

**OPEN SCIENCE**  
Direct way from school to science

# Project Open Science

**PROMOTION OF RESEARCH AND DEVELOPMENT**



INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ

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## Open Science III

- **Running:** Centre of Administration and Operations of the Academy of Sciences of the Czech Republic in co-operation with the research institutes all over Czech Republic.
- **Funding:** European Social Fund; (OP Education for Competitiveness), state budget; (Czech Republic).
- **Duration:** 07/2012 – 06/2014.

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## Target groups

- Scientists, researchers, PhD students
- Secondary school students
- Secondary school teachers
- University students
- Public, parents, children ...

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## Key Activities

- Scientific internships for secondary school and university students
- Lifelong learning courses for the secondary school teachers
- Science communication courses – networking for R&D
- Talent for Czech Science (Czech EXPO-Sciences)
- Science Edutainment

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## Open Science For Young Scientists

- 120 scientific internships for secondary school students
- 25 scientific internships for university students
- Guided directly by the scientists and researchers (one-to-one)
- Running during two school years (2012–2014) in a schedule (8 hours/month)
- The public research institutions of the Academy of Sciences of the Czech Republic and at the universities all around the Czech Republic
- Fields: biology, chemistry, physics, mathematics, IT, geology, geography etc.
- Aim: Create such conditions for the young students to get them in touch with the scientists and motivate them to follow their scientific career.









ELECTRONIC  
STRUCTURE  
AND THE  
PROPERTIES  
OF SOLIDS  
Physics of the Chemical Bond  
Walter A. Harrison

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## Open Science for Teachers

- 6 Lifelong learning courses for the secondary school teachers - theory
- 6 Lifelong learning courses for the secondary school teachers - practice
- Lectured by the scientists and the researchers
- Running during two school years (2012– 2014)
- Fields: biology, chemistry, physics
- Aim: The courses are focused on inquiry based science education (IBSE) which allows the teachers to demonstrate interesting experiments and motivate students for a future scientific career in science and technology.



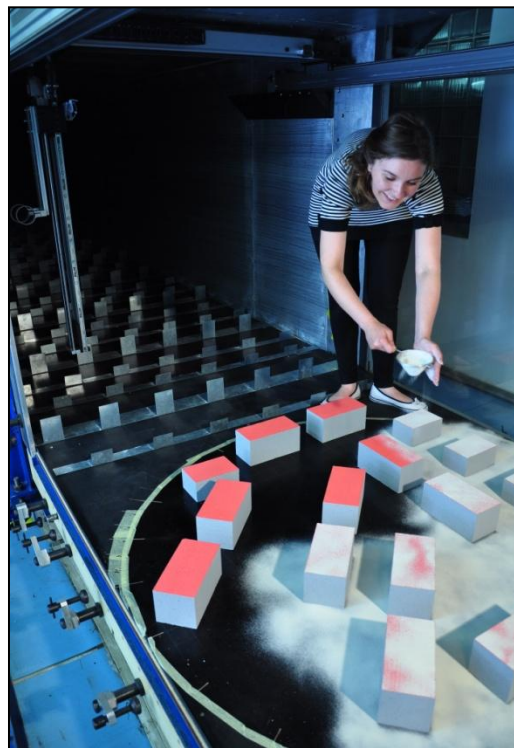
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## Open Science For Researchers

- Science communication courses for the researchers
- Networking for the R&D; regions of the Czech Republic, S&T fields
- Science communication courses for the researchers – platform for discussions and regular meetings
- Networking for the R&D; regional representation, co-operation and preparation of the scientific expo and exhibitions
- Aim: The aim of the science communication courses for the researchers is to learn how to communicate the outcomes of their scientific work and develop the art of presenting their ideas not only in the scientific community but also towards the media.

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## Talent for Czech Science

- The Czech Expo-Sciences aim at promoting scientific projects created by the secondary and university students via the expo.
- Participating in the Czech Expo-Sciences is an opportunity to represent the best scientific results of the young interns, to attract secondary school students, teachers and public, to elevate their interest in research, science and technology innovation and enhance student motivation for the scientific career.
- The best scientific results are awarded and recommended for representing in the international contests.





Dopplerovské metody měření rychlosti průtoku krve

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Přizpůsobení: Marek Vojtěch  
Ladislav Hlaváček, Jan Čížek, Jan  
Příhoda, Jan Štěpánek, Jan Čížek  
Mikuláš, 12. března 2014





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## Science Edutainment

- Science summer camp
- Public lectures
- The summer science camp for the teachers and students aims to educate as well as to amuse.
- Student and teachers are allowed to gain the latest scientific results and news and spend inspiring week with the best Czech scientists.



## Projects Aims

- to motivate the secondary school students for science, technical studies and scientific career
- to communicate science to the young generation
- to show real science and research in the Czech Republic
- to develop the science communication strategy towards the target group: secondary school students and teachers
- to establish science communication and cooperation between the secondary schools and research institutions and universities

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**Centre of Administration and Operations of The Academy of Sciences  
of the Czech Republic**

Division of External Relations, Department of Projects and Grants  
Vodičkova 40, 110 00 Prague 1, Czech Republic

**What we do?**

science communication, recruitment of the young generation to science,  
education and training, public lectures, mobility centre for incoming researchers  
(EURAXESS Czech Republic)

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**Thank you for your attention**

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