
- 2 pilot plants with 178 m<sup>2</sup>
- virtual office / co-working / relaxation zone
- classroom

Block C – Business Catapult II

The newest building in the complex offers growing and innovative firms not only first-class office space, but also laboratories and manufacturing spaces.

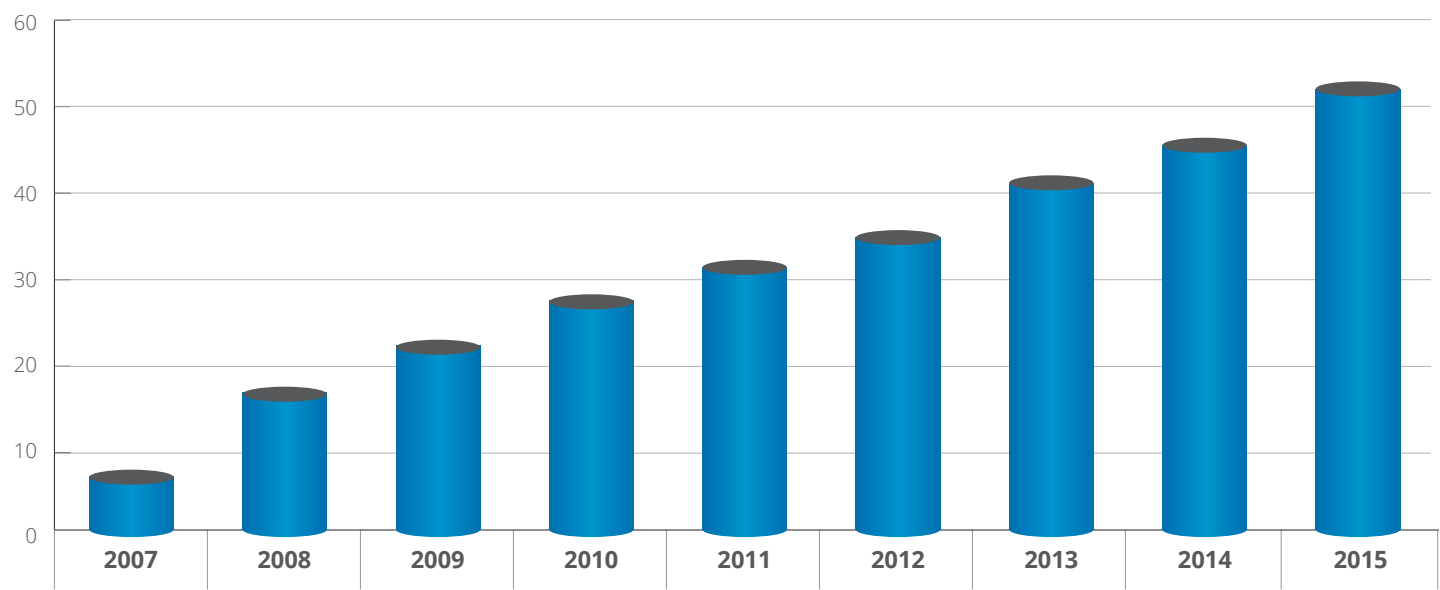
**Block C:** 6 firms, 47 employees, 75% occupancy.

- 26 offices with 18–25 m²
- 22 laboratories with 25 m²
- small manufacturing hall with 162 m²

As of 31 December 2014, UP STP had 52 lease holders occupying 3207 m², representing 83% total occupancy. The firms employ 158 people.

Number of firms – renting offices and labs	24
Number of firms – virtual headquarters	27
Number of firms – co-working (shared office)	1
Number of firms – co-working mini	3

Number of UP STP lease holders



Competition for Best Business Idea

The contest Enterprising Mind searches for and rewards the best business ideas. Dozens of entries are submitted annually to UP STP consultants, who engage themselves in preparing contest entries – helping them with creating business plans.

	2015	2014	2013	2012	2011	2010
Number of registered contestants	85	101	97	56	56	36
Number of submitted entries	51	54	67	43	41	22

UP Business Club

Inspirational community of student and entrepreneurial go-getters, connecting the academic and business worlds.

**Membership in the UP Business Club offers:**

- participation in specialised networking events for club members;
- access to materials and video recordings from events held;
- free legal consulting (Law Clinic)
- 2 hours free consulting every fiscal quarter

Under the rubric of the UP Business Club, UP STP runs regular seminars and workshops for beginning and seasoned entrepreneurs. During 2015, UP STP held 15 events with 509 total participants, made up of students and business people alike.

UP Business Catapult programme

**Advantageous combination of rental space and consulting services for starting businesses includes:**

- discounts on spaces for business (6 months’ free use of virtual office and co-working for UP students and employees
- free use of conference rooms and discounts on classroom rental
- 5 hours free monthly UP STP consulting services
- twice annual business efficiency evaluation
- up to CZK 30 000 (€ 1 100) towards consulting services from external consultants
- possibility of meetings with experienced mentors
- priority registration for events, access to materials
- free membership in the UP Business Club

UP Business Camp 2015

This conference about the road to a successful business is the annual apex of UP STP activities in the area of personal development and business support. In 2015, organisers aimed at the start-up scene, thus the conference became a showplace of successful young entrepreneurs from throughout the Czech Republic, including Google global community manager Daniel Franc; architect and Czech of the Year, Ondřej Chybík; innovations leader at 3M, Jan Mašek; author of the bestseller Ending Procrastination, Petr Ludwig; and the globetrotter Ladislav Zibura. The event was attended by 180 people, including representatives of partner firms.

Business development – Technologies Transfer division

In order to ensure better cooperation between businesses and UP, in 2015 the lists of UP equipment and services at individual workplaces and research centres were updated. Cooperation possibilities are listed on the webpages [www.spoluprace.org/en/home](http://www.spoluprace.org/en/home) of the agency CzechInvest.

UP STP has created advertising materials, videos, web pages and product information sheets for different UP commercial outputs. One of the most successful is the website [www.mossbauer-spectrometers.com](http://www.mossbauer-spectrometers.com) which sells Mössbauer spectrometers made by UP and the Regional Centre of Advanced Technologies and Materials. In 2015 there were three sales of Mössbauer spectrometers through this website.

UP STP was responsible for the promotion of stress tests made by the Faculty of Physical Culture during the Olomouc Half-Marathon, resulting in four commercial contracts.

Proof of concept

In 2015, 10 proof-of-concept projects were earmarked for CZK 2.6 million out of the CZK 20 million intended for the GAMA project from the Technology Agency of the Czech Republic (project no. TG01010080, title: Effective transfer of UP knowledge into practice). Thirty-three sub-projects registered for 4 calls for proof-of-concept projects. Sub-projects have their own web pages, which serve as both informational and sales tools; c.f. [www.magneticunitrap.com](http://www.magneticunitrap.com) or [www.quitaonline.com](http://www.quitaonline.com).

In 2015, 6 projects were completed: SuperQuita (investigator: Dr Dan Faltýnek); Unitrap (investigator: RNDr Karel Koberna, CSc., programme investigator: Mgr Gabriela Pokorná); Cytokinin (investigator: Dr Lucie Plíhalová); KeyLock (investigator: Dr Václav Ranc); and Antifog (investigator: Docent Robert Prucek). In 2015 there were 2 new calls, and 4 sub-projects launched: TouchMaps (investigator: Dr Jan Brus); TeamUP (investigator: Docent Jaroslava Kubátová; Kontrola vody (Water Testing – investigator: Docent Jan Petr); and Austi-nometr (Austenite Detector – investigator: Dr Jiří Pechoušek).

Commercialization of UP science and research findings

UP STP promoted the possibility of cooperation and promotion of UP findings at public events, for example at Speed Networking



held by the firm OK4Inovace, at events held by the Chamber of Commerce (Brokerage Event Horizon 2020 – Research, Development and Innovation), at events held by the Czech Industrial Property Office (Computer-Implemented Inventions), at the conference Practical Innovations during the campaign by the Confederation of Industry of the Czech Republic and at the Labour and Education Market held by the Olomouc Region.

In 2015, UP STP also organised presentations at individual firms. Among these were: On Semiconductor Czech Republic, Varroc Lighting Systems, Hella Autotechnik, LINET, MEGA, Mem-Brain, ŠKODA AUTO, ČEZ, Sigma Group, mcePharma, ABO valve, Meopta– optika, and GRANETTE & STAROREŽNÁ Distilleries.

There was emphasis placed on closer connections between the university and companies headquartered at UP STP. The firms Labicom and 3 Points (Tomáš Pithart from the UP Business Camp) cooperated with the UP Faculty of Education on a project to distribute collections of teaching aids to schools. Other connections between the business world and the university were made with the firms CSVG, Annabis and EOLA. UP STD prepared 9 marketing-commercialisation studies, including looking for potential clients interested in technology in scientific and patent literature.

## Consulting on protecting intellectual property

UP STP provided consulting in the area of intellectual property during the filing and processing of 9 applications (utility models, patents and protected trademarks) and actively took part in concluding agreements between joint inventors and co-owners of intellectual property. UP STP was consulted on replies to 3 patent application assessments: PV 2015-183, PV 2015-249, PV 2015-140 and new applications for 7 inventions, 2 protected trademarks, 3 utility models and 1 industrial model: PV 2015-141, PV 2015-140, PCT/CZ2015/050015, PV 2015-183, PV 2015-207, PV 2015-219, PV 2015-249, PUV 2015-30891, PUV 2015-30902, PUV 2015-31755, PPV 2015-40306, POZ 519443 and POZ 527728. It made 17 consultations on strategies for industrial property protection for new UP inventions, amounting to 93 hours.

## Contractual and contracted research

In 2015, UP STP had 61 commissions, of which 56 were commercial. In total, 40 of these (including innovation vouchers) were satisfactorily completed at UP.

## Proposals for internal regulations and procedures

UP STP in conjunction with scientific centres at UP prepared foundations for adaption of the directive B3-16/1-SR: Realisation of Industrial Property Rights, harmonising with the original version (B3-09/1-SR) currently valid in the Czech Republic. The directive will come into force at the beginning of 2016.

## Education, workshops, networking

UP STP provides education of students in doctoral study programmes at the Faculty of Medicine and Dentistry in the area of patent law, and training in the area of intellectual property for 20 students at the same faculty in the framework of the subject DSPL/B009 Transfer and Patent Protection of Research Outcomes. UP STP works with the UP Faculty of Arts in education in the area of business development and protection of business by means of industrial property rights.

### *UP STP is extending the network of contacts for technologies transfer:*

- Cooperating with technologies transfer centres in the Czech Republic and Slovakia (Slovak Academy of Sciences in Bratislava).
- Creating a network of project investigators in the GAMA project (Technology Agency of the Czech Republic) in order to improve the evaluation of the commercial potential of UP Science and Research.
- Maintaining relationships with potential investors into UP technologies and research results. New contacts include New World Technologies, RBA Technologies and more. It continues its cooperation with GlobeTech Innovation and INTV.

## Project support

UP STP has drawn up a list of regional funding mechanisms and administrative units useful for technologies transfer. It has secured support for the project Pre-seed at the UP Institute of Molecular and Translational Medicine. It has applied for a Small Grant from the International Visegrad Fund (Technology Transfer and Commercialization – What and How), projects within the framework of the EC Horizon 2020 Energy Efficiency Management Tool project in the activity H2020-EE-2014-CSA A-B-C and in the first call of the Interreg Central Europe project Improving Transregional Technology Transfer Capacity of Technology Trans-



*Visitors to the UP Science and Technology Park can even take advantage of a relaxation zone.*

fer Offices in Central Europe by Transfer of Best Practice, Training and Creating a Common Service Platform, to which it connected with partners from Slovakia, Slovenia, Germany, Italy, Austria, Poland, and Croatia. UP STP assisted in the preparation of 14 projects (of which 13 are in the Olomouc region and 1 in the South Moravian region) of the innovation voucher type – a project between UP and a firm in the amount of CZK 200 000 (€7 400). For 5 projects (in the amount of CZK 964 000 – €36 000) it carried out the complete preparations. And for one project, in the amount of CZK 199 999 (€7 400), it provided effective consulting.

It cooperated with the following companies on innovation vouchers: ASIO, AgroBioChem, AVENTRO, BioApex, BioPatterns, FAGRON, FARMAK, FERMAT Stroje Lipník, GRANETTE & STAROREŽNÁ Distilleries, CHEMAP AGRO, Medihope, OlChemIm, SAJM COMP and TRISOL farm. Many collaborations started by innovation vouchers carried on into other cooperative projects and commissions.

UP STP provided project support for the TRIO call for Doc Jan Vacek from the Faculty of Medicine and Dentistry and the firm TRYSTOM. It prepared the bases of the Technology Agency of the Czech Republic OMEGA project of Dr Matúš Šucha of the Psychology Department, UP Faculty of Arts. Within the auspices of the Partnership of Knowledge Transfer call, it was able to connect the firm mcePharma with Prof Michal Otyepka of the Department of Physical Chemistry, UP Faculty of Science and Regional Centre of Advanced Technologies and Materials.

## Specialised workplaces

### **UPrint 3D – 3D printing and scanning workplace**

In 2015, a new 3D printing centre began its trial run, going into full operations in February 2016 – one of the largest workplaces of its kind in Moravia. It offers 3D printing from various materials (metal, paper, plastic, photopolymers), 3D scanning of surfaces and textures of objects, precision scanning of small and mid-sized objects with an accuracy down to 0.08 mm, and scanning including textures with an accuracy of 0.035 mm.

### **Numerical Simulation Laboratory**

UP STP is preparing a High Performance Computing and Numerical Simulation Laboratory for commercial use. It offers a unique computations SGI UV2000 server intended for complicated numerical simulations. It is possible to run one's own software on the machine, and/or ANSYS Multiphysics, the most widespread software for numerical modelling of physical processes (flow, stress and fatigue calculations, etc.) in-house.

UP STP offers help in constructing computer models, creating computer networks (in the programs ANSYS Meshing and ICEM), running calculations, processing and evaluation of data. At the same time, it will be possible to carry out Multiphysics calculations, i.e. combining various physical models. It will also offer leasing of computer time on the SGI UV 2000 server.

# Accommodation and Dining



## UP Accommodation and Dining Office (UP ADO)

### Olomouc-Holice dining hall transformed, diners offered self-service

New screens with menus in Czech and English, a new compartment with fresh vegetables, and the possibility of choosing your own food combinations – these are innovations launched on February 2 at the dining hall in the Faculty of Science in Olomouc-Holice. The traditional choice from five meals ordered at least a day in advance remained. The Holice dining hall serves an average of three hundred meals a day.

### International cuisine on Wednesdays in March

University dining services offered an innovation – every Wednesday was devoted to international cuisine. On March 8, diners were offered Italian specialties. In addition to Italian-style chicken soup, they could choose Florentine roast pork, stuffed zucchinis, chicken cacciatore, spaghetti Bolognese, and lasagne. In the following two weeks dining services prepared Asian and Mexican food. The university dining services are the biggest in the Olomouc region, serving 4500 diners daily.

### UP Dining at the Garden Food Festival

Carrot crème soup, venison and beef goulash served inside a loaf of bread, “student” spätzle with smoked meat and cabbage – these were the delicacies UP Dining offered visitors to the first regional festival of fine food and drink. Three hundred servings of venison goulash were sold within the first three hours of the festival. UP Dining served 1400 meals during the weekend festival, which took place in Smetana Park in Olomouc on the weekend of May 16th. Ten students also took part in the festival competition for the best student recipe for soup. Barbora Štréglová, a student of Physiotherapy, wowed all the judges with her special beer

soup. Barbora Adamcová took second place with her red lentil soup, and Stanislav Jakeš took third with his Miso Shiru.

### Foreign students acquainted with accommodation and dining services

Making foreign students acquainted with the housing and dining services, with the operating rules, but mostly to acquaint students from various countries with each other, welcoming them to Olomouc – these were the goals undertaken by the Accommodation Board. In cooperation with the UP Accommodation and Dining Office, in November 2015, the Board held its first group meeting. The organisers welcomed students from China, France, Greece, Hungary, Kazakhstan, Portugal, Slovakia, and Spain. All interested parties discussed accommodation services, dining offers, activities at the Academic Sport Centre, and other possibilities in the complex. The Accommodation Board is a body of the students in UP housing and an advisory body to the Rector. It represents those in student housing during discussions with the management of the UP Accommodation and Dining Office and with UP management.

### UP Accommodation and Dining in 2015

UP Accommodation and Dining in 2015 underwent a personnel change in the position of the Director. December 2014 meant the end of the existing director's contract. At the beginning of the year there was a call for applicants to the position, which ended in June 2015 with a decision on the candidates. Ing. Josef Suchánek was chosen, and began his functions on September 1, 2015. Josef Schánek is a graduate of Ostrava Technical University. He served in management at Makro Czech Republic for twelve years.



UP ADO DEVELOPMENT CONCEPT

The Director presented a strategy plan for the development of UP ADO for the coming months and years at a meeting of the Rector’s Advisory Board and the UP Academic Senate. The plan was accepted; its motions will be put into place mainly in the year 2016 and after.

UP ADO STATUTE

In December 2015 the new UP ADO Statute came into force, including the organisational board – one of the most important norms at UP ADO. The new norm went into effect as of 1.1.2016.

PUBLIC PROCUREMENTS

During the year 2015, public procurements were realised to a small extent in an overall financial volume of 7 million CZK (€260 thousand), of which 5 million CZK (€185 thousand) were construction procurements and the rest supplies.

EVENTS

Accommodation and dining equipment – supplementation and extension of services (a selection):

- 3/2015 – Outfitting handicapped-accessible rooms and their finalisations at the J.L. Fischer dorm.
- 4/2015 – Outdoor concrete table tennis table at the General Svoboda dorm.

- 5/2015 – Outdoor grill with seating in the atrium of the B. Václavek dorm.
- 7/2015 – Installation of safety elements and systems at General Svoboda and J.L. Fischer dorms.
- 9/2015 – Wi-Fi network at the J.L. Fischer dorm.
- 9/2015 – Expanded meal capacity at the Neředín dining hall.
- 4Q/2015 – Partial reconstruction of the Doga student restaurant in the General Svoboda dorm in cooperation with new management, chosen in an open application process.
- Reconstruction of kitchenettes and hygienic facilities in the Neředín, Gen Svoboda, and other dorms.
- Preparation of plans projected for general reconstruction of the central dining hall at 17. Listopadu street, planned for 2017.

UP ADO took part in accommodation and dining at the following events:

- Academia Film Olomouc;
- The Maccabi Games – international sporting event;
- Olomouc Baroque Festival;
- Summer School of Slavonic Languages at UP FA;
- SDRUK – National Meeting of the Czech Libraries Association in Olomouc.

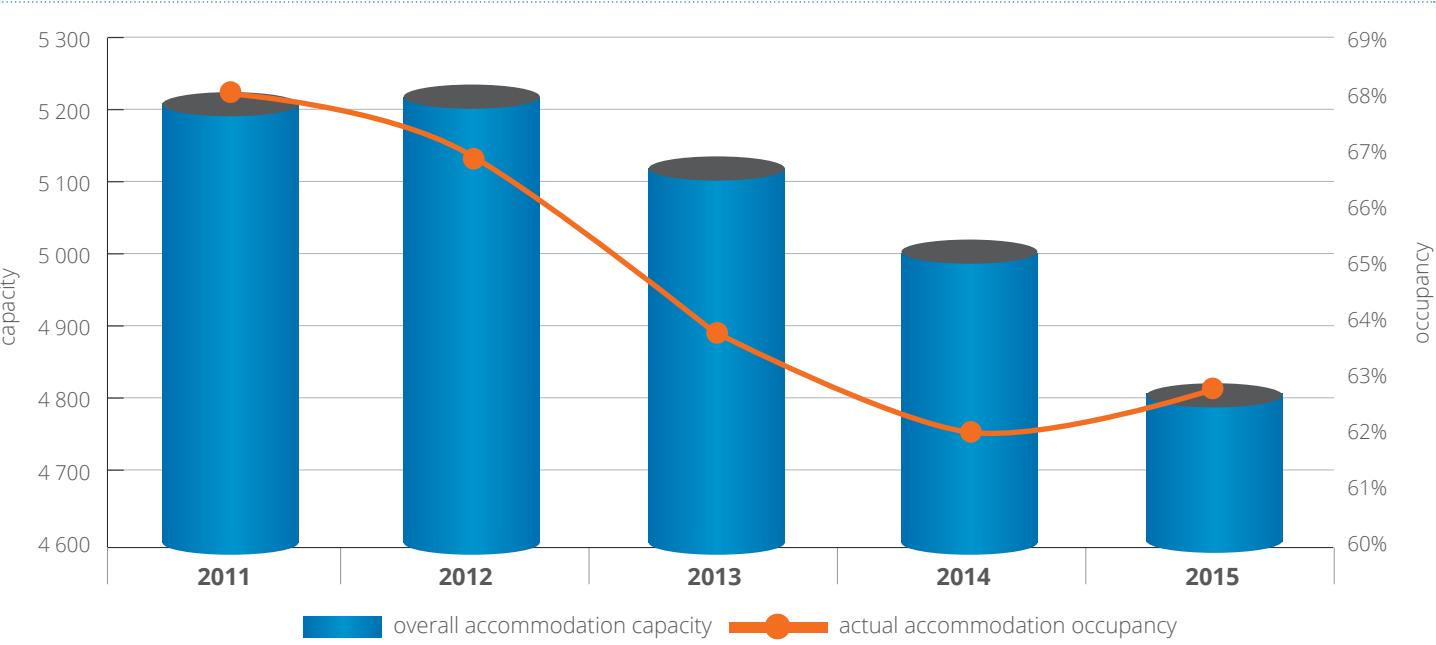
Participation of UP ADO in important events in Olomouc – catering service:

- Student May Celebration 2015, Fortress of Knowledge;
- Garden Food Festival 2015; Flora Olomouc exhibition halls.

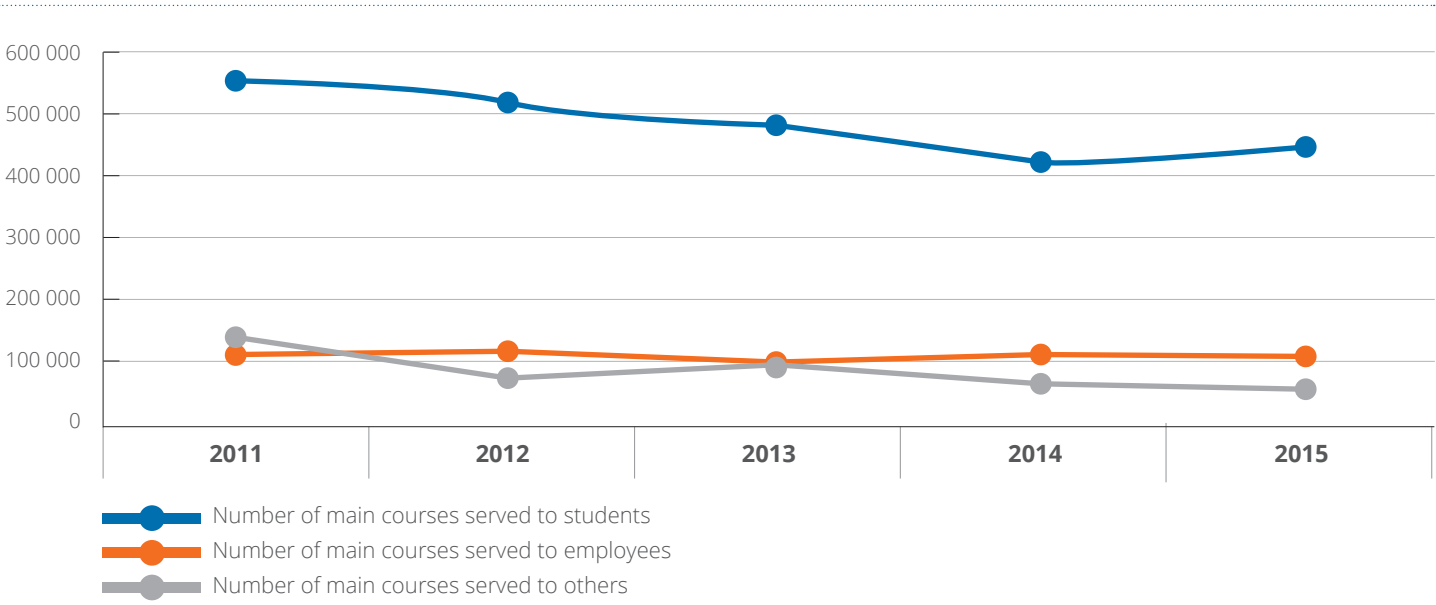
University dining and accommodation services

Total capacity at UP halls of residence	4 820
Number of accommodations at rented facilities	0
Number of requests for housing as of 31.12.2015	4 622
Number of housing requests accommodated as of 31.12.2015	4 622
Total number of accommodation days in 2015	1 115 717
Number of main courses served to students in 2015	442 769
Number of main courses served to employees in 2015	102 855
Number of main courses served to others in 2015	60 622

Used accommodation capacity at UP halls of residence



Number of meals served by category



# Construction and Restoration:

UP Changes the Face of the City



## Construction and Restoration: UP Changes the Face of the City

### University orientation system launched at the UP Faculty of Arts

A unified visual style, allowing better internal and external communication at UP, is reflected in the first installation of the UP orientation system. The premiere installation of orientation signs – information boards, guideposts, and nameplates – began in February in the buildings of the UP Faculty of Arts in Křížkovského street 14 and 12. Such installations are included in the projected or ongoing reconstructions in the streets Na Hradě, Purkrabská, Křížkovského 10, in the campus of the Faculty of Science in Holice, in the Fortress of Knowledge, and in the Geopark at Envelopa.

### Lift for those with disabilities in the Rector's Office

The university tries to make study accessible to all students without discrimination. Students with special educational needs have comfortable access to all Rector's Office premises since March. Barrier-free entry is made possible by a new lift located on the third courtyard. The reconstruction, designed by the Polách & Bravenec Atelier, took three months and cost over 3 million CZK (€120 000).

### Building of the Year: Two honorary mentions for UP

The restoration of the Ceremonial Hall and the completion of the Faculty of Education were granted honorary mentions in the Olomouc Region's competition Building of the Year 2014. The renovation of the hall cost 6 million CZK (€230 000). The author of the dominant ceiling fresco depicting the family of Darius III in front of Alexander the Great, painted in 1730, is Karel František Ferdinand Töpfer. The reconstruction revealed other frescos

on the walls, probably whitewashed in the nineteenth century, and included the full renovation of the floor. The completion of the Faculty of Education, at the cost of 200 million CZK (almost €7.5 million), was also awarded. The completion includes a modern auditorium with 275 seats, equipped with projectors and a simultaneous interpreting system. Another interesting technical innovation is the data centre, ensuring sufficient computing performance and storage capacity for research and educational purposes.

### University shop opened

In mid-April Palacký University opened its new information centre and shop UPoint in the House of the Black Dog on Olomouc's Upper Square. The first customers entered the new premises with the tones of "Heartbeats" by José Gonzalez. The shop offers a number of designer fashion collections and souvenirs, including the unique UniWearCity fashion collection and the design of souvenirs. The UPoint venue is, however, dedicated not only to the academic community but also to the general public, including foreign visitors.

### University popularises science in the Fortress of Knowledge

Palacký University confirms its substantial contribution to the popularisation of science in the country. A new interactive museum of science called The Fortress of Knowledge was launched on the occasion of the 50th year of the Academia Film Olomouc festival. The opening ceremony on April 16 for special guests was hosted by UP Rector Jaroslav Miller and the famous UK biologist Richard Dawkins. The architectonically and historically unique compound from the 19th century was successfully transformed thanks to the European Regional Development Fund. The Fortress of Knowledge will defend science for the general public.



## Reconstructed buildings of the Faculty of Arts: Architectural masterpieces

A top-notch educational and research facility in the former canonical houses of residence came into being thanks to a €4 million grant. The ceremonial opening of the buildings nos. 12 and 14 on Křížkovského street took place on May 20. The quality of study and science and research results will now be supported with new facilities, such as a laboratory of psycholinguistics and lexicostatistics with unique technological equipment, the first centre for experimental political studies in Central Europe, an interpreting lab, lecture rooms for translation and foreign languages, and new libraries. The reconstruction began in January 2014, took ten months, and was designed by Jiří Tomeček and Břetislav Sýkora from Ateliér A Olomouc.

## The Science and Technology Park opened its third building

New offices, rooms for businesses, and a specialised lab for development of new drugs are located in the new building block C of the UP Science and Technology Park. The construction of the complex, at almost €2 million, was a response to the increasing demand for the services of the institute that serves as a bridge between the academic and the business world, thus contributing to the economic development of the region. The Science and Technology Park motivates entrepreneurship and assists in business start-ups. Clients can also use the university expertise and equipment at a very good price.

## Transformation of the Armoury into a modern student cafe

A student bistro and a cafe as well as a counselling and community centre began to emerge in the summer months where the restaurant used to be in the UP Armoury. The new entrepreneurs want to offer cold meals, sandwiches, snacks, raw and vegetarian food, rustic baked goods, and coffee. They gained previous experience in their venues called Fishi Sushi and Fishi Café. The bistro with 60 places will become a chill-out zone with pillows and couches; even tablet computers will be available. The interiors were designed by architect Petra Gajdová. The adjoining lounge room will be used by the UP Student Career Counselling Centre.

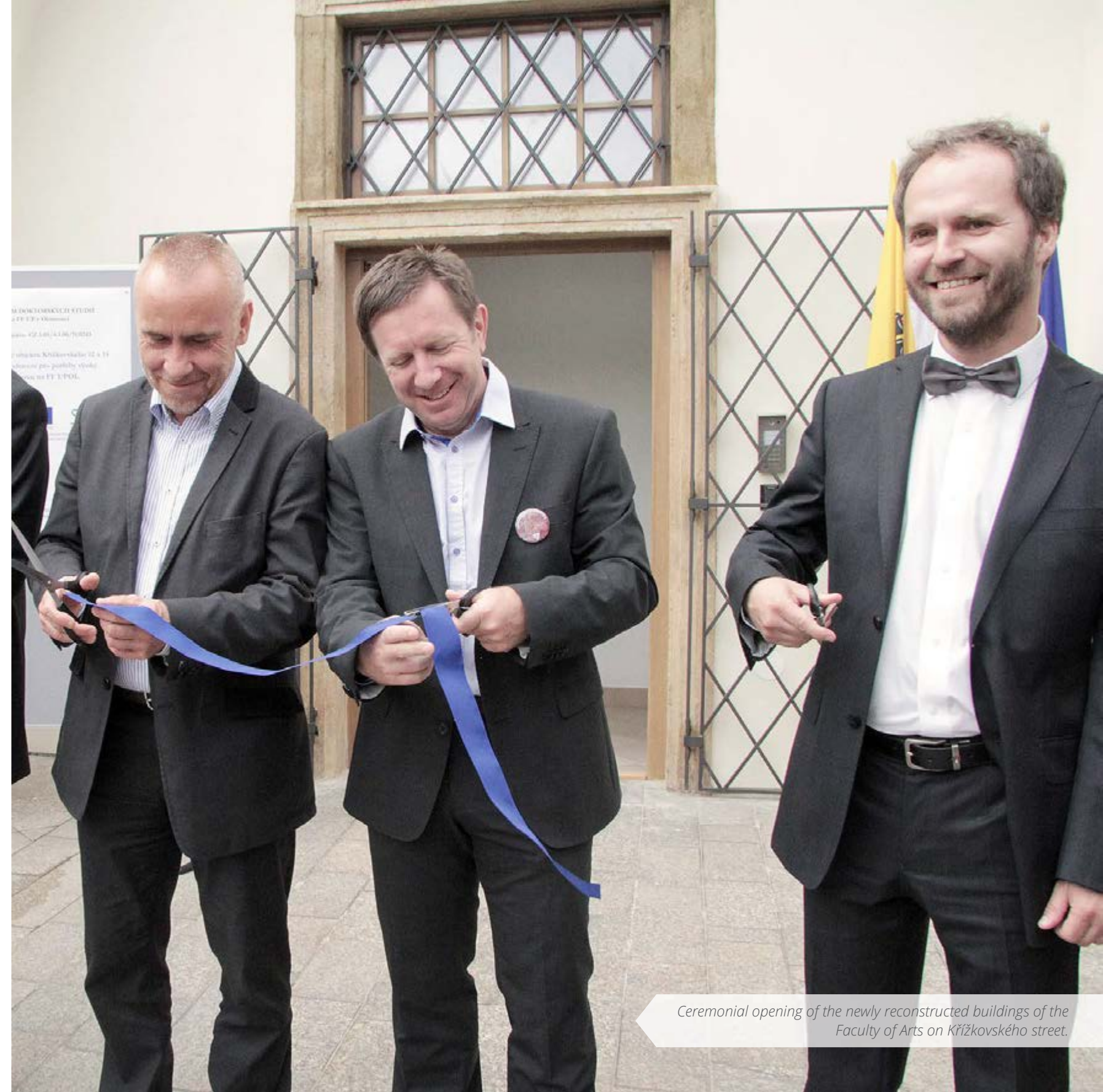
## Faculty of Education: Specialised labs and a courtyard with a stage

Students and academics at UP Faculty of Education have at their disposal modern facilities in Purkrabská street for their educational and research activities as of the 2015 winter semester. They include new laboratories, a stage in the courtyard, and rooms for therapy classes and self-study. The buildings were opened during a ceremony on September 2. Several architectural and technical barriers were removed for the sake of students and academics with special needs.

The project entitled Centre for UP Research and Education – Purkrabská was commenced in October 2011. The costs exceeded €2.7 million; the reconstruction was made by the Metrostav company.

## CenBiol project brings better facilities for education and research

Students and teachers of Biology at the Faculty of Science were equipped with new workrooms, laboratories, a herbarium, and an animal lab. This was made possible thanks to the CenBiol project – The Centre of Biological Disciplines in Olomouc-Holice, the realisation of which was concluded in June. The project is part of the complex and to a large extent already finished restoration of the Holice campus, where the construction of new facilities and the reconstruction of old ones were made possible thanks to EU funds. Support came to €3.5 million. The EU covered 85% of the costs, while the Czech Republic state budget covered 15%.



*Ceremonial opening of the newly reconstructed buildings of the Faculty of Arts on Křížkovského street.*





# International Relations

Palacký University aimed at developing its internationalisation, especially by supporting study programmes in foreign languages, increasing its involvement with foreign academics and researchers and increasing the number of foreign exchanges for its students and academics. Great attention was paid to international presentation and building upon and fulfilling inter-university contracts on cooperation. One of its main strategic goals in the year 2015 was to create study programmes in foreign languages.

## Study programmes in foreign languages (totals)

Palacký University		Bachelor's study (BA)		Master's study (MA)		Continuing Master's study (MA)		Doctoral study (PhD)	TOTAL
		FT	C/D	FT	C/D	FT	C/D		
<b>Sts Cyril and Methodius Faculty of Theology</b>		0	0	0	0	0	0	1	1
Groups of accredited study programmes	CBDE								
Social Sciences, disciplines and services	61,67, 71-73	0	0	0	0	0	0	1	1
<b>Faculty of Medicine and Dentistry</b>		0	0	2	0	0	0	2	4
Groups of accredited study programmes	CBDE								
Health Sciences, Medicine and Pharmacology disciplines	51-53	0	0	2	0	0	0	2	4
<b>Faculty of Arts</b>		0	0	0	0	2	0	1	3
Groups of accredited study programmes	CBDE								
Social Sciences, disciplines and services	61,67, 71-73	0	0	0	0	2	0	1	3
<b>Faculty of Law</b>		0	0	0	0	0	0	2	2
Groups of accredited study programmes	CBDE								
Law and Administration	68	0	0	0	0	0	0	2	2
<b>Faculty of Science</b>		0	0	0	0	1	0	1	2
Groups of accredited study programmes	CBDE								
Natural Sciences and disciplines	11-18	0	0	0	0	1	0	1	2
<b>Faculty of Education</b>		0	0	0	0	0	0	5	5
Groups of accredited study programmes	CBDE								
Education, Teacher Training and Social Care	74,75	0	0	0	0	0	0	5	5
<b>Faculty of Physical Culture</b>		0	0	0	0	0	0	1	1
Groups of accredited study programmes	CBDE								
Education, Teacher Training and Social Care	74,75	0	0	0	0	0	0	1	1
<b>TOTAL</b>		<b>0</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>13</b>	<b>18</b>

Classification of Basic Disciplines in Education (CBDE), Full-time / Combined / Distance (FT/C/D )



## Contractual agreements with partner universities

In 2015 the university concluded contractual agreements with 14 new partner universities in 8 countries. The majority of contracts include exchanges of students and employees; the university sought to intensify cooperation with contractual partners especially in the area of mutual educational and research projects. In 2015 Palacký University took part in international university fairs in Indonesia. Within the auspices of the project Study in the Czech Republic, it took part in the NAFSA US Higher Education Partnership Fair in the USA, and the European Association of International Education fair.

## The Confucius Institute

UP's Confucius Institute expanded its activities in 2015. It offered courses in Chinese to the general public, students, and university employees. It continued to teach Chinese at middle schools in the Olomouc, Moravian-Silesian, and Zlín Regions, and at universities in Prague and Zlín. The Institute conducted YCT, HSK and HSKK international tests in Chinese proficiency. In 2015 it began an experimental programme of teaching Chinese to children in the 5th grade at Olomouc grammar schools. It expanded its activities in the academic environment, where it helped establish contacts with universities in China. It also expanded its activities at its branch in Prague.

## International educational programmes and mobilities

The most significant programme of international cooperation and instrument supporting mobilities in 2015 was the Erasmus+ programme. In 2015 UP was awarded 13 projects for cooperating with universities in 12 mostly non-European countries. Thanks to these projects, in the academic year 2016/2017 UP should have 129 mobilities of students and employees. This number of approved projects and mobilities places UP among the most successful universities in the Czech Republic. In 2015, other mobilities took place in two Erasmus Mundus Action 2 pro-

jects – EURICA, for cooperation with countries from Central and South America; and the EUSA\_ID, for cooperation with the Republic of South Africa. Two students in the EURICA project continued their studies at UP and another two began their studies in 2015. In the EUSA\_ID project, three students from the Republic of South Africa continued their studies and another four began their studies. Three UP students received scholarships for study stays in Latin America within the EURICA project.

Twelve CEEPUS (Central European Exchange Programme for University Studies) networks were in operation at UP in 2015; 6 at the UP Faculty of Arts, 1 at the Sts Cyril and Methodius Faculty of Theology, 2 at the Faculty of Education, and 3 at the Faculty of Science. The Faculty of Education joined with the Faculty of Science in the network Teaching and Learning Mathematics and Informatics.

## Student and academic mobilities by country

The programme most used by students and academics for mobilities is the Erasmus+ programme. Within Erasmus+, 992 UP students studied abroad, mostly in Germany, Spain, and France. One hundred and eighty-three students took advantage of work placements, thanks to cooperation with OK4EU mostly in Belgium, but also in Great Britain, and Spain. UP accepted 436 students, mostly from Poland, Slovakia, and Spain. Six hundred and eighty-nine academics took part in teaching stays at partner institutions, mostly in Slovakia, Poland, and Spain. Thirteen academics, scientists, and administrators took part in training at partner universities. University students and academics from the majority of faculties also took advantage of projects within the auspices of the UP Institutional Development Plan and the European Social Fund. And 2015 marked the 21st year of the Merrill Programme, thanks to which 8 students spent one year studying abroad in the USA.

At the same time the Confucius Institute offered students in the Czech Republic who passed the international HSK and HSKK exams the possibility of a semester or a year to study abroad in China. Eight students from the Czech Republic took advantage of this programme, three of whom were from UP.

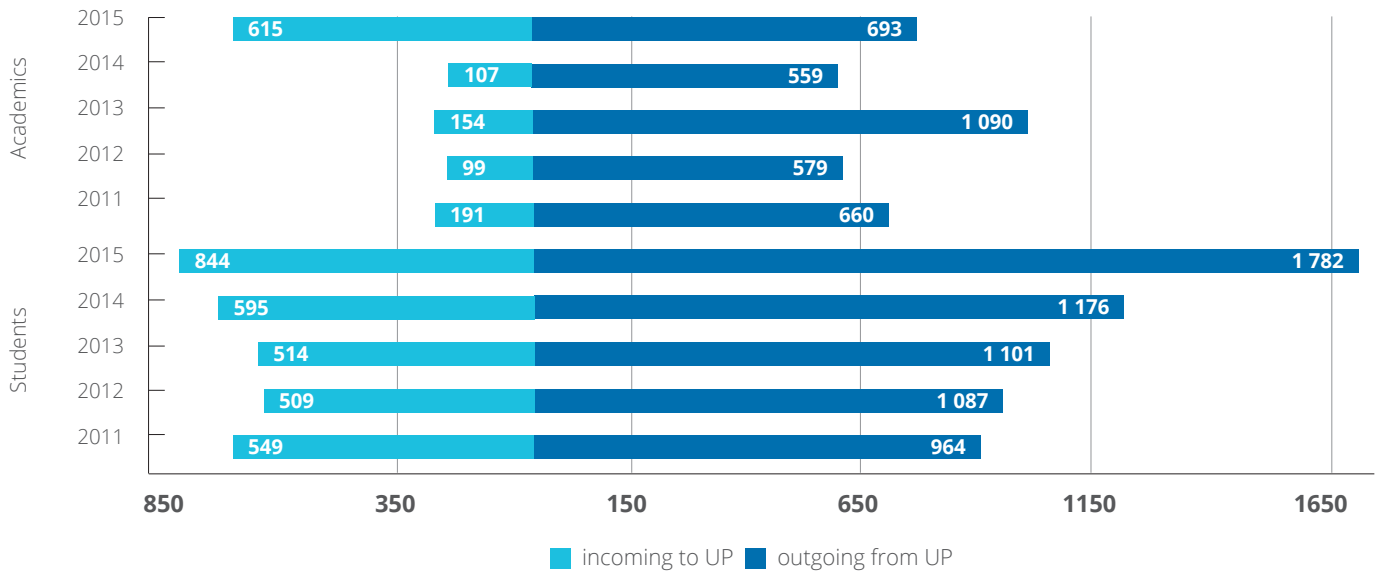
## Involvement of the university in international education programmes

Palacký University	EU programmes for international education and training										TOTAL
	Erasmus	Comenius	Leonardo	Monnet	Mundus	Others	Ceepus	Aktion	MEVS	Programmes	
Number of projects	28	1	2	1	8		4	1	2	14	61
Number of outgoing students	1391					129	33	6	94	229	1882
Number of incoming students	599				21	80	14		1	212	927
Number of outgoing academics	154						7		30		191
Number of incoming academics	22				1		2		21	14	60
Number of other outgoing staff	33										33
Number of other incoming professionals	8										8
Grants in thousands of CZK	33 934					300	150	120	18 350	2 750	55 604

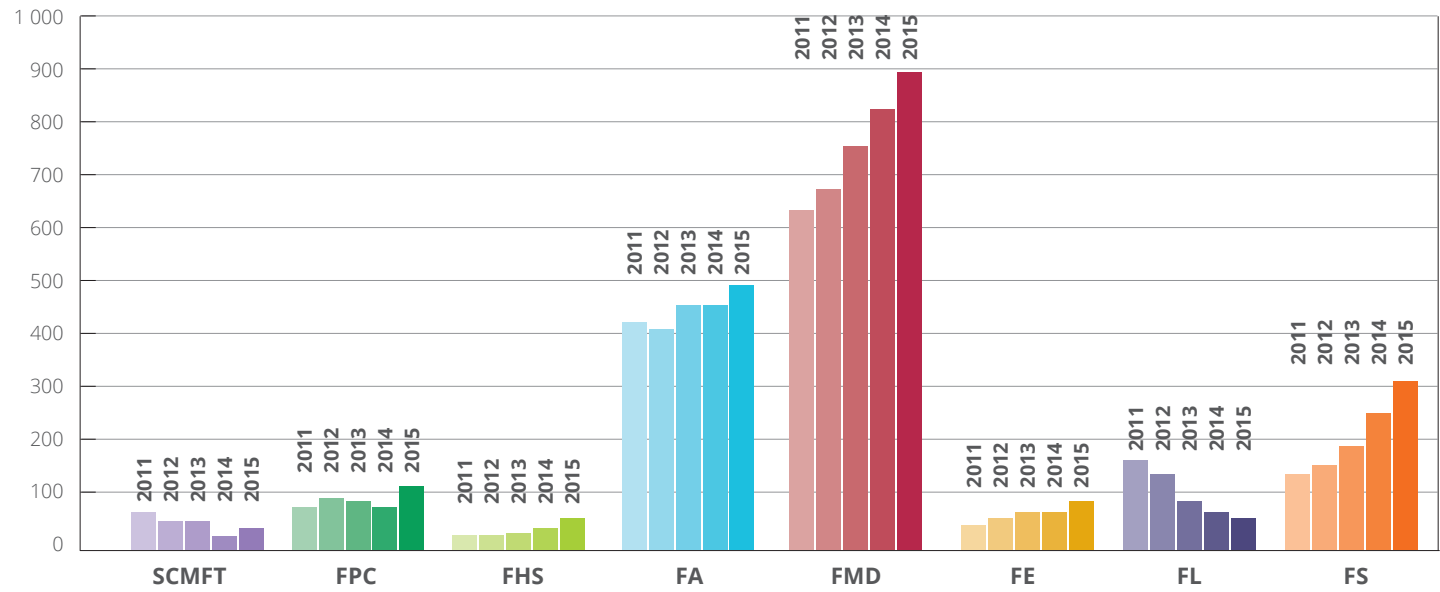
## Involvement of the university in international research and development programmes

Palacký University	Seventh Framework Programme of the European Commission		TOTAL
	TOTAL	Others	
Number of projects	3	6	9
Number of outgoing students	37	2	39
Number of incoming students		2	2
Number of outgoing academics	3	2	5
Number of incoming academics		2	2
Grants in thousands of CZK	800	120	920

International mobility of students and academic workers

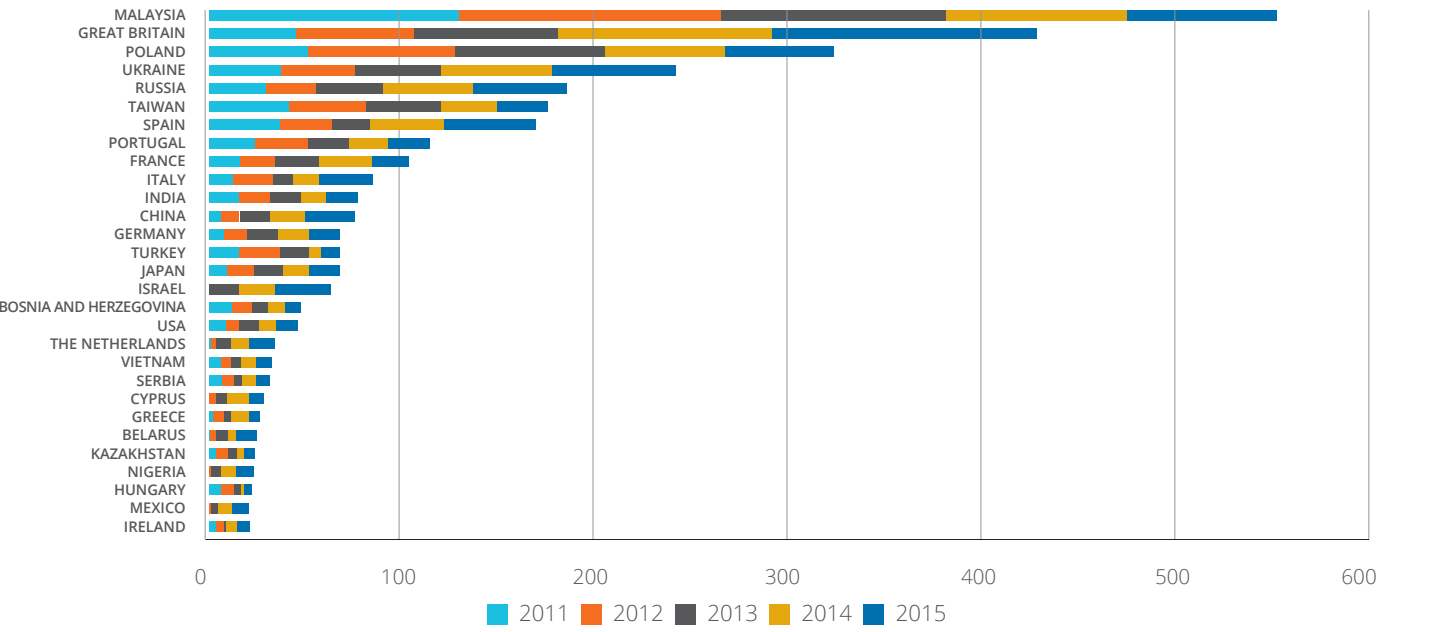


Number of international students

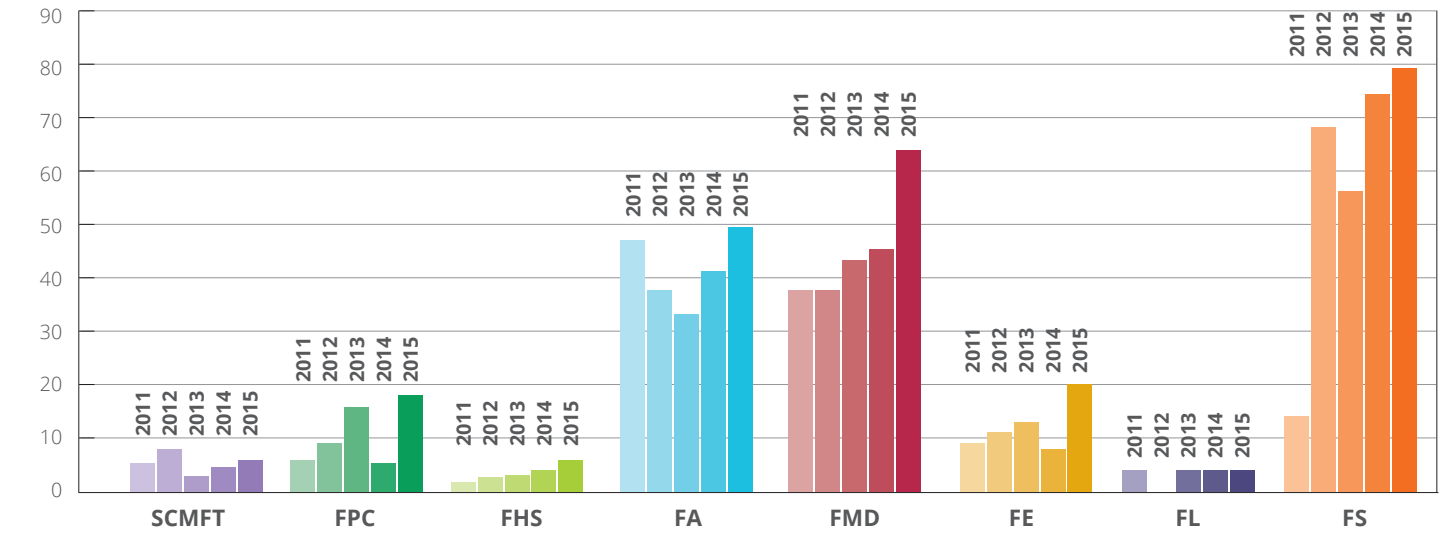


Sts Cyril and Methodius Faculty of Theology (SCMFT), Faculty of Medicine and Dentistry (FMD), Faculty of Arts (FA), Faculty of Science (FS), Faculty of Education (FE), Faculty of Physical Culture (FPC), Faculty of Law (FL), Faculty of Health Sciences (FHS)

Number of foreign students from countries with at least 20 students in total in the monitored period (except for Slovakia, with approx. 1000 students annually)



Number of foreign academics



Sts Cyril and Methodius Faculty of Theology (SCMFT), Faculty of Medicine and Dentistry (FMD), Faculty of Arts (FA), Faculty of Science (FS), Faculty of Education (FE), Faculty of Physical Culture (FPC), Faculty of Law (FL), Faculty of Health Sciences (FHS)





# AFO at 50

## Festival of Popular Science Films

# Academia Film Olomouc at 50 / Festival of popular science films

“It was just an amazing week with huge impact. The university mediated an extraordinary dialogue between two intellectual titans – a first in the Czech Republic. AFO at 50 reached its pinnacle, and it represents a wonderful invitation to both Olomouc and to Palacký University,” said Matěj Dostálek, Director of the UP Centre for Popularisation of Science and AFO Festival Director.

### AFO 50: A record 5800 viewers

Thanks to AFO, Olomouc was turned into a unique place, alive with the popularisation of science. The university atmosphere of Olomouc was transformed into a colourful festival melting pot, full of talks, panel discussions, and screenings of hundreds of the best Czech and foreign films with the personal attendance of the filmmakers. The 50th year of AFO, the largest European festival of popular science documentary films, brought nearly 6 000 viewers to the town. The growing prestige of this unique festival was underlined by its more than 300 Czech and foreign guests.

The greatest audience rush during the festival was for seats at the dialogue between two influential scientific personalities – the British evolutionary biologist Richard Dawkins and the American theoretical physicist Lawrence M. Krauss. Their intellectual discussion was held within the auspices of a touring debate project by Arizona State University entitled Origins Dialogue, which took place in the Czech Republic (indeed, in the whole of Central Europe) for the first time. Inspirational discussions on the universe, science, and its applications in terrestrial life packed the Metropol cinema to the bursting point, attracting thousands of fans.

### Prize-winning films and awards

In the competition section of the festival, there were 530 entries from all over the world, of which 19 made it into the final

round of the International competition, 19 into the Czech Films competition, and 16 into the Short Films competition. At the AFO closing ceremonies with the charismatic Czech actor Tomáš Hanák as emcee, 7 statuettes were awarded to the winners.

The RWE Award for Best Czech Science Documentary Film was given to director Tomáš Kudrna's Zatajené dopisy [Suppressed Letters], about a controversial social experiment to resolve the Romany question.

The Best International Science Documentary Film award was given to the British film about the origin and development of logic, director Catherine Gale's The Joy of Logic (2013).

The Audience Award was given to the Mike Brownlow's humorous and educational film Tiny Giants 3D (Great Britain, 2014), a visually thrilling probe into the life of small rodents, shot solely by miniature 3D cameras. Czech actor Jiří Lábus dubbed the film especially for AFO. The film has the potential to become a milestone in the field of popular education documentaries.

The Best Science Documentary Short Film award went to Fernando Cucchietti's Supercomputers (Spain, 2014).

The renowned evolutionary biologist and founder of “new atheism”, Richard Dawkins, took home a statuette for Outstanding Personal Contribution to the Popularization of Science; and the Outstanding Institutional Contribution to the Popularization of Science was given to the Boston (USA) Public Broadcasting Service channel WGBH for its long-running Nova series, followed by viewers in over 100 countries.





*AFO at 50 attracted nearly 6 000 visitors to Olomouc with its programme of films and events.*



# Education, Culture, Sport, and Entertainment

for Students and Olomouc Residents



## Education, Culture, Sport, and Entertainment for Students and Olomouc Residents

### Donate Blood with the Rector

On February 23, students and university employees went to the Olomouc Teaching Hospital for an event entitled Donate Blood with the Rector, part of UP Academic Days. Blood was donated by 146 volunteers, and the transfusion station obtained a total of 69 litres of blood. The activity was most attended by students from the Faculties of Physical Culture and Education.

### Rector's Prize for quality of work

More than 60 students and academics received Rector's Prizes for their academic, artistic, and athletic activities in the year 2014. The student Rector's Prizes and Certificate of Merit for faculty publications were awarded on the occasion of the 69th anniversary of the re-establishment of Palacký University after WW2. The number of student theses and nominations for athletic awards surpassed those of previous years. The commission decided to award 24 student authors and 11 best athletes. The Certificate of Merit for publications in the years 2013 and 2014 was given to 31 authors in the fields of Natural Sciences, Medicine, the Humanities and Social Sciences. The awards ceremony, which is one of the traditional high points of the Academic Days, at the same time paid honour to the event of February 21, 1946, when the law on re-establishment of Olomouc's university was approved.

### Experts discussed "Good Cities"

In April, two travelling exhibitions under the title "The Good City" were brought to the Czech Republic by the Embassy of Denmark. They showed what an inseparable element the bicycle is to the life style, culture, and social life of every Dane.

Two hundred representatives from Czech cities and towns, state institutions, architects, and urban planners came to UP for a conference of the same name. The project initiated discussions on the quality of life in Czech cities, on a new outlook at city mobility, on public space, and transportation.

### Seven concerts at the 7th Annual Music Olomouc festival

At the seven concerts of the 7th annual Music Olomouc festival, over 40 contemporary compositions were performed; six of which were world premieres. In addition to Czech and foreign ensembles the programme also offered an opening piano recital by the Olomouc pianist and composer Marek Kepřt, enriched by a light show. The pinnacle of the festival was the performance by the top Austrian Österreichisches Ensemble für Neue Musik.

Music Olomouc is a multi-style, multi-genre festival open to the wide spectrum of contemporary music, organised by the students of the Department of Musicology at the UP Faculty of Arts and members of the Music Olomouc association.

### UP supported cycling

Palacký University continued to support cycling as a means of active mobility. During April and May, in front of all the faculty buildings there were bicycle pumps available to all who needed them, as well as bicycle inner tube repair kits and basic sets of bike tools at the porters' lodges. And, as in the year previous, the university supported registration into the bike sharing project Rekola.



## UP gets the ball rolling for Sports Day

The Rector gave students and academics May 13 off in order for them to stretch their legs, with the Academic Sport Centre offering fifty physical activities. Rector Jaroslav Miller went on a 50 km roundtrip cycling tour with two dozen people to a nearby peak. The Jiří Hronek Memorial Run offered runners distances from 5 km to a marathon – 80 runners took part, 11 completed the marathon. The Faculty of Arts organised its traditional Dean's Cup in football: the historians beat out the journalists and political scientists.

## Beer soup wins the student prize at the Garden Food Festival

Seventy food stands took part in the May Garden Food Festival in Smetana Park in Olomouc. The Czech chef elite turned up for the gourmet picnic, including such culinary stars as Zdeněk Pohlreich and Roman Paulus. And UP Dining showed its stuff as well, serving 1400 portions of carrot crème soup, venison and beef goulash inside a loaf of home-made bread, and "student" spätzle with smoked meat and cabbage. The student competition for best soup was won by Barbora Štréglová, who impressed the jury with her beer soup. Second and third prize went to Barbora Adamcová for her red lentil soup and Stanislav Jakeš for his Miso Shiru.

## UP cooperates in ensuring safety for pedestrians and cyclists

In the year 2013, 7600 cyclists and pedestrians died on EU roads. The Czech Republic has long been one of the countries with the highest per capita deaths of pedestrians and cyclists. Traffic communications psychologists under the leadership of experts from Palacký University road-tested the factors which contribute to the causes of accidents between pedestrians and drivers, especially at cross-walks.

## Athletes with intellectual disabilities proved their might

At the end of June, athletes with intellectual disabilities came to prove their might at Sports Games of the Czech Special Olym-

pics Movement. Students of the Faculty of Physical Culture organised competitions in bocce, adapted sports, gymnastics and children's disciplines. The association's mission is to open sport to as many people with intellectual or combined disabilities as possible, to acquaint the greater public with sports for people with disabilities, and to highlight quality performances combined with the joy of movement in the spirit of fair play.

## University in blue shadows: Filmmakers descend upon university premises

A roughly fifty-member crew from Czech Television came to Palacký University and its environs to shoot the four-part detective story Blue Shadows (Modré stíny), the second season of the Olomouc-based series Detectives from the Holy Trinity. The author of the book upon which it is based, Dr Michal Sýkora of the Department of Theatre and Film Studies, delved into corruption in a university setting for his story. The crew, led by director Viktor Tauš, began filming in Olomouc on June 24. They transformed the Ceremonial Hall of the Rector's Office into a film set, along with the atmospheric Olomouc streets.

## UP hosted Czech Academic Games

University athletes tested their might in competitions at the 14th annual Czech Academic Games in Olomouc. Fourteen hundred university students in 22 sports competed for the gold – 200 of which represented the host, Palacký University. The games officially opened the ceremonial meeting of representatives of universities taking part, the Czech Association of University Athletics and the Olomouc Region, which took place on September 7 in the Corpus Christi Chapel. The Czech Academic Games, which are the biggest university athletic event in the country, returned to Olomouc after a decade.

## Long Live the King of May... and the narwhal!

The fifth year of the May Student Celebrations offered five days and five stages of cultural and sporting events, and not just for university students. The five days of the fifth year included a prank headed with a narwhal – the fifth most endangered species. And the number five was also connected to the new King of May – the



*The Czech Television crew shot the detective serial Blue Shadows on the university premises.*



canoeist Richard Hála – who took his sceptre on the 5th of May. He was crowned by the previous king, Jaromír Švejdík from the band Priessnitz. Afterward the coronal procession continued to the Crown Fortress, where the masquerade contest began to the music of the group Come and Play. The contest was judged by the kings and by the chair of the Academic Senate, Jiří Langer. May Student Celebration revellers saw a demonstration of Irish dancing, played a match to support FIFA's Football for the Planet programme, took part in a picnic with foreign students, attended exhibitions on various themes, and watched the French film comedy Serial (Bad) Weddings. May Student Celebrations were staffed by a group of 60 volunteers and the entire tab, CZK 400 thousand (€15 000), was picked up jointly by the university, the President of the Olomouc Region, and the Olomouc Town Hall.

## Science and research fair “illuminates” the fortress and the Faculty of Science

The science and research fair which took place at the Fortress of Knowledge and the Faculty of Science in June contained 80 booths. The fair was inspired by the International Year of Light, therefore its motto was We'll Make It Clear to You. Visitors expressed their greatest interest in the make-up art of moulage, a presentation on virtual reality, chilli pepper growers, and the bubbles made by students from the Jakub Škoda Gymnasium. At the Faculty of Science, pupils and pre-schoolers could try out secret writing, solve crossword puzzles for alchemists, mine minerals, recognise rocks and plants, and solve various quizzes and riddles. The botanists prepared a stand where visitors could get acquainted with how to grow mushrooms.

## Camp at the Fortress of Knowledge attracts 200 science fans

Eyes, ears, nose and hands were the main investigative instruments for the very young scientists who attended the Summer Science Camp in August at the Fortress of Knowledge. Thirty children, aged 8 to 12, set up camp in the interactive museum, where a special programme, called On the Wave of the Senses, acquainted them with sensory perception and the life of those with disabilities. The idea was to show the children what it is like when a person cannot see or cannot hear and which senses are used to compensate. This was the first time the summer science camp was held in the inspira-

tional environment of the museum – it built upon the previous years' popular summer camp at the Faculty of Science.

## Children's University matriculation at the Faculty of Education

In September, the Children's University started graduation ceremonies in the Assembly Hall of the Faculty of Education. For the first time, its “semester” also took place in the Fortress of Knowledge science museum. Its rich programme added a new feature: learning about the culture and language of Spain. Children learned about Spain by listening to music, by taking part in computer quizzes and through other digital materials. The Children's University is for kids aged 8 to 12 who are curious and eager to learn about the most diverse scientific subjects at Palacký University. It is made up of ten free interactive lectures, and graduates receive diplomas.

## Park It! project events attract 10 000 people

Film showings, dances, charity events and Student May Celebrations – the Park It! initiative for revitalising Olomouc parks was involved in all of these. This two-year project attracted thousands of people to Olomouc's parks. There were ten film screenings in the parks, the last of which took place on September 17 in Smetana Park, the French film Samba about illegal Senegalese immigrants in Paris. The programme is sponsored by UP, the City of Olomouc, and the Flora Olomouc exhibition halls. Its goal is to revitalise the parks and public spaces through cultural, athletic, and educational events.

## UP joins European Heritage Days

UP added eight visiting sites to the European Heritage Days programme. Visitors in mid-September were thus able to take guided tours of classrooms, labs and historic rooms, take part in contests and view exhibitions. Several faculties were open to the public, as well as the UP Library and Convictorium. Crowds of visitors were able to see otherwise inaccessible rooms, such as the Rector's Office. The Fortress of Knowledge and the Park It! programme joined European Heritage Days for the first time. Visitors to the Fortress of Knowledge were met by guides in period costumes and were acquainted with the history of the town fortifications and armoury in the form of interactive theatre.

## UP prepared humanitarian aid plan for refugees

At the beginning of September, the university prepared a team of experts to make use of state and public administration powers, on the level of Caritas or other non-profit organisations. The university offered help for example in the form of social work, psychological counselling, interpreting, legal services, and/or lessons in Czech. Students were also involved, with dozens volunteering. UP also took up a collection of toys for children and games for adults.

## Crowds of curious visitors attend Night of the Scientists

Studious visitors again took the September Night of the Scientists seriously. The Fortress of Knowledge and the faculties taking part with information and entertainment were filled to bursting with thousands of children and adults from Olomouc and from all over. They enjoyed tours, experiments, optical instruments, games, quizzes, a bat's return to the wild – or glimpsed into history, seeing how Olomouc citizens suffered illnesses in the 18th century. The keyword linking activities at all the faculties was light. The idea behind Night of the Scientists is to popularise science and technology. In the previous year it took place in 40 places in the Czech Republic, with nearly 35 thousand visitors.

## Vašínová and Schuster win cross-country races

In October, UP had new champions in cross-country running. Petra Vašínová from the Faculty of Physical Culture won first place in the women's race, while Marek Schuster of the Faculty of Science dominated the men. Vašínová's time in the three-kilometre run by the athletic stadium and Bezruč Park was 11:49. Schuster's ran his nearly 5 km run in 14:14 minutes. The champions received medals, certificates, and prize money. There were over 200 participants: 129 men and 72 women.

## Project E-Safety: Best in the country

Educational activities for parents and children aimed at safe use of the Internet, resolving problems of cyber-bullying on social networks and providing on-line counselling – these were the most

important activities of Palacký University teachers in the E-Safety project. The “gold” medal they won in October in the national round of the prestigious competition 2015 European Crime Prevention Award is testimony to the importance of their work and their outstanding results. The Czech Republic will present the E-Safety project in Luxembourg.

## Fortress of Knowledge invited viewers to the era of socialism

The Fortress of Knowledge museum prepared a popular-science project The Autumn of Communism, which acquainted the younger generation for the most part with the everyday “grey period” of the Czechoslovak Socialist Republic in the years 1960–1990. Part of the October project was an exhibition of socialist toys, speeches, films, and the possibility of experiencing military training. The Olomouc Museum of Modern Art also took part in the project, opening an exhibition of Czechoslovak and Polish design from the 1960s with the title Things Are Moving Forward Slowly.

## UP supports the homeless

For the third time the Faculty of Arts took part in the charity event Sleep Out. Interested members of the public could sleep in a tent or in the open. Those who slept the night out received a certificate. The event included performances by the O.L.I.V.Y. improv group, the Úlet theatre group, concerts by Ghost of You and Kitchen, screening of the Czech film Greedy Tiffany, an art workshop, and a talk on homelessness. The goal of the event was to acquaint the public with the problem of homelessness and collect monies, food, and materials which could be used to support those in need.

## Students from all over the world try on diplomats' shoes

At the end of November, the prestigious international Model UN took place at Palacký University, organised by the Department of Political Science and European Studies. Nearly 300 students from all over the world tried for themselves to see how the UN deliberates, and all that goes with it. In addition to required etiquette and strictly adhering to rules of order, they also had to discuss actual world problems. In 2016 Olomouc passed the Model UN on to the university in Kobe, Japan.





*The connecting theme of Night of the Scientists, taking place at all UP faculties, was light.*





# 2015

## in the Eyes of UP Deans

# How was the year 2015 for Palacký University (...and not only for UP)?



### **Jaroslav Miller, UP Rector:**

*In the world of academia, I consider it important that in 2015, Palacký University expanded on all fronts, especially in research (a number of new discoveries) and teaching (newly accredited disciplines), but the feather in our cap was the awarding of a European Research Council grant to Prof Michal Otyepka. This is a huge accomplishment for Michal and for UP. In the non-academic world, it was the essential fact that Europe remained an island of stability in a stormy world; my hope is that Europe will remain so in 2016. The Paris Climate Change Conference had equal importance. In my personal life I experienced the joy of the birth of my niece, and she has my wishes to be born into a safe and conflict-free world.*



### **Peter Tavel, Dean of the Sts Cyril and Methodius Faculty of Theology:**

*Leaving aside for a moment our certification for the DIPEX (Personal Experiences of Health and Illness) methodology (the last priest in our lands who was granted a patent was Jozef Murgaš in 1904, for wireless telegraphy!), for me the most important event of 2015 was that despite my crazy mishaps in office, UP CMFT still exists. With the pen with which I sign official documents, I hereby declare that in the coming year I will not play hazard with the potential stability of our "divine faculty".*



### **Jaroslav Vomáčka, Dean of the Faculty of Health Sciences:**

*I would not characterise any event in 2015 as the most important. What I would consider as significant in the area of academics was the huge interest in studying at our departments and the largest increase in the interest of study programmes anywhere in the university. And this is against the background of a drop in demographics for university age adults. I am also pleased in the growth of measurable scientific research activities at UP FHS. And even if it is a small number in comparison with others, it still bears witness to the positive growth in the emancipation process of FHS from the UP Faculty of Medicine and Dentistry after their separation in 2008. In my personal life I would stress that the most important thing is relatively good health, without which no activities or goals could be realised.*



#### **Zbyněk Svozil, Dean of the Faculty of Physical Culture:**

*For me what was important was that in this year we were able to maintain the financial balance and stability of the entire faculty. We were successful in the re-accreditation procedure for awarding docentships and professorships in the field of Kinanthropology. UP FPC received re-accreditation in other important fields, such as Recreology, and Training and Sport. An important change in this area was receiving accreditation for the Master's programmes taught in English – Physical Activity, Active Living, and Adapted Physical Activity. FPC is the best in the country in the field of Physical Education and Sport, and this is confirmed by being voted Faculty of the Year by our students. We were able to complete the first stage of the construction of the BALUO (Bases of Application Life Utilities Olomouc) Centre and launch the construction of the connecting corridor between the test hall and the test pool. The faculty was also granted five research projects by the Grant Agency of the Czech Republic, and we continue to work on research projects with our colleagues in the USA. As far as non-academic success, I think it was the positive atmosphere at the faculty, one conducive to work.*



#### **Čestmír Serafín, Dean of the Faculty of Education:**

*I see 2015 as a year which was successful on the whole for our faculty. As Dean, I especially was pleased by our success in the re-accreditation process, when the faculty proved the quality of its study programmes and departments – guaranteed by the Accreditation Commission of the Czech Republic until the year 2021. I am proud of my fellow colleagues who have shown by their example the quality of university education of teachers and other educational and non-educational workers at the UP Faculty of Education. A great contribution to this success was the professional growth of the academic staff of the university, shown not only by completion of their doctoral studies, but especially by the extended accreditation for habilitations and inaugurations, which the faculty in 2015 was able to maintain in the field of Teacher Training. Plus steps leading to improving the internationalisation of the faculty – in the year 2015 we accredited 38 study programmes taught in foreign languages and concluded new contracts with foreign universities. In addition to our teacher training, the life of the faculty is closely connected to science, research, and publishing. For these purposes the faculty in recent years created a state-of-the-art facility – an addition to the main faculty premises on Žižka Square – from EU funding and the state budget of the Czech Republic, and within the auspices of this same programme in 2015 renovations were completed on the historic Žerotín Palace on Purkrabská Street by master restorers.*



#### **Milana Hrušáková, Dean of the Faculty of Law:**

*The greatest event of the academic year for me was without question the first habilitation accreditation in the history of the Faculty of Law. Soon after being awarded accreditation in the field of Civil Law we were able to produce a top-quality docent. In addition, our teachers were successful in being habilitated at other faculties of Law. Two are now following through in Slovakia, and others are on their way to their successful goal. In my personal life, I enjoyed the birth of my first grandchild. I had no idea what an effect that event would have on me. I lecture four-month-old Igor on children's rights any time I have a free moment: he's adorable!*



#### **Ivo Frébort, Dean of the Faculty of Science:**

*For me it was the conference Green for Good III, which took place in June at the Faculty of Science's Centre of the Region Haná in cooperation with the European Federation of Biotechnology. The conference brought the British chemist John Pickett to Olomouc, as well as a number of other world-renowned experts, allowing us again to present ourselves to the world a little more.*



#### **Milan Kolář, Dean of the Faculty of Medicine and Dentistry:**

*Personally, I do not distinguish between the academic and the non-academic worlds, and these two areas in my mind and in my practical life are very closely intertwined. For me, 2015 was the year when my first term as Dean of the Faculty of Medicine and Dentistry came to a close, and at the same time it was an important stage in my life, when I ran for the second term. The fact that I was voted Dean on 21 April 2015 for the second term – respectively, that I won the trust of the academic community of our faculty – I consider the most important event in my life during 2015. The knowledge that I could complete the work begun in the first term was for me a great compliment, an honour, and at the same time a commitment which I accepted with great humility. With all of my heart, I wish that UP FMD in 2016 will continue to prosper and that our three quality areas will be successfully joined – excellence in teaching, success in scientific research activities, and first-rate treatment and preventive medicine. At the same time, it would hearten me if all the teachers and students considered the faculty as an affair of the heart, something of which we can be proud. I am convinced that the UP FMD motto – “mente et corde” – will continue to be fulfilled to the utmost.*



#### **Jiří Lach, Dean of the Faculty of Arts:**

*For me, the most important thing was peace in the greater part of Europe.*





# Finances

## How did the university fare economically in the year 2015?

Palacký University's budget is managed as a whole. For internal reasons of accounting, monitoring, and evaluating expenses and income, it is divided into 19 parts, including the 8 faculties. Income from the year 2014 in the amount of 58 223 thousand CZK was approved by the UP Academic Senate (UP AS), and distributed into the Operating Fund (47 643 thousand CZK), the Fixed Assets Development Fund (9 586 thousand CZK), and the Awards and Subsidies Fund (994 thousand CZK).

**Profit for the year 2015 in the amount of 19 278 thousand CZK was reallocated after a meeting of the UP AS and after approval of the annual report on accounting for the year 2015 by the Czech Ministry of Education, Youth, and Sports.**

### Profit or Loss for the year 2015, in thousand CZK

Public university sectors	Income from main activities	Income from supplemental activities	TOTAL INCOME
Faculty of Health Sciences	150	0	150
Faculty of Medicine and Dentistry	-76	3 509	3 433
Faculty of Arts	2 104	1 273	3 377
Faculty of Science	782	306	1 088
Faculty of Education	4	0	4
Faculty of Physical Culture	461	-2 484	-2 023
Sts. Cyril and Methodius Faculty of Theology	0	5	5
Faculty of Law	27	0	27
Accommodation and Dining	8 479	4 457	12 936
Rectorate	0	0	0
Library	2	0	2
UP Press	266	68	334
Information Technology Centre	-203	3	-200
Armoury	2	0	2
Science and Technology Park	-203	3	-200
Academic Sport Centre	5	37	42
Project Services	1 118	0	1 118
Support Centre for Students with Special Needs	0	0	0
Central Funds	157	-974	-817
TOTAL	13 075	6 203	19 278

# Basic information about the university

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## Faculties of Palacký University Olomouc

- **STS CYRIL AND METHODIUS FACULTY OF THEOLOGY (SCMFT)**

Univerzitní 244/22, CZ-771 11 Olomouc

- **FACULTY OF MEDICINE AND DENTISTRY (FMD)**

tř. Svobody 8, CZ-771 26 Olomouc

- **FACULTY OF ARTS (FA)**

Křížkovského 511/10, CZ-771 47 Olomouc

- **FACULTY OF SCIENCE (FS)**

17. listopadu 1192/12, CZ-771 46 Olomouc

- **FACULTY OF EDUCATION (FE)**

Žižkovo nám. 5, CZ-771 40 Olomouc

- **FACULTY OF PHYSICAL CULTURE (FPC)**

tř. Míru 115, CZ-771 11 Olomouc

- **FACULTY OF LAW (FL)**

17. listopadu 8, CZ-771 11 Olomouc

- **FACULTY OF HEALTH SCIENCES (FHS)**

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