VENUE

SCHOLA 2017, 13th International Conference on Engineering Pedagogy, will be held from 6 to 7 December 2017, at the University College of Teacher Education in Lower Austria – Campus Melk, Austria.

This international conference aims to focus on the exchange of relevant trends and research results as well as the presentation of practical experiences in Engineering Pedagogy.
CO-ORGANIZERS

SCHOLA 2017 is organized in cooperation of University College of Teacher Education in Lower Austria and DTI University in Dubnica nad Váhom, Slovakia, under the auspices of the International Society of Engineering Pedagogy – IGIP and other partners.

PATRONAGE OVER THE CONFERENCE

VR HS-Prof. Mag. Dr. Norbert Kraker, University College of Teacher Education in Lower Austria

doc. Mgr. Gabriela Gabrhelová, PhD., MBA, LL.M
Director, DTI University, Slovakia

SUPERVISORS

doc. Ing. Roman Hrmo, PhD., MBA, ING-PAED IGIP
Executive Committee Member of International Society of Engineering Pedagogy – IGIP, Vice Rector for Quality and Development, DTI University, Slovakia

prof. Dr. Dr. Michael E. Auer
President of the International Federation of Engineering Education Societies - IFEES, Carinthia University of Applied Sciences, Austria

prof. Dr. Maria Teresa Restivo
President of International Society of Engineering Pedagogy – IGIP, University of Porto, Portugal

SCIENTIFIC BOARD

Ing. Pavel Andres, Ph.D., ING-PAED IGIP, Czech Republic
Ing. Alexander Bilčík, PhD., ING-PAED IGIP, Slovakia
prof. PhDr. Martin Bilek, Ph.D., Czech Republic
prof. Ing. Pavel Cyrus, CSc., Czech Republic
doc. PhDr. Dana Dobrovská, CSc., Czech Republic
prof. Dipl.-Ing. Franz Erhard, CMC, Austria
doc. Mgr. Gabriela Gabrhelová, PhD., MBA, LL.M, Slovakia
prof. PaedDr. Alena Hašková, CSc., Slovakia
Ing. Peter Jakúbek, PhD., MBA, LL.M, Slovakia
prof. Dr. Elena Kovalenko, Ukraine
prof. Mag. Dr. Norbert Kraker, Austria
Ing. Lucia Krištofiaková, PhD., ING-PAED IGIP, Slovakia
Ing. Daniel Kučerka, PhD., ING-PAED IGIP, Czech Republic
doc. Ing. Daniel Lajčín, Ph.D., MBA, LL.M, Slovakia
doc. PaedDr. Tomáš Lengyelfalusy, PhD., Slovakia
Dr. Kálmán Liptai, PhD., Hungary
Mgr. Juraj Mišťina, PhD., Slovakia
Mgr. Adriana Nagyová, PhD., Slovakia
dr hab. prof. nadzw. Henryk Noga, Poland
prof. PhDr. Gabriela Petrová, CSc., Slovakia
PaedDr. Dáša Porubčanová, PhD., Slovakia
Assoc. Prof. Dr. Tiia Rüütmann, Estonia
doc. Ing. Čestmír Serafin, Ph.D., Czech Republic
prof. Mag. Dr. Christine Schörg, Austria
prof. Ing. Milan Slavík, CSc., Czech Republic
doc. RNDr. Petr Sládek, CSc., Czech Republic
prof. Mag. Christian Spreitzer, Austria
doc. PhDr. František Stellner, Ph.D., Czech Republic
Ing. Petr Svoboda, Ph.D., ING-PAED IGIP, Czech Republic
Dr. habil. Ing. István Szőkől, PhD., Slovakia
prof. Ing. Rudolf Šlosár, PhD., Slovakia
Assoc. Prof. Kevin Taylor, USA
prof. PhDr. Alena Vališová, CSc., Czech Republic

PROGRAM COMMITTEE

Ing. Lucia Krištofiaková, PhD., ING-PAED IGIP, Slovakia

prof. Dipl.-Ing. Franz Erhard, CMC, Austria

CONFERENCE LANGUAGES

English

TOPICS OF INTEREST

• Digital Humanism
• Engineering Pedagogy Education
• New Trends in Branch Didactics
• Accreditation, Curriculum Development, Quality in Education
• Technical Teacher Education, Key Competencies
• Networks of Social Sciences in Engineering Education
• Information and Communication Technologies in Education
• Talent Education
SCHOLA 2017 PROGRAMME
UNIVERSITY COLLEGE OF TEACHER EDUCATION IN LOWER AUSTRIA – CAMPUS MELK, AUSTRIA

Address
Abt-Karl-Straße 23, 3390 Melk
Web page
Google Maps

6. 12. 2017

10.00–10.30 Registration
10.30 CONFERENCE OPENING
10.30–12.30 KEYNOTE SECTION
chair: Ing. Pavel Andres, Ph.D., ING-PAED IGIP

Asoc. Prof. Dr. Habil. Vilmos Vass, PhD.
NEW MEANING OF LEARNING IN THE 21ST CENTURY

doc. PhDr. Miroslav Škoda, PhD.
FAIR VALUE IN NEW AGE OF ACCOUNTING

Ing. Mag. Dr. Alexander Wöhrer
A TECHNOLOGICAL AND EDUCATION PERSPECTIVE ON INDUSTRY 4.0

Ing. Pavel Andres, Ph.D., ING-PAED IGIP
A NEW LEARNING AND TEACHING PARADIGM: DIDACTIC ASPECTS AND INNOVATIVE TRENDS IN TECHNICAL TEACHER EDUCATION AT CTU IN PRAGUE

12.30–13.30 Lunch break

13.30–15.30 PRESENTATIONS
chair: Dana Dobrovská

Dana Dobrovská
NEGATIVE PERSONAL HABITS AND THEIR PSYCHOLOGICAL EFFECTS IN UNIVERSITY STUDIES

Alena Hašková - Zdenka Gadušová
PROFESSIONAL COMPETENCES OF TECHNOLOGY NOVICE TEACHERS IN SLOVAKIA: CASE STUDY

Josef Buchner
IMPACT OF AN AUGMENTED REALITY LEARNING ENVIRONMENT ON TEACHER MOTIVATION IN AN IN-SERVICE TRAINING ON CREATIVE MULTIMEDIA TECHNOLOGY

Jaromír Novák
PROJECT APPROACH TO TEACHING AND LEARNING ECONOMICS
Gabriela Petrová - Nina Kozárová
TEXTBOOKS AS THE MEANS FOR AN INDIVIDUAL TEACHING STRATEGY

Daniela Moser
DRIVING 21ST CENTURY LEARNING

Daniela Moser - Theresia Eisel-Eiselsberg
ENTREPRENEURIAL LEARNING AND TEACHING

15.30–16.00 Coffee break

16.00–18.00 PRESENTATIONS
chair: Juraj Miština

Juraj Miština
THE IMPORTANCE OF TECHNICAL WRITING SKILLS FOR STUDENTS OF ENGINEERING AND SCIENCE STUDIES

Simona Ŕurková - Zdenka Gadušová
SELF-EVALUATION AS A SUBSTANTIAL PART OF TEACHER ASSESSMENT

Jana Jurinová
INCREASING IT SKILLS IN ALGORITHIZATION FOR STUDENTS OF APPLIED INFORMATICS

Jaroslav Kultan
THREE-STATE LOGIC – TRIT

Brigita Alberová
INFLUENCE OF MOTION ACTIVITY ON SPATIAL ORIENTATION
(TEACHING SPATIAL ORIENTATION BLIND USING THE NEW METHOD)

István Szőköl
NEW METHODS OF TESTING AND EVALUATION

16.00–18.00 ROUND TABLE: SECONDARY VOCATIONAL SCHOOLS
chair: Ján Hargaš, Roman Karaffa, Ján Pituch

18.30 SOCIAL PROGRAMME


09.00–12.00 PRESENTATIONS
chair: Roman Hrmo

Roman Hrmo - Lucia Krištofiaková - Alexander Bilčík
QUALITY ASSURANCE IN THE SCHOOL ENVIRONMENT

Timea Šeben Zatková
EDUCATION FOR GLOBAL CITIZENSHIP IN PREPARATION OF TEACHERS OF VOCATIONAL SUBJECTS

Markéta Janíková - Petra Kowaliková
TECHNICAL EDUCATION IN THE CONTEXT OF THE FOURTH INDUSTRIAL REVOLUTION

Slávka Krásna - Silvia Barnová
EDUCATIONAL ASPECTS OF DIGITAL HUMANISM
Libuše Páleníčková
DEVELOPING MEDIA LITERACY WITH TECHNICAL UNIVERSITY STUDENTS

Martin Adamovič
LIFELONG LEARNING AS A PLATFORM FOR SUSTAINABLE DEVELOPMENT OF SOCIETY AND THE LABOR MARKET

Miriam Mattova
THE INFLUENCE OF DIGITAL ADVERTISING ON THE CURRENT GENERATION DIGITAL ADVERTISING MATERIALS AND THERE NEGATIVE EFFECTS

Lívia Hasajová
FINANCIAL LITERACY AS A FUNDAMENTAL STRATEGY OF EFFECTIVE LEARNING
KEYNOTE 1

Asoc. Prof. Dr. Habil Vilmos VASS, PhD.
Budapest Metropolitan University (METU), Department on Social Sciences and International Studies

Title of the keynote:
NEW MEANING OF LEARNING IN THE 21ST CENTURY

Annotation:
The keynote analyzes the main trends and processes on the new meaning of learning, especially the required coherency between learning and motivation under the umbrella of creativity.

Keywords:
learning, motivation, creativity, creative knowledge transfer

Professional biography:
Vilmos VASS is habilitated Associate Professor of Education Science and a teacher of Hungarian language and literature, history and pedagogy. He has been teaching in schools and universities for 35 years. He is a board member of several national and international associations. Between 2004 and 2010, he was a member of the EU Key Competences Cluster. He is a member of the Editorial Board of 11 national and international journals: He now works at the Budapest Metropolitan University, Hungary and J. Selye University, Komarno, Slovakia. He is the author or co-author of nearly 200 Hungarian and English language publications with a citation index of 163. His research areas and recent publications are on learning-centred curriculum theory, new meaning of learning and creative knowledge transfer. Email: drvassvilm@gmail.com
Annotation:
Fair value accounting is an essential feature of International Financial Reporting Standards. Even though this accounting method did not spark the financial crisis, it did enhance its impact. As a consequence of the financial crisis the IASB amended IAS 39 to override the fair value recognition. The amendments to IAS 39 & IFRS 7 permitted reclassifications of the categories Held for Trading and Available for Sale, some of which had explicitly been forbidden prior to the amendment. Critics argue that these modifications to IAS 39 made it possible to camouflage losses of hundreds of billions of euros. The main goal of this paper is to evaluate the amendment to IAS 39 & IFRS 7 by conducting a survey of the banking sector. Furthermore fair value accounting in general is critically discussed.

Keywords:
fair value, financial reporting, financial crisis, financial statements, accounting harmonisation

Professional biography:
Miroslav ŠKODA is professionally oriented on financial and international accounting. He is an expert in valuation of assets and liabilities. He defended his PhD. at Faculty of Management, Comenius University in 2003. He obtained his Associate Professor degree at the same institution in 2011 in the area of valuation in accounting. He also works as a vice-rector for international relations at DTI University, Slovakia. He is the author of various publications related to this topic.
Title of the keynote:  
A TECHNOLOGICAL AND EDUCATION PERSPECTIVE ON INDUSTRY 4.0

Annotation:  
The technological pillows of Industry 4.0 will be described with a focus on recent developments in Cloud Computing and Big Data. Additionally, its current status in Austria is described in various areas as well as the effects on the education system.

Keywords:  
industry 4.0, cloud computing, big data, teaching engineering

Professional biography:  
Alexander WÖHRER is a Professor at the HTBLuVA Wr. Neustadt since 2016 and a Lector at the University of Vienna for various topics - including Cloud Computing - since 2005. He received his Ph.D. in business informatics from the University of Vienna in 2010. He (co-)authored more than 35 peer-reviewed articles in the area of data management and distributed systems and is a reviewer for them, e.g. IEEE Transactions of Cloud Computing and Elsevier Future Generation Computer Systems. He is a member of the Austrian Computer Society and led the work group on Cloud Computing between 2010 and 2012.
Title of the keynote:
A NEW LEARNING AND TEACHING PARADIGM: DIDACTIC ASPECTS AND INNOVATIVE TRENDS IN TECHNICAL TEACHER EDUCATION AT CTU IN PRAGUE

Annotation:
21st century technical subjects' teachers have to be prepared (Technical teacher education, and Vocational Teacher Education), not only on the level of knowledge of the particular technologies (how to operate it), which is not sufficient nowadays. New accreditations should be designed how to apply these technologies and/or particular devices into the educational process effectively in terms of a new learning and teaching paradigm. In other words, we are not concentrated on technological issues, didactic and methodological aspects are highly important. Moreover, we will discuss current activities and related results achieved in the area of applied investigation (Fund of Educational Policy of the Czech Republic, Windows Edu Proof of Concept at CTU in Prague).

Keywords:
technical teacher education, ICT in education, didactics, methodological aspects

Professional biography:
Pavel ANDRES is a university tutor in study programmes: Technical Teacher Education, Management and Economy at Masaryk Institute of Advanced Studies, CTU in Prague. He is an active member of the International Society for Engineering Pedagogy (IGIP), IGIP Executive Committee member (2010 - 2014), president of Educational Affairs of the IGIP National Monitoring Committee of the Czech Republic, president, general secretary, member since 2003. In 2016, he was awarded IGIP Senior Member. He is an author of many publications and articles in the field of technical education, and a team leader or member of various national and international projects. His Professional interest areas are: Field Didactics, Teaching Methodology, ICT in education, Human Resource Management.