



Edited by:

Mafalda Carmo

World Institute for Advanced Research and Science (WIARS), Portugal

Published in Lisbon, Portugal, by W.I.A.R.S. www.wiars.org

Copyright © 2020 World Institute for Advanced Research and Science

All rights are reserved. Permission is granted for personal and educational use only.

Commercial copying, hiring and lending is prohibited. The whole or part of this publication material cannot be reproduced, reprinted, translated, stored or transmitted, in any form or means, without the written permission of the publisher. The publisher and authors have taken care that the information and recommendations contained herein are accurate and compatible with the generally accepted standards at the time of publication.

The individual essays remain the intellectual properties of the contributors.

ISBN: 978-989-54815-1-4

ORGANIZING AND SCIENTIFIC COMMITTEE

Organizer

World Institute for Advanced Research and Science (WIARS) www.wiars.org

Conference and Program Chair

Mafalda Carmo World Institute for Advanced Research and Science (WIARS), Portugal

International Scientific Committee

Aaron R. Deris, Minnesota State University, USA

Abdurrahman Guelbeyaz, Nagasaki University, School of Global Humanities and Social Sciences, Japan

Adrián Ponz Miranda, Zaragoza University, Spain

Ahmad A. Oueini, Lebanese American University, Lebanon

Alan Singer, Hofstra University, USA

Ali Baykal, Bahcesehir University, Turkey

Alice Stephens, Clark Atlanta University, USA

Amir Dirin, Haaga-Helia University of Applied Science, Finland

Ana Conboy, College of Saint Benedict and Saint John's University, USA

Ana-Maria Bercu, Alexandru Ioan Cuza University of Iasi, Romania

Anca Draghici, Politehnica University Timisoara, Romania

Andis Klegeris, University of British Columbia, Canada

Andrea Fiorucci, University of Salento, Italy

Andrea Hathazi, Babes-Bolyai University, Romania

Angela Hovey, Lakehead University, Canada

Angela James, University of KwaZulu-Natal, South Africa

Angela Piu, University of Valle d'Aosta, Italy

Anja María Mackeldey, Colegio Alemán Medellín / Universidad de Antioquia, Colombia

Anne Julia Fett, Martin-Luther-Universität Halle-Wittenberg, Germany

Antoni Kolek, University of Social Sciences, Poland

Aphrodite Ktena, National and Kapodistrian University of Athens, Greece

Aviva Dan, Ohalo Academic Education College, Israel

Beata Maślanka-Wieczorek, Polish-Japanese Academy of Information Technology, Poland

Beatriz Carrasquer Álvarez, Zaragoza University, Spain

Begoña Sampedro, Univesity of Cordoba, Spain

Belkis Tekmen, Baskent University, Turkey

Binnur Yeşilyaprak, Ankara University, Turkey

Çağla Atmaca, Pamukkale University, Turkey

Carolina Bodea Hategan, Babes-Bolyai University, Romania

Celia MacDonnell, University of Rhode Island and Brown University, USA

Cezar Scarlat, University "Politehnica" of Bucharest, Romania

Charalampos Karagiannidis, University of Thessaly, Greece

Charles Elkabas, University of Toronto, Canada

Cheng-Hsuan Li, National Taichung University of Education, Taiwan

Christine Besnard, Glendon College, York University, Canada

Christos Manasis, TEI of Sterea Ellada, Greece

Chun Wu, Mount Marty College, USA

Cory A. Bennett, Idaho State University, USA

Cristiano Luchetti, American University of Sharjah, United Arab Emirates

Dalia Hanna, Ryerson University, Canada

Daniela Pasnicu, Spiru Haret University, Romania

David Aparisi, University of Alicante, Spain

David Nocar, Palacký University in Olomouc, Czech Republic

Deborah Gay Wooldridge, Bowling Green State University, USA

Devorah Eden, Western Galilee College, Israel

Dimitris Dranidis, The University of Sheffield International Faculty, CITY College, Greece

Donata Puntil, King's College London, United Kingdom

Dorina Anca Talas, Babes-Bolyai University, Romania

Douglas Baleshta, Thompson Rivers University, Canada

Elena Polyudova, Defense Language Institute, USA

Ellen Whitford, Georgia Southern University, USA

Francis Stonier, Southwest University, China

Gina Chianese, University of Trieste, Italy

Ginette Roberge, Laurentian University, Canada

Giuditta Alessandrini, Università degli Studi Roma TRE, Italy

Gráinne Ní Dhomhnaill, University College Dublin, Ireland

Gyöngyi Bujdosó, University of Debrecen, Hungary

Harvey Oueijan, Notre Dame University, Lebanon

Hava Vidergor, Gordon Academic College of Education / Arab Academic College of Education, Israel

Helena Skarupská, Tomas Bata University, Czech Republic

Henri Jacobs, Central University of Technology, Free State (CUT), South Africa

Huseyin Bicen, Near East University, Nicosia, Cyprus

Ilijana Čutura, University of Kragujevac, Serbia **Ilona Tandzegolskienė**, Vytautas Magnus University, Lithuania

Ina Blau, The Open University of Israel, Israel

Ioana Velica, Babes-Bolyai University, Romania

Ionut Vladescu, University "Petre Andrei" of Iasi, Romania

Jacquelyn Baker-Sennett, Western Washington University, USA

Janaina Cardoso, Rio de Janeiro State University, Brazil

Jeanne Schreurs, Hasselt University, Belgium

Jeannette Jones, Texas Lutheran University, USA

Jiří Pavelka, Tomas Bata University in Zlín, Czech Republic

Jitka Hloušková, University of Pardubice, Czech Republic

Joana Paulin Romanowski, PUCPR -Pontificia Universidade Católica do Paraná, Brazil

Joanna Paliszkiewicz, Warsaw University of Life Sciences, Poland

Juana Maria Sancho Gil, University of Barcelona, Spain

Judith Szerdahelyi, Western Kentucky University, USA

Julia Haba-Osca, Universitat de Valencia, Spain

Kadi Lukanenok, Tallinn University, Estonia

Karel Němejc, Czech University of Life Sciences Prague, Czech Republic

Karim Moustaghfir, Al Akhawayn University in Ifrane, Morocco

Kateřina Vitásková, Palacký University in Olomouc, Czech Republic

Katerina Kabassi, Technological Educational Institute of the Ionian Islands, Greece

Khondkar R. Islam, George Mason University, USA

Konstantinos Kalemis, National and Kapodistrian University of Athens / National Centre for Local Government and Public Administration, Hellenic Ministry of Education, Greece

Kyparisia Papanikolaou, School of Pedagogical and Technological Education, Greece

Ladário da Silva, Universidade Federal Fluminense (UFF), Brazil

Laura Rio, University of Bologna, Italy

Lazar Stošić, Institute of management and knowledge, Regional coordinator for Republic of Serbia, Macedonia

Leela Ramsook, University of Trinidad and Tobago, Trinidad and Tobago

Lefkothea Kartasidou, University of Macedonia, Greece

Leila Kajee, University of Johannesburg, South Africa

Lina Kaminskienė, Vytautas Magnus University, Lithuania

Lisa Winstead, California State University, Fullerton, USA

Longzhi Yang, Northumbria University, United Kingdom

Loreta Chodzkiene, Vilnius University, Lithuania

Luca Refrigeri, University of Molise, Italy

Lucía Casal de la Fuente, University of Santiago de Compostela, Spain

Luis Gonzaga Roger Castillo, Universidad de Granada (UGR) / Centro de Estudios Bizantinos, Neogriegos y Chipriotas, Spain

Łukasz Tomczyk, Pedagogical University of Cracow, Poland

Luminita Cocarta, Al. I. Cuza University of Iasi. Romania

Maciej Dębski, University of Social Sciences, Poland

Magdalena Mądra-Sawicka, Warsaw University of Life Sciences, Poland

Magdolna Chrappán, University of Debrecen, Hungary

Malgorzata Cieciora, Polish-Japanese Academy of Information Technology, Poland

Marga Vives Barceló, University of the Balearic Islands, Spain

Maria Carme Boqué Torremorell, Ramon Llull University, Spain

Maria Luisa de Natale, Università Cattolica del Sacro Cuore, Italy

Maria Moundridou, School of Pedagogical and Technological Education (ASPETE), Greece

Marko Slavkovic, University of Kragujevac, Serbia

Marta Talavera, University of Valencia, Spain

Maya Wizel, Middlebury College / Kibbutzim College, USA / Israel

Melissa Caspary, Georgia Gwinnett College, USA

Michael Reiner, IMC University of Applied Sciences Krems, Austria

Michele Lemos de Souza, Universidade Federal Fluminense, Brazil

Milan Kubiatko, University of Zilina, Slovakia

Nadir Kolachi, University of Fujairah, United Arab Emirates

Napak-on Sritrakarn, Rajamangala University of Technology Isan, Thailand

Naseer Ahmed, Al Ghurair University, United Arab Emirates

Natalie Lavoie, University of Quebec in Rimousk, Canada

Nazario Zambaldi, Free University of Bolzano, Italy

Nella Mlsová, University of Hradec Králové, Czech Republic

Nilza Costa, University of Aveiro, Portugal

Odeta Merfeldaitė, Mykolas Romeris University, Lithuania

Odette Gabaudan, TU Dublin, Ireland

Olga Chis, Babes Bolyai University, Romania

Oliver Holz, Katholieke Universiteit Leuven, Belgium

Olivier Marty, CNAM, France

Paola Damiani, University of Turin, Italy

Paschalia Patsala, Arts and Humanities Research Council, United Kingdom

Patricia E. Reynolds, University of Mary Washington, USA

Paul Sage, Queen's University, Belfast, United Kingdom

Pavel Brebera, University of Pardubice, Czech Republic

Pavel Kapoun, College of Entrepreneurship and Law, Czech Republic

Paweł Topol, Adam Mickiewicz University in Poznań, Poland

Pedro Perera, Universidad de La Laguna, Spain

Petros Kefalas, University of Sheffield International Faculty, Thessaloniki, Greece

Piotr Pietrzak, Warsaw University of Life Sciences, Poland

Pule Phindane, Central University of Technology, South Africa

Rasa Nedzinskaite, Lithuanian University of Educational Sciences, Lithuania

Remigijus Bubnys, Siauliai University, Lithuania

Richard Walker, University of York, United Kingdom

Roger Nkambou, University of Québec at Montréal, Canada

Rosanna Tammaro, University of Salerno, Italy

Rosemary Papa, Soka University of America, USA

Ryuichi Matsuba, Kumamoto University, Japan

Sam Ramaila, University of Johannesburg, South Africa

Sandra Braun, Mount Royal University, Canada

Seppo Sirkemaa, University of Turku, Finland

Seweryn Spalek, Silesian University of Technology, Poland

Sheryl Williams, Loughborough University, United Kingdom

Silvânia Alves de Carvalho, Universidade Federal Fluminense, Brazil

Silvia Pokrivčáková, Trnava University, Slovakia

Simon Richir, Arts et Metiers Paristech (ENSAM), France

Sinan Olkun, Final International University, Turkey

Stefania Pinnelli, University of Salento, Italy

Stephanie Linek, ZBW - Leibniz Information Centre for Economics, Germany

Susan Scott, Lakehead University, Canada

Suzani Cassiani, Universidade Federal de Santa Catarina, Brazil

Suzie Savvidou, The University of Sheffield International Faculty, CITY College, Greece

Syed Ziaur Rahman, College of Applied Sciences-Ibri, Ministry of Higher Education, Sultanate of Oman, Oman

Tatjana Portnova, Russian Center of the University of Granada, Spain

Tena Velki, Josip Juraj Strossmayer University of Osijek, Croatia

Théodore Njingang Mbadjoin, University Lumière Lyon 2, France

Todd Brower, Western State College of Law, USA

Valentina Haralanova, Linnaeus University, Sweden

Vashti Singh, Education Consultant and Independent Researcher, Trinidad and Tobago

Vassilis Chatzibirros, The University of Sheffield International Faculty, CITY College, Greece

Vicente J. Llorent, University of Cordoba, Spain

Wendy Setlalentoa, Central University of Technology, South Africa

Wiktor Bołkunow, Warsaw School of Economics, Poland

Yogesh Kumar Sharma, Government Shakamdhar PG College, Sambhar Lake, India

Zoltán Rónay, Eötvös Loránd University, Hungary

INDEX OF CONTENTS

VIRTUAL PRESENTATIONS

Teachers and Students	
Promoting student activism through civics education Alan Singer	3
Assessing TPACK integration in senior phase science teaching and learning at South African township schools Hlulani Shilenge, & Sam Ramaila	3
Music curriculum integration practices - "accountability" as policy translation in professional music training: The case of the tut Hua Hui Tseng	4
Factors influencing teachers' inclination to use improvised resources in life sciences classrooms Mahlatse Ramothwala, & Sam Ramaila	4
Improving university students' perceptions of peer assessment Elizabeth Ruiz Esparza Barajas	5
The affordances of improvised resources in physical sciences classrooms Koketso Ntladi, & Sam Ramaila	5
The relationship between teacher-student relationship, self-confidence, and academic achievement in the Chinese context Tianxue Cui, Qimong Liu, Jian Liu, & Chuang Wang	5
Mapping disability representation in primary school youth literature Nikoletta Gulya, & Anikó Fehérvári	6
The relationship between students' approaches toward learning and academic achievement in the Chinese context Chuang Wang, Qimong Liu, Jian Liu, & Tianxue Cui	6
A grounded theoretical study on the influence mechanism of verbal abuse by teachers Jinnan Li, & Yuheng Zhang	7
Evaluation in scientific advisors' commentaries as a means to develop students' writing skills Albina Vodyanitskaya	7
Czech curricular reform in the rear-view mirror: The case of foreign language learning Pavel Brebera	8
Basis of architectural survey between geometry and representation. A first educative approach Eugenia Comparetto, Martino Pavignano, Ursula Zich, Ornella Bucolo, & Daniela Miron	8
Creating authentic learning and assessment environments Katerina Kasimatis & Theodora Panageorgiou	8

Design based on ICF The training courses for in-service teachers Laura Sara Agrati	9
Beating the odds: Induction designed to keep new professionals in the field Megan Purcell	9
The use of computer simulations as an intervention to address misconceptions of grade 11 physical sciences learners in South African township schools James Mphafudi, & Sam Ramaila	10
Beyond gamification: Classcraft as an engagement tool in the teaching of English as a second language Verónica Membrive, & Madalina Armie	11
South African grade 11 physical sciences learners' perceptions of scientific inquiry Rosemary Zunga, & Sam Ramaila	11
Prospective teachers' coping with mathematical algorithms in a flipped class setting Ilana Lavy, & Atara Shriki	12
Exploring South African in-service teachers' baseline knowledge of mathematics: A case of further education and training phase Sam Ramaila, & Philemon Seloane	12
Does self-assessment of creativity and its development support the development of creativity? Atara Shriki, & Ilana Lavy	13
South African at-risk undergraduate engineering students' perceptions of the REMEDIAL intervention designed to enhance their academic performance in mathematics as a key knowledge domain Sam Ramaila, & Philemon Seloane	13
Skilling for tomorrow at school: A training project for IVET and technical students' soft skills Francesco Tommasi, Ioris Franceschinis, Marco Perini, & Giuseppe Tacconi	14
Pedagogical practices adopted by teachers when using improvised resources in life sciences classrooms Syamthanda Zondi, & Sam Ramaila	15
Work ethics of special education teachers in South Korea HwaChoon Park	15
CoAstro: @n astronomy condo — teachers' attitudes and epistemological beliefs towards science in a citizen science project Ilídio André Costa, Carla Morais, & Mário João P. F. G. Monteiro	16
Effects of experience-based credit-bearing courses on college students' career adaptability and employment skills in Korea HwaChoon Park, & Cheonsoo Park	17
Students in research - experience with research-based teaching Marcin Fojcik, Martyna K. Fojcik, & Bjarte Pollen	17
The Chinese experience in promoting teacher professional development in disadvantaged areas Gong Chen	18

Supporting research students in their challenging teaching role: Experience of one Hong Kong university Barbara Tam, & John Sager	18
Pre-service engineer educators learning mathematics: Mapping the lived complexity Katerina Kasimatis, Andreas Moutsios-Rentzos, Nikolaos Matzakos, Varvara Rozou, & Dionisios Kouloumpis	19
Evaluation of factors that influence school failure in a group of adolescents in Iasi county Adriana Albu, Mihaela Vlada, & Florin Dima	19
The changing role of supporting educational development Kannass Chan, & Barbara Tam	20
The contribution of drama as an alternative teaching approach to refugee students Kyriaki Chatzikonstantinou	20
Teachers' preparedness and experiences in teaching meiosis to grade 12 learners in Limpopo province Thapelo Manaka, & Lydia Mavuru	21
Value of effective feedback to candidates leads to improving the learning goal Ann Toler Hilliard, & Renee Foose	21
TOEIC score prediction according to student's learning performance on university English courses Yi-Jie Ju, & Cheng-Hsuan Li	21
Teachers' inclusive values and teaching practices in work with students with ADHD Ivana Batarelo-Kokić, Esmeralda Sunko, & Nataša Vlah	22
Teacher enhancement of interactions in life sciences English-second-language learners classes Vuyo Kamati, & Lydia Mavuru	23
Investigating the impact of learn by doing in civil technology class: Students action Khojane Geoffrey Mokhothu	23
A 'digital pedagogies'—based learning platform Matthew Montebello	24
Historical analysis of students' performance: an age and gender perspective Silvia B. González-Brambila, Lourdes Sánchez-Guerrero, Beatriz A. González-Beltrán, & Josué Figueroa-González	24
Improving knowledge transfer in simulation games based on cognitive load theory Christian Ploder, Thomas Dilger, & Reinhard Bernsteiner	24
Effect of students that must repeat a course in the distribution and capacity of groups Lourdes Sánchez-Guerrero, Beatriz A. González-Beltrán, Josué Figueroa-González, & Silvia B. González-Brambila	25
Academics' perceptions of educational development in a changing higher education landscape Barbara Tam. & Kannass Chan	25

Projects and Trends

What if our schools are working?: Base, superstructure, and hegemony in education Alan Singer	26
Self-produced videos in flipped classroom for pre-course engineering students, engineering students and nursing students Joar Sande, Ingvild Leite, & Lars Kyte	26
Service-learning at university: Addressing social challenges from the education Elena M ^a Díaz-Pareja, Juana M ^a Ortega-Tudela, & África M ^a Cámara-Estrella	27
Fostering creativity of students with intellectual disabilities through music listening activities Marina Wai-Yee Wong	27
Developing domestic students' intercultural competence — a case study: Immersion program of Sichuan university, china Xianghan Liao	27
Digitalisation of higher education – teachers and students experience Marcin Fojcik, & Martyna K. Fojcik	28
Innovative use of ICT in early years curriculum based on 5E instructional model Christina Kalaitzi, & Christina Volioti	29
Augmented reality in intervention with people with autism spectrum disorder: protocol activities Alba Gilabert Cerdá, Eva García Albaladejo, Elena Pérez Vázquez, Gonzalo Lorenzo Lledó, Asunción Lledó Carreres, & Alejandro Lorenzo Lledó	29
The contemporary educational agenda _ education and reality Khalid Aada	30
Differences between traditional and augmented reality teaching Eva García Albaladejo, Alba Gilabert Cerdá, Asunción Lledó Carreres, Gonzalo Lorenzo Lledó, Alejandro Lorenzo Lledó, & Elena Pérez Vázquez	30
MOOCs for bridging the school - university gap Ilaria Merciai, & Ruth Kerr	31
Physiotherapist students' perceptions in a gamification project Carolina Jiménez-Sánchez, Pablo Gargallo-Aguaron, María Pilar López-Royo, & Fani Alfaro-Gervon	31
Is knowledge priceless? A case study on the changing face of education Joanna Peksa, & Faith Dillon-Lee	32
Catching two birds with one stone - the case of music and programming fundamentals Ilana Lavy	32
School principal leadership in rural South Africa: Challenges, experiences and opportunities Leentjie van Jaarsveld	33
Sustainable development indicators – a potential for enhancing environmental literacy Svatava Janoušková, Eva Stratilová-Urvalková, Hana Čtrnáctová, & Tomáš Hák	33
Teaching discourse analysis of the category of subject Marina Fomina	34

Interdisciplinary innovation camp for nursing and engineering students at WNUAS Eivind Standal Husabø, Dagrun Kyrkjebø, & Joar Sande	34
Glocality as instrument of cultural policy and its ability to preserve cultural capital Kamo Chilingaryan, & Ekaterina Zvereva	35
Communication revolutions that marked the history of education. Proverbs in education - theses and paradoxes Cezar Scarlat	35
Children with vision impairment and multiple disabilities: Issues of communication skills and professionals' challenges Vassilis Argyropoulos, Charikleia Kanari, Andrea Hathazi, Maria Kyriacou, Maria Papazafiri, & Magda Nikolaraizi	36
Today's higher education at a crossroads: Is the educator's role undergoing a paradigm shift? Cezar Scarlat	36
Special education teachers: Training and intervention strategies for internet risks of students with intellectual disabilities in Spanish centres Marcos Gómez-Puerta, Esther Chiner, Santiago Mengual-Andrés, & Esther Villegas	37
Dimensions of students' engagement and self-insight in upper secondary education Peter Grandits	38
Homeroom teachers' strategies of positive and negative disciplining of pupils with attention deficit disorder Nataša Vlah, Tena Velki, & Smiljana Zrilić	38
Learning five-grade mathematical Pi by computational thinking Yi-Jin Ju, Cheng-Hsuan Li, Pei-Chen Wu, & Shih-Yen Hung	39
Creating an interactive tool for student communication: Lessons learnt David Cutting, Andrew McDowell, Neil Anderson, Paul Sage, Matthew Collins, & Angela Allen	39
The characteristics of dialogue of teaching global competence through AutoTutor Chen-Huei Liao, Hsiang-Chun Wang, Bor-Chen Kuo, Kai-Chih Pai, & Pei-Chen Wu	40
Evaluation of immersion program from student' perspective in Sichuan University, China Yu Man	40
Learning fifth grade mathematical the central angle calculation of a circular sector of by computational thinking Yi-Jin Ju, Chih-Wei Yang, Cheng-Hsuan Li, & Pei-Jyun Hsieh	41
Life in the bonds of social exclusion as a disadvantageous factor of education Helena Skarupská, & Iva Staňková	41
Personalized learning in math, throw problem-solving, and the use of ICT Diana Starja, Nikolina Nikolova, & Bederiana Shyti	42
Enhancing student support through close-proximity progress monitoring Paul Sage, David Cutting, & Andrew McDowell	42
Ditch the plastic Trinidad & Tobago: The dynamics of a multi-sectoral school-community partnership Rowena Kalloo, & Shahiba Ali	43

Educational and therapeutic benefits of "content-focused accessible e-learning material" for visually impaired university students Chikako Ota	43
Teaching and Learning	
Analyzing experiences of using effective feedback in the ESL classroom through the use of digital technologies Roberto Mesén-Hidalgo, & Juan Carlos Sandí-Delgado	45
Fatherhood and being a father from the voices of single black fathers Quintin L. Robinson, & Shaylona Wheeler	45
The methodology of action research (AR) and the impact on teachers' professional development Michal Nachshon, & Amira Rom	46
Impact of maker-space project to provide computer science education to middle school students in the Alabama black belt region Linda P. Thurston, Martha Escobar, & Mohammed Qazi	46
Does parental involvement really make a difference? A study with parents of primary school students in urban context Raquel Barroso, & Diana Dias	47
Teacher and peer feedback in an EFL writing course: What do students need? Thanakorn Weerathai, & Ratsawadee Belardo	48
When it rains while the sun is shining: School climate as an echo of the (future) social climate Diana Dias, & Raquel Barroso	48
Digital engines at work: Promoting research skills in students Olga Suleimanova, Albina Vodyanitskaya, Vera Yaremenko, & Marina Fomina	49
Old techniques, new competences: Rebuilding historical instruments to teach and learn physics Ana Paula B. Silva, José Antonio F. Pinto, Samira Arruda Vicente, & Gerson Gonçalves	49
A systematic literature review of methodologies used for the design of serious games. A comparative analysis Juan Carlos Sandí Delgado, & Patricia Alejandra Bazán	50
Investigating factors hindering the implementation of e-learning at Motheo technical and vocational education and training (TVET) college: A case study of the national vocational certificate (NCV) programme Mmatau Zwane, & Wendy N. Setlalentoa	50
Bilingualism in the primary classroom: An advantage or a hindrance? Edina Kulenovic	51
The effects of drinking and smoking among undergraduates on academic performance and transition to employment Cheonsoo Park, & HwaChoon Park	52
First-year experience – the importance of personal development in students' perceptions of success Kannass Chan	52

The toiling single mother: Does her education attainment level matter in a learner's academic performance? Evidence from some South African high schools Ruth O. Adesokan, & Alfred H. Makura	53
An effective method of teaching English tense and aspect through time adverbs Chikako Takahashi, & Akemi Matsuya	53
The influence of mother tongue in second language learning in primary school <i>Pule Phindane</i>	53
Investigation on teaching critical thinking in English course to young ESL learners in China Shu Jia	54
Exploring student teachers' learning strategies and the relationship with academic achievement and demographic variables Esther Chiner, Marcos Gómez-Puerta, & María Cristina Cardona-Moltó	54
Nature of science interdisciplinary teaching based on symmetry and the search of invariants Simone Brasili, & Riccardo Piergallini	55
An assessment of curriculum-specific learning difficulties in natural sciences within the South African context Mafor Penn, & Ramnarain Umesh	55
Visual literacy for the 21st century: The required ability to understand the power of modern images Bozena Supsakova	56
A cloud in a cupboard: How to teach modern technologies in a resource-constrained environment David Cutting, Andrew McDowell, Neil Anderson, Paul Sage, Matthew Collins, & Angela Allen	56
Early year teachers' understanding and implementation of science process skills Ayodele Ogegbo, & Umesh Ramnarain	57
The relevance of leadership styles in the quality of early childhood educators: A multiple cases study Emilio Rodríguez-Ponce, & Liliana Pedraja-Rejas	57
Drawing vs. design: A study on industrial design BSC in Italy Fausto Brevi, & Flora Gaetani	58
Development of an animated video for pre- and postoperative learning for osteoarthritis patients Erik Kylén, Joel Stenholm, & Ann Svensson	58
Organizational Issues	
EHEA international students mobility and transparency Tijmen Weber, Florentin Popescu, & Roman Iskandaryan	60
Research on the causes of the "undergraduate migrant worker" phenomenon based on the theory of labor market segmentation Yuheng Zhang	60

The evolution of china's private education policy: Historical review and path analysis Yang Li	61
Teachers' opinions on professional support measures for novice teachers in Latvia Anda Grinfelde, Inga Vanaga, & Liga Paula	61
Employer branding as recruitment and retention tool for the universities Asta Radzevičienė, & Aleksandra Sokolova	62
Analysis of Chinese policy of tuition-free normal college students: purpose, content and effect Xue Yuankang	62

POSTERS

<u>Teachers and Students</u>	
Teaching practices that include all students: recommendations from faculty members who develop an inclusive pedagogy Anabel Moriña, Inmaculada Orozco, Víctor H. Perera, & Ana Domenech	65
Faculty members' actions for an inclusive pedagogy in health sciences classrooms María-Dolores Cortés-Vega, Ruth Cabeza, Carmen Márquez, Almudena Cotán Fernández, Yolanda Spínola, & Rafael Carballo	65
Subject teachers and enhancement of students' English proficiency in selected senior six classrooms in Rwanda Speciose N. Ndimurugero, & Gloriose Mugirase	66
The effects of local-specialized career experience programs on Korean students' career maturity and community awareness HwaChoon Park, & JangHoe Ku	67
Projects and Trends	
Students with disabilities in social and law classrooms: Key aspects for the best faculty members Rosario Lopez-Gavira, Nieves Sanchez, Beatriz Morgado, Victor M. Molina, & Arecia Aguirre	68
Active methodologies and aware education for future secondary schools teachers Consolacion Gil, & Maria Dolores Gil-Montoya	68
A systematic scoping review on skills variety for vet in the industry 4.0 Francesco Tommasi, Ioris Franceschinis, Marco Perini, & Riccardo Sartori	69
Teaching and Learning	
Mathematics in agricultural studies Janina Kaminskiene	70
ICT competencies of first-year university students Daiva Rimkuvienė	70
Eugenics today: An interdisciplinary teaching for higher education Andreas-Evangelia Spathi, Afroditi Kalemi, Athina Kontostavlaki, Evridiki Efstathiou, & Lefkothea-Vasiliki Andreou	71
Building integrated pathways to independence for diverse biomedical researchers: Project pathways Maryam Foroozesh, Kathleen Morgan, Marguerite Giguette, Kelly Johanson, & Clair Wilkins-Green	71
Brain music: Introducing research thinking to the secondary education curriculum Athina Malliou, Spyretta Vaxevanidi, & Lefkothea-Vasiliki Andreou	72

73

AUTHOR INDEX

CZECH CURRICULAR REFORM IN THE REAR-VIEW MIRROR: THE CASE OF FOREIGN LANGUAGE LEARNING

Pavel Brebera

Language Centre, University of Pardubice (Czech Republic)

Abstract

The aim of the paper is to present some insights into the long-term effects of the Czech curricular reform, which was carried out at primary and lower-secondary level of educational system in the second half of the previous decade. The author combines two relevant perspectives. The first viewpoint is represented by referring to the outcomes of the author's own longitudinal empirical research, which was carried out within the years 2004-2007. The aforementioned study was focused on analysing the particular dimension of English language teachers' professional competence in relation to the proclaimed goals of the upcoming curricular reform. The second perspective intends to provide a valuable complementary picture as it is based on the analysis of "language learning stories", expressed by the current university students, i.e. the addressees of the previous curricular reform. This small-scale empirical investigation was carried out via a content analysis of the students' reflections on their prior learning experience. The arising categories of qualitative data are interpreted with regard to the main principles of the curricular reform, and discussed in terms of some potential ways of dealing with the issues of the university students' previous language learning experience.

Keywords: English language learning, university students, teacher professional competence, curricular reform.

BASIS OF ARCHITECTURAL SURVEY BETWEEN GEOMETRY AND REPRESENTATION. A FIRST EDUCATIVE APPROACH

Eugenia Comparetto¹, Martino Pavignano¹, Ursula Zich¹, Ornella Bucolo², & Daniela Miron²

¹Department of Architecture and Design, Politecnico di Torino (Italy)

²LabRilDoc, Department of Architecture and Design, Politecnico di Torino (Italy)

Abstract

This paper illustrates the educative path – aimed at learning the basis of architectural survey – we propose to the students in the first year, as part of the Drawing and Survey Laboratory (bachelor's degree in Architecture). The primary focus of the Laboratory is to guide them in studying and using the graphic languages and related fundamental tools. In this case, architectural survey comes as a cognitive tool of fundamental importance for the analysis and understanding of architectural artefacts. The main objective of the exercises carried out during the Laboratory is to prepare student by a gradual theoretical and technical path for the direct and indirect operations of survey. During the first semester the course includes a first operation of surveying an architectural drawing (during the exercise of critical redraw of a published project), giving birth to an ideal scalar approach to the themes of survey, both manual (direct survey) and digital (PR, SfM), which combines and develops horizontal and vertical skills. Here, we discuss the main passages of the path of survey through an emblematic case study from Torino.

Keywords: Architectural drawing and survey, architectural education, integrated architectural survey, architectural heritage, process of knowledge.

CREATING AUTHENTIC LEARNING AND ASSESSMENT ENVIRONMENTS

Katerina Kasimatis¹, & Theodora Papageorgiou²

¹Department of Education, Professor, School of Pedagogical and Technological Education (Greece)

²Department of Education, Lab. Teacher, School of Pedagogical and Technological Education (Greece)

Abstract

The aim of this study is to investigate how the concept of "authentic learning" and "authentic assessment" is formed in the discourse of education executives. Authentic learning is based on the theory of social constructivism, according to which the social nature of knowledge is emphasized and the learner builds knowledge by creating meaningful authentic activities. Authentic assessment is described as a dynamic