

Slovakia and CERN: Collaboration in terms of Industry and Knowledge Transfer

Thursday 15 March 2018 11:50 (10 minutes)

Abstract:

CERN is the world's largest particle physics laboratory. The cooperation with CERN is not only about fundamental research, in which has Slovakia long-term excellent performance during its 25 years long membership. There are also three other areas of cooperation, which is an important benefit for all Member States: Industry, Innovations / Knowledge Transfer and Education. The annual contribution of Slovakia to the budget of CERN may be returned to the Slovak economy in the form of purchases of supplies from the Slovak companies. There have been examples of successful Slovak companies in the past, showing the considerable potential of Slovakia, but there is still space for improvement.

CERN is also an important centre of innovation and know-how, bringing to the world amazing technologies and applications, without which our society cannot imagine life today, for instance www or different medical imaging diagnostics methods and cancer treatment, and many others.

CERN is the biggest data centre in the world, where big data are being produced, collected and stored.

One of the core missions of CERN is education, reaching to students, teachers and wide public through multitude of tools, exhibitions and programs.

About the speaker:

Barbora Bruant Gulejova holds advanced Master degree (RNDr) from Physics (specialisation in Plasma Physics) and Master in Management (both in 2004) from Comenius University in Bratislava. Afterwards (2004-2009) she did PhD in Thermonuclear Fusion at Plasma Physics Research Centre (CRPP), EPFL in Lausanne, Switzerland. Later she joined International Atomic Energy Agency (IAEA) in Vienna, where she worked for 2 years as a Scientific Editor and next 2 years she worked for an NGO in Geneva active in sustainable energy projects. In 2014 Barbora joined CERN, where she worked as a Head of community activities of HEPTEch. Her active search for suitable Slovak node resulted in TUKE joining HEPTEch since 2015. Since 2015 she worked at CERN Education, Communication and Outreach Group as a Coordinator and Development Leader of International Particle Physics Outreach Group. She is also Industrial Liaison officer (ILO), Knowledge Transfer Liaison Officer of Slovakia at CERN; and representant of Slovakia in CERN's Forum for Teachers and Students Educational Programmes.

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Session Classification: Opening session