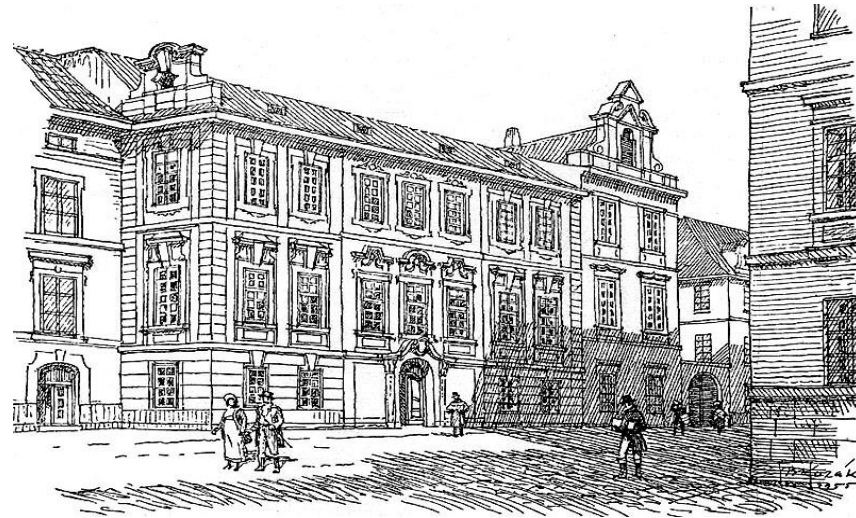




Internationalization at Czech Technical University in Prague

Petr KONVALINKA

September, 2017

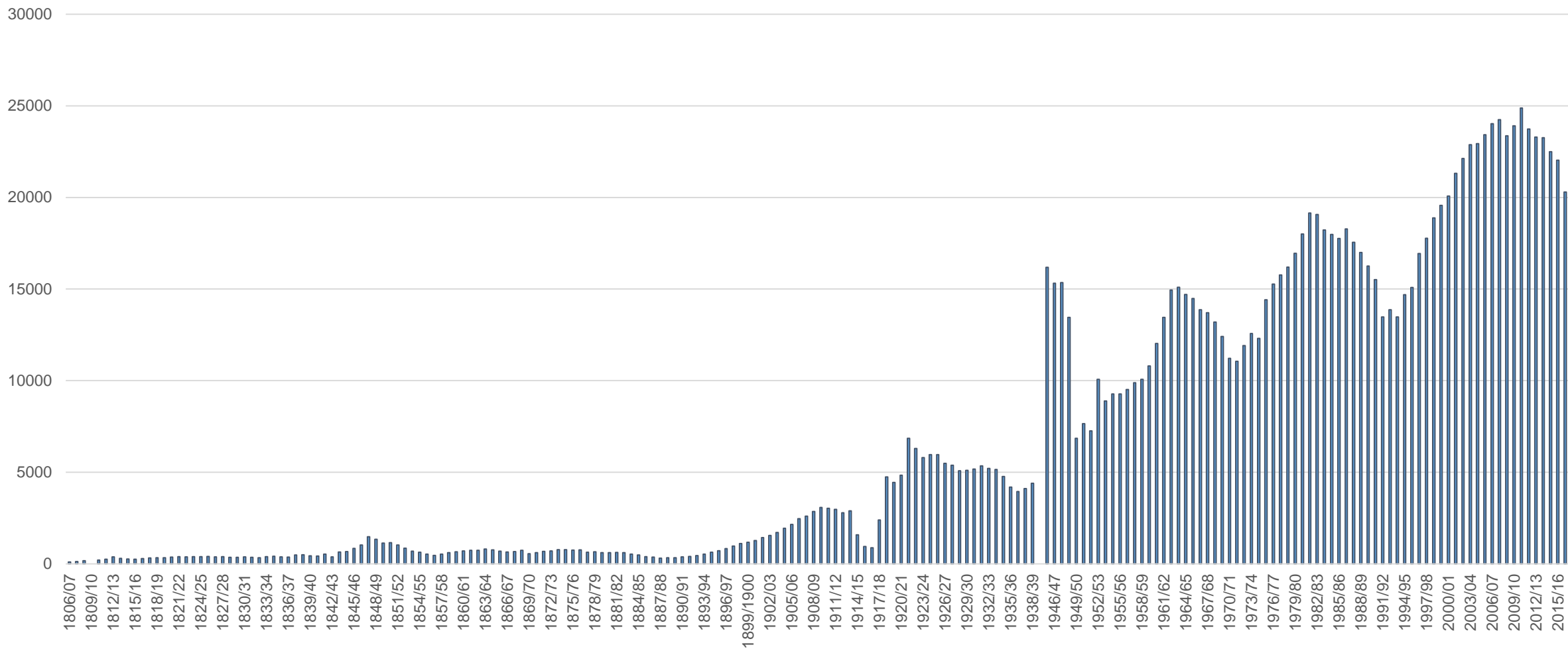


History

- 1707 Rescript of Emperor Joseph I.
- 1717 Czech General Estate School
- 1803 Prague Polytechnic
- 1879 Technical University
- 1920 Czech Technical University



Number of students 1806 - 2016





- **best ranking** technical university in the country, in 2017 QS World University Rankings **491-500 rank** (civil & structural engineering: rank 51-100, engineering & technology: rank 201, physics & astronomy: rank 151-200)
- **research university** – 2 ERC projects, and 38 Horizon 2020 projects, number of industrial cooperations
- **8 faculties** – civil engineering, mechanical engineering, electrical engineering, nuclear sciences and physics, architecture, transportation sciences, biomedical engineering, and information technologies
- **5 research and educational institutes** {Masaryk institute, Klokner institute, Institute of Effective Buildings, Czech Institute of Informatics, Robotics and Cybernetics, Institute of Physical Education and Sport}
- **176** (in Czech) and **70** (in English) **study programmes**
- **20 000+ students** Bc.+MSc.+PhD. (**3 652 international students – 18%**)
- 1 900 academic staff
- 1 500 non-academic

RESEARCH HIGHLIGHTS

most prestigious European grants to individual researchers



2 European Research Council Grants

- Artificial Intelligence for Large-Scale Computer-Assisted Reasoning in Physical and Engineering Sciences, Dr. Josef Urban, contact: jiri.vyskocil@ciirc.cvut.cz
- Evolving Language Ecosystems, prof. Jan Vitek, contact: <http://janvitek.org/> or tvrdik@fit.cvut.cz



RESEARCH HIGHLIGHTS

Horizon 2020 research & innovation grants

38 Horizon 2020 projects, an example

GasOn: Gas-Only internal combustion engines, ongoing project

http://cordis.europa.eu/project/rcn/194816_en.html

Participants:

- FIAT
- FORD-WERKE GMBH
- RENAULT SAS
- VOLKSWAGEN AG
- COMMISSARIAT A L ENERGIE ATOMIQUE ET AUX ENERGIES ALTERNATIVES
- UNIVERSITAT POLITECNICA DE VALENCIA
- CESKE VYSOKE UCENI TECHNICKE V PRAZE
- EIDGENOESSISCHE TECHNISCHE HOCHSCHULE ZÜRICH...

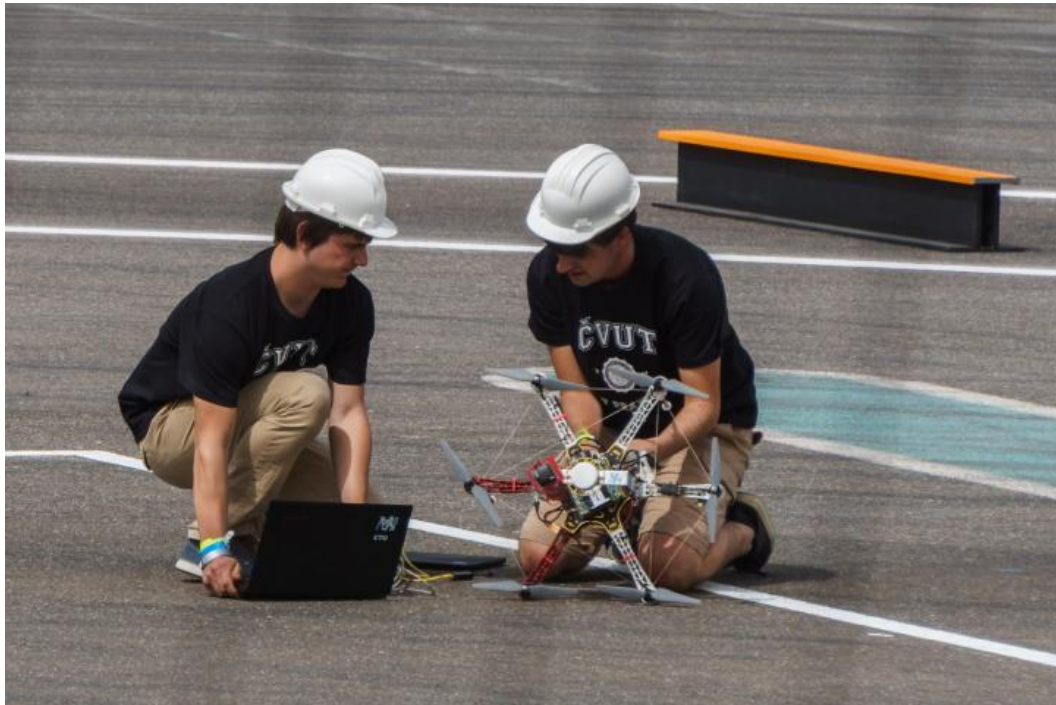


RESEARCH HIGHLIGHTS

successful results - **winnig team at the international competition**

martin.saska@fel.cvut.cz

Autonomous drones of Faculty of Electrical Engineering CTU win prestigious Mohammed Bin Zayed International Robotics Challenge in Abu Dhabi in March 2017



RESEARCH HIGHLIGHTS

successful results - **winnig team at the prestigious Microsoft Imagine Cup in Redmond on July 27th, 2017**

Students developed a baby glucometer in form of a credit card within the XGLU start-up



info@xglu.cz

<http://www.xglu.cz/>



RESEARCH HIGHLIGHTS

successful results - **European Invention Award 2016**

sedlacek@fsv.cvut.cz

A **bladeless turbine** developed by Ing. Miroslav Sedlacek promises to change how water current is transformed into electrical power, expanding application of hydropower technology to previously untapped sources, including ocean tides and small brooks.



Patenting: patent number: [EP2171260](#)

RESEARCH HIGHLIGHTS

successful results - **example of spin-off**

Unique digital cloud chamber developed and produced by undergraduate students for CERN in 2016



zbytekond@fel.cvut.cz

<https://www.nuledo.com/en/>

Currently the **Nuledo Cloud Chamber** is considered to be the most advanced device of its kind in the world, which is used for teaching of particle physics, and for demonstration and detection of ionising radiation.



INTERNATIONALIZATION

= excellence in research & education

we provide in English:

- Courses for exchange students
- Study Programmes for degree seeking students
- Double /Joint Degree programmes

we care for International collaboration, and we have partner universities in 100+ countries world wide

we perform scientific work for research grants: ERC, Horizon2020

we cooperate with industrial partners as GE Aviation, Porsche, Siemens, Skoda, etc.

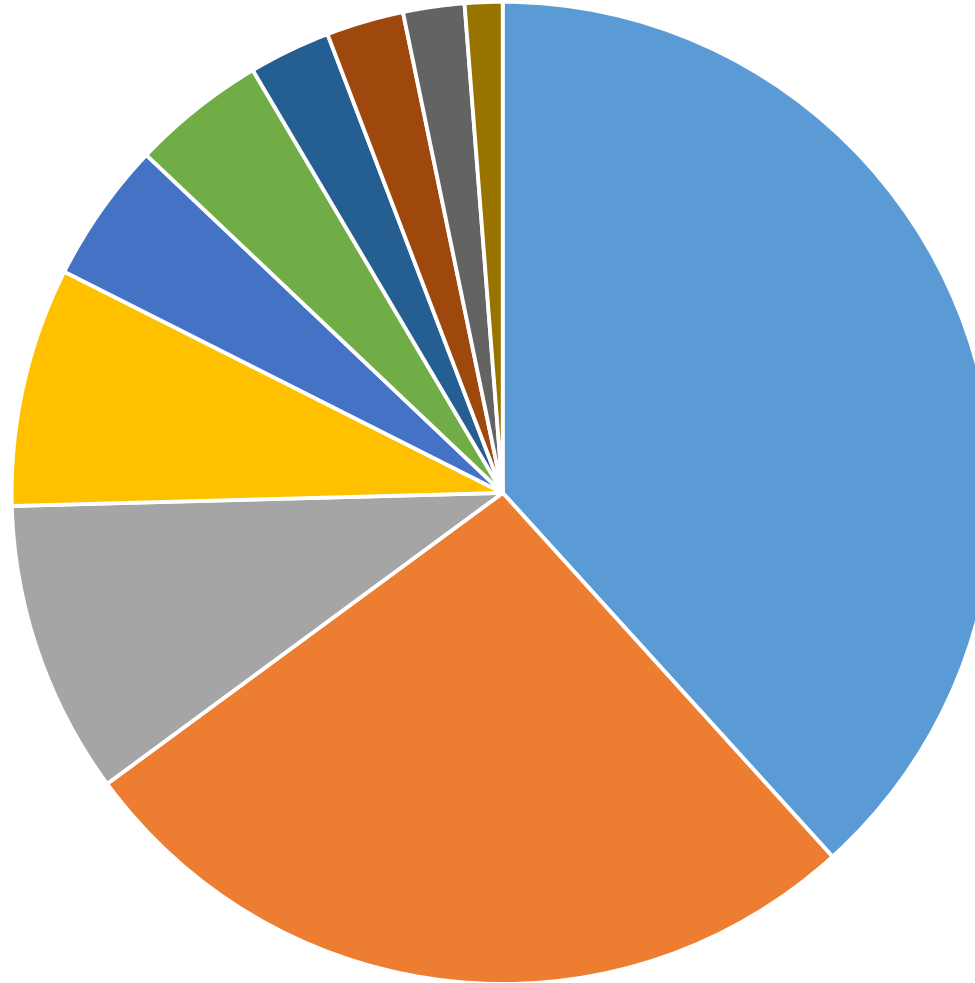
we participate actively in exchange programmes:

Erasmus +, Erasmus Mundus, Bilateral Agreements, T.I.M.E. Association, Aktion, ATHENS...



INTERNATIONALIZATION

Top 10 countries of international students at CTU studying in Autumn 2016 (they represent 75 % of all inbound students)



Slovakia	1081
Russia	752
Ukraine	273
Kazachstan	222
France	142
India	125
Belarus	76
Spain	72
Germany	57
USA	35

■ Slovakia
 ■ Russia
 ■ Ukraine
 ■ Kazachstan
 ■ Francie
 ■ India
 ■ Belarus
 ■ Spain
 ■ Germany
 ■ USA



WELCOME IN PRAGUE ANY TIME...



petr.konvalinka@cvut.cz