

INTERNATIONAL CONFERENCE ON THE FUTURE OF NON-FORMAL AND FORMAL EDUCATION

12th – 13th June 2024 (Wednesday + Thursday)

**SOU elektrotechnická (Secondary vocational school of electrical engineering), Vejprnická 56, Plzeň
- Event centre – multipurpose hall and other premises**

WEDNESDAY – 12TH JUNE 2024

**9:30 – 11:00 Conference opening and participants' registration, workshop registration
COFFEE BREAK, nonformal discussions**

Workshops with talented and gifted students in the vestibule in the fields of technology, electrical engineering, robotics, programming, graphics, aesthetics, creative activities, natural sciences.

Host – RNDr. Pavel Vlach, director of Gymnázium a Střední odborná škola, Rokycany

Anežka Tetřevová, representative of the Students' parliament of the Pilsen region

11:00 – 11:30 OFFICIAL LAUNCH OF THE CONFERENCE

11:00 – 11:15

Welcome speeches - regional office representatives

- Rudolf Špoták, governor of the Pilsen region
- Ing. Vladimír Kroc, deputy governor for education and sports, Pilsen region
- JUDr. Jaroslava Havlíčková, MBA., head of the department for education, youth and sports, Pilsen region

11:15 – 11:30

Welcome speeches - RADOVÁNEK leisure time centre and NPI National pedagogical institute

How informal and non-formal education can be beneficial in the context of formal education.

- Bc. Eva Tischlerová, director of RADOVÁNEK leisure time centre
- RNDr. Kamil Ubr, director of the general education curriculum department, NPI

11:30 – 12:30 The future in education, development and changes in the attitude and thinking of teachers and pupils, incl. their involvement

- Discussion with pupils of the Student Parliament of the Pilsen Region during the plenary session
- Presentation of outcomes from the International Parliamentary Exchange of Experience 2023

12:30 – 13:00 LUNCH**13:00 – 15:00 WORKSHOPS****WORKSHOP I.****13:00 – 14:00 Development of talent support in mathematics in the form of games (Event centre – Main hall)**

Mgr. Alena Vávrová – teacher of mathematics and physics, Karel Čapek Elementary school, Praha

Alena Vávrová is a promoter of teaching mathematics in the form of games. She is among the finalists of the Global Teacher Prize Czech Republic, she is the recipient of the Pedagogical Achievement of the Year award from the Mensa company for her long-term efforts to improve the quality of school work with gifted children and the introduction of new non-traditional teaching methods. She teaches NPI programs focused on gifted work and is a constant inspiration for other educators. She incorporates game elements into regular teaching, and conducts seminars on this topic.

Come and see for yourself that the game belongs to the teaching of mathematics in the upper level of elementary school and that this form of teaching can be useful not only for your students. For children, play is a normal part of life and most of the time they do not even realize what they have learned while playing. A unique educational program that aims to support and make the teaching of mathematics more attractive, to develop the skills of teaching staff and the potential of each student in this subject. Do you know (and can use during class) Blokus, Ubongo, Abaku, Sudoku, Dragon treasure or Indian mosaic? In order to have an authentic view of the game in teaching mathematics, the lecturers will be students themselves.

WORKSHOP II.

14:00 – 15:00 **Chemistry game and education** (outdoor premises and laboratories)

Bc. Jakub Štěpánek - graduate of the University of Chemistry and Technology in Prague, science popularizer

Jakub Štěpánek has been involved in the popularization of physics and chemistry since his studies at the gymnasium, when, among other things, he started working at the Pilsen Science Centre as a professional lecturer and showman at the age of seventeen. Currently, he aims at the development of gifted and talented students, with a focus on chemistry both in extracurricular activities and camps (for example, in the SVČ RADOVÁNEK) and the professional camp of the Běstvinka Chemistry Olympiad. At the same time, he tries to extend the profession of "popularizer" to his high school participants of lessons, who, in his opinion, have more potential to reach their peers. Last but not least, he is an initiator and team member of the pilot activity "Building a community of talent for research, development and innovation" implemented under the GoHigher brand within the Smart Accelerator of the Pilsen Region III.

The reception of factual information in the form of a frontal explanation tends to be very difficult for a large number of pupils, especially in science and for pupils at the transition from lower to upper primary school. In contrast, these pupils enjoy conducting experiments or watching science shows, from which they sometimes take away surprisingly high level knowledge. What makes experimental learning so attractive to pupils, and why are they subsequently better able to absorb new information? Is it worth investing the time in developing this method of education?

WORKSHOP III.

14:00 – 15:00 **Wellbeing** at schools – local and “trans-local” inspiration

(Sportovní gymnázium – vzdělávací centrum nad sportovní halou, aula)

Mgr. Daniel Pražák – science and history teacher, Strossmayerovo náměstí elementary school, Praha

Daniel Pražák teaches science and history at primary school. He has a cat, Dissertation, with whom he posts inspirations from education on instagram @edukocka. He is interested in innovation in education, modern technology in teaching and mental health of students and teachers. He tries to make sure that positive things are heard about Czech education, for example through the (not only teachers') podcast Hovory z kabinetu (Teachers' Office Talks).

Everyone has heard about wellbeing over the years. What do we mean by wellbeing? How to do it? Where to get inspiration and why does the example from the aviation environment keep coming up? In this workshop we will answer all these questions, add a few more and explore different options. There will also be time for inspiration from abroad and from local schools.

WORKSHOP IV.

13:00 – 15:00 **Interest and non-formal education, support for the development of gifts and talents**
(SOUEL Domov mládeže pavilon 8 - aula)

Systematic training in the development of talented pupils and their presentation. Pupils will prepare a personal portfolio presentation showing their individual development and path to their future profession.

WORKSHOP V.

14:00 – 15:00 **Media, media coverage and education - good servant and bad master, what do students think**

(SOUEL, Domov mládeže pavilon 8)

Tereza Povolná discusses politics on Seznam Zprávy in the Št'astný podcast and is in her third year of studying journalism at Charles University. She spends too much time on Twitter. She likes to talk (and even argue) with anyone about current events at home and in the world. She is a mother of an Italian greyhound and a Beroun patriot.

Dominik Duffek is responsible for editing scripts and videos within the Based project. He makes sure that the final videos are 100% polished. In addition, he studies journalism at Charles University and works as an editor of the sports section of iDNES.cz. In his spare time, he hosts social events and works on audiovisual content.

We live in a society... addicted to the consumption of information. This can take many forms. From scrolling through reels to watching the news to reading emails from relatives filled with caps locks and exclamation points. But do you know where the information actually comes from? Why is there fake news and manipulation? What do we have the media for? What is the job of a journalists like? Or how to communicate with people on the internet? All this and much more will be presented in the Virtual - crash course on information and media literacy. This is a description of media literacy from Project Based, developed by students for students. Why is a media literacy a necessary topic and how to talk about it attractively?

Workshops			13:00-13:30	13:30-14:00	14:00-14:30	14:30-15:00
I.	Maths	Main hall	13:00 - 14:00			
II.	Chemistry	Outdoor premises			14:00 - 15:00	
III.	Wellbeing	„aula SG“			14:00 – 15:00	
IV.	Talented and gifted	Pavilon 8	13:00 – 14:00			
V.	Media	Pavilon 8			14:00 – 15:00	

15:00 – 15:30 **COFFEE BREAK**

15:30 – 16:30 Panel discussion: **Mgr. Vlastimil Volák "MINDSET, driver and blocker of development "**

Vlastimil Volák graduated from the Faculty of Education at the University of ZČU with a Master's degree in secondary school teaching. He then studied in Australia and Egypt. He successfully completed a one-year Noyce Leadership Program in the USA and a Knowledge Management Program in Portugal. He has participated in dozens of international conferences on education.

He co-founded and led the company SUMMIT DRIVE s.r.o. for 14 years. As a director for 15 years, he was involved in building and running Techmania Science Center o.p.s. He co-founded and led the Czech Association of Science Centers o.p.s. for 4 years as Chairman of the Board. As an expert member of the programme committee he participated in the organisation of the annual conferences of the European Association of Science Centres ECSITE for 7 years. He was a member of SKAV, CT:D and RSJ Foundation. He was a member of boards, commissions, platforms and committees in the field of education, science and research, regional development. For the second year he is the director of the Higher Vocational School and Secondary Technical School in Pilsen.

Mindset determines what habits we develop, what competences we acquire and what knowledge we work with. Mind-set is both a driver and a blocker. What role does and should school play in developing mindset? What is the role of institutions for non-formal and informal learning? Can schools influence the inner motivation of pupils, students and teachers? Their resilience?

THURSDAY – 13TH JUNE 20249:00 – 10:30 Block I **GENERATION Z AND HOW TO LEARN IN A NEW ERA****MEET GEN Z: WHO THEY ARE AND WHY THEY MATTER.****Understanding the generation Z: The key to the future of education and employment.****Hana Dux Blažková, Ph.D.** – Faculty of International Relations, Prague University of Economics and Business

Hana Dux Blažková is an Associate Professor at the Faculty of International Relations at the Prague University of Economics and Business. Her research and PhD from the University of Birmingham make her one of the leading experts on Networking and Leadership. Her courses for international students have long been among the highest rated courses at the Faculty. She leads research and development in the team, and is involved in the creation and implementation of new solutions. She has long been connecting the fields of business, start-ups and schools. He is a GEN Z optimist. We have bequeathed to this generation a far more complex environment, which they have miraculously mastered. They are curious, strong and want to change the world for the better. She is helping them discover their own path to their professional dreams. She enjoys when they then have a clearer idea of who and why they want to be and what exactly they need to get there.

How does Generation Z differ in their attitudes and values? What are their superpowers and what do they want to accomplish in today's world? You may be surprised by the data about them.

Martin Landgren - Celemi - Making Change Happen

Martin Landgren is with Celemi since 2011. He is passionate about effective communication, effective learning solutions and believes in the power of visualization and experiential and social learning. Martin is an experienced facilitator in Celemi and has rich experience of adapting the Celemi solutions to the context, goal and target group, to ensure lasting learning and to facilitate behavioural change. He is also responsible for the EMEA Celemi Solution Partner network with the main task to convince and train other companies to facilitate Celemi solutions. His professional experience before Celemi includes management positions within the commercial section of the Swedish Embassy in the Czech Republic, IT consulting, and management consulting. Martin speaks all Scandinavian languages and English fluently and gets by in Czech.

Using gamification and experiential learning methods to enable effective communication and learning that sticks.

The Swedish training solution company Celemi has since 1985 created gamified business simulations and dialogue tools for mainly global companies, but also organizations and schools all over the world. Learn about their guiding principles and their view on effective learning methods.

Daniel W. Pratt – professor of Bohemian studies at the University in Canada (tbc.)

Block II **EUROPEAN YEAR OF SKILLS**

Practical records of skills for pupils - Europass Mobility

Mgr. Irena Palánová, Czech National Europass centre leader, NPI

Irena Palánová has long been involved in education, recognition of qualifications and the labour market in the Czech Republic and Europe, she promotes skills for the future and enjoys finding innovations in education and connecting schools and companies. She runs the National Europass Centre at the National Institute of Education in the Czech Republic and promotes networking, partnerships and international cooperation.

Today, we acquire skills in other ways, rather than just formal education. How to record the skills that students acquire in voluntary projects or extracurricular activities? And how to turn such record into work experience and a reference that will carry weight in the labour market? Every experience counts if it is recorded and validated.

10:30 – 11:00 **COFFEE BREAK**

11:00 – 11:30 **WELLBEING** - living a happy life, efficiency in education

Mgr. Silvie Pýchová

Silvie Pýchová is the Programme Manager of the Partnership for Education 2030+. She started her professional career as a teacher at a grammar school and later worked at the House of International Cooperation, where she gained experience in coordinating European programmes in education. From 2010 to 2016, she held the position of the Chair of the Board of EDUin and headed the Education Programmes Section there. From 2010 to 2022, she was Director of the Standing Conference of Associations in Education (SKAV). Her expertise is in career counselling, and she is an internationally certified trainer in the Swiss CH-Q method. In 2012, she co-founded the non-profit organization Center of Competence. She is a member of the Government Council for NGOs, where she chairs the EU Committee, and is also part of the National Convention on Education, the National Counselling Forum and the International Association of Study and Career Guidance IAEVG. She is also a member of the President's Advisory Team on Education since 2023.

Wellbeing is still a new concept in the Czech environment. Why is it not appropriate to translate it into Czech? In this presentation we will discuss what wellbeing includes and what demands it makes on educators and the environment in which education takes place. Within the framework of the Partnership for Education 2030+, which connects over 500 organisations dedicated to the development of education in the Czech Republic, a definition of wellbeing and a system of measures that need to be implemented if wellbeing is to be promoted in education have been developed. The presentation will also include concrete examples of wellbeing support collected from organisations involved in the Week for Wellbeing in Schools, initiated by the 2030+ Partnership in February 2024.

11:30 – 12:00 WORKING WITH A HETEROGENEOUS CLASS

RNDr. Zdeňka Chocholoušková, Ph. D., guarantor of talent support, NPI

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Zdeňka Chocholoušková works as a Guarantor of Talent Support at the National Pedagogical Institute of the Czech Republic and until December 2022 as Regional Coordinator of Talent Support at the National Pedagogical Institute of the Czech Republic in the Pilsen Region. She is mainly dedicated to working with schools and pedagogical staff in the system of giftedness support and connecting with actors in the region, in the Czech Republic and internationally. He has been involved in teacher education for a long time, both in undergraduate training and in lifelong learning. She focuses on botany, biology didactics, field teaching and the use of activation methods in teaching. He is an active researcher (more than 100 scientific and popularization publications). How to work with gifted pupils within a heterogeneous team, or Mind the step! And the Ten Commandments of successful work with a heterogeneous classroom.

12:00 – 13:00 LUNCH**13:00 – 13:30 OPPORTUNITIES IN EDUCATION**

doc. Ing. Milan Edl, Ph.D. - Vice Dean for Development and External Relations Faculty of Engineering University of West Bohemia in Pilsen Regional Manager for RIS3 strategy in the project Smart Accelerator of Pilsen Region III, Regional Development Agency

Milan Edl graduated in industrial engineering and management at the Faculty of Mechanical Engineering of ZČU, habilitated in Mechanical Engineering. From 2014 to 2022 he was the Dean of the Faculty of Mechanical Engineering of ZČU, currently the Vice Dean of the Faculty of Mechanical Engineering for Development and External Relations and the Regional Manager of the RIS3 Strategy of the Pilsen Region. He focuses

on sustainable production systems, implementation of modern technologies of the 4.0 phenomenon in industry and education, circular economy. He has worked at three foreign universities as a visiting professor. He is also an evaluator of the National Accreditation Office of the Czech Republic and an evaluator and rapporteur of the projects of the Technology Agency of the Czech Republic, he is also the founder of Industrial Council and the Czech-Bavarian International Industrial Council. In cooperation with the Industrial Council, he founded the Children's Technical University in the Pilsen and Karlovy Vary regions. He is the President of the Czech Technology Platform for Engineering and Vice President of the Smart Pilsen Region Cluster.

Human Potential and New Technologies or Opportunity for Education

This paper looks at the future of formal and non-formal education and explores how new technologies can open up new opportunities for education. Key themes include the direction of technology, which describes trends in technologies such as artificial intelligence, automation, robotics and digital transformation, and explores how these technologies are impacting education and what new skills are needed. It also discusses how people's roles are changing as a result of technological advances and considers how people can work with technology and use it to learn effectively. It also identifies new career opportunities that are emerging as a result of the developments. Overall, this presentation offers a comprehensive view of the future of education and its innovation, with an emphasis on the synergy between technology and human potential.

13:30 – 14:10 **FINANCIAL LITERACY**

Mgr. Aneta Pešková Horká

Mgr. Aneta Pešková Horká has been involved in non-formal education for about 15 years, starting with supporting children and young people within the services of the Prague branch of People in Need. The topic of active citizenship and empowerment of young people has grown close to her heart, and she has focused on this topic in the Variants educational programme, where she lectured courses focused on the development of active citizenship and community support. She was also involved in the creation of the online course Living in the City, which linked the methodological approach of learn-discover-act with sustainability and environmental issues. She is now working as a methodologist of the Adolescent Refugee Support Programme within SOS Ukraine of People in Need and since October 2023 she is also the coordinator of the financial education projects for young people at the Institute for Prevention and Resolution of Over-indebtedness.

Bc. Barbara Halířová

Through a professionally produced 5-part series, we want to bring a new perspective on how to approach teaching children through the issue of debt. We don't just address interest rates, the pitfalls of falling into foreclosure, but we want students across the educational spectrum to see this issue through the lens of experience and especially the risks it poses to children and students today.

14:10 – 14:50 EXPERIENTIAL LEARNING - WHY IS IT MORE EFFECTIVE?

Bc. Jakub Štěpánek - graduate of the University of Chemistry and Technology in Prague, science popularizer

What makes experiential learning so attractive to students, and why they can subsequently absorb new information better? Is it worth investing the time in developing this method of education?

14:50 – 15:20 COFFEE BREAK**15:20 – 16:00 NON-FORMAL EDUCATION - A MULTI-LEVEL CROSSROADS**

Mgr. Jan Husák, Medium article of support of the Ministry of Education in the Pilsen Region

Regional coordinator of cooperation of the Central Support Article of the Ministry of Education in the Pilsen Region, external researcher at the Masaryk Institute of Higher Studies of the Czech Technical University, volunteer and member of the board of AFS Intercultural Programmes.

He has launched, joined, stayed and left a wide range of activities with children and youth work, students, non-formal, formal and further education, youth policy, the world of work and research. And what has he learned about the development and importance of non-formal education through his life journey so far? What trends have shaped non-formal education in the country and what are working now? Why does work with children and youth, and non-formal education as a whole, stand at a crossroads of collapse between simplicity and complexity? And how do we navigate this multi-level crossroads and support diverse actors in their next steps so that children and young people's journeys lead to support and success for all?

What has he learned through his life journey about the development and importance of non-formal education? What trends have shaped it in the Czech Republic and what are influencing it now? Why does work with children and youth and non-formal education as a whole stand at a crossroads of collapse between simplicity and complexity? And



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how do we navigate this multi-level crossroads and support diverse actors in their next steps so that children and young people's journeys lead to support and success for all?

16:00

CLOSING OF THE CONFERENCE

– summary, outcomes of the conference