



Draft Conference Programme

17- 18 March 2022



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Thursday 17 March

Room A 9:30– 10:45	Room B 9:30– 10:45
Teaching Methodologies	Studies in Science Education

Coffee Break 10:45-11:15

Room A 11:15-12:55	Room B 11:15-12:55
Teaching Methodologies	Enhancing Students' Engagement

Lunch 12:55-14:30

Room A 14:30 – 16:35
Teaching Methodologies

Coffee Break 16:35 – 17:00

Room A 17:00 – 18:00
Educating pre- Service Teachers

Friday 18 March

Room A 9:10 – 11:15
Studies on Science Education

Coffee Break 11:15 – 12:00

Room A 12:00 – 12:50
Science Education in Tourism and Project

Lunch 12:50 – 14:30

Room A 14:30 – 15:45
Science and Environment

Coffee Break 15:45 – 16:20

Room A 16:20 – 18:00
Workshops



Thursday 17 March 2022

Morning Session: 9:00 – 13:00

Room A 9:00 – 9:10	Introductory Speech and Practicalities
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Room A: Opening Speech 09:10 – 09:30
Scientific Practice and The Knowledge Machine: How to Educate Science? <i>Edwin Koster Vrije Universiteit Amsterdam (The Netherlands)</i> onsite

Room A 9:30 – 10:45	Room B 9:30 – 10:45
Teaching Methodologies	Studies in Science Education
Reframing the Teaching of Climate Change Through Empathy and Social Innovation <i>Michael Taber, Colorado College (United States)</i> onsite	Multicultural Students' Perceptions of Scientists and Science <i>Mary Kelly, Irish College of Humanities and Social Sciences (Ireland)</i> online
Experiences in Teaching Science for Children to Adults <i>Beata Jarosievitz, Dennis Gabor College (Hungary)</i> online	The impact of Cultural Dimensions on Science Learning among Male Students Attending Public Schools in Kuwait <i>Fatimah Alhashem Gulf University for Science and Technology (Kuwait)</i> onsite
Learning how to Deal with Mindsets behind Algorithms <i>Edwin Koster, Vrije Universiteit Amsterdam (The Netherlands)</i> onsite	The Cooperative Management of the Curriculum: a Case of Study <i>Maria da Conceição Figueira Santos Pereira, Instituto Politécnico de Lisboa (Portugal)</i> <i>Filipa Almeida, Park International School, Portugal (Portugal)</i> online

Coffee Break 10:45-11:15

Room A 11:15 – 12:55	Room B 11:15 – 12:55
Teaching Methodologies	Enhancing Students' Engagement
Pedagogical Pathway to Enhance Science Identity in Disadvantaged Males <i>Veronica McCauley, National University of Ireland Galway (Ireland)</i> <i>Paul Flynn, National University of Ireland Galway (Ireland)</i> onsite	Outcome-Based Education: an Active Learning Project of Current Topics for Special Project <i>Kittitach Sumpowthong, Jazz Studies Program, Faculty of Music, Silpakorn University, Bangkok Thailand (Thailand)</i> online
A Climate Academy in a European Secondary School New Pedagogical Strategy for Climate Education <i>Nicolas Duquenne, Tereza Epps, European School of Brussels 2 (Belgium)</i> onsite	Active Learning Strategies to Enhance Student Motivation and Engagement in Online Courses <i>Florentina Halimi, Gulf University for Science and Technology (Kuwait)</i> <i>Rina Halimi, University of Vienna, Austria (Austria)</i> online
Physics Teaching of Abstract Phenomena in Preschool Supported by Computer Tablets <i>Andreas Redfors, Kristianstad University (Sweden)</i> onsite	What Can Educators Learn from Social Game Design in University Online Teaching? <i>Nina Schmulius, University of Applied Sciences of the Grisons (Switzerland)</i> <i>Tobias Schmohl OWL Technical University of Applied Sciences and Arts (Germany)</i> online
Primary School Students' Ideas of the Day/Night Cycle and alteration of Seasons: An Exploration of Inconsistencies in Students' Responses <i>Nikolaos Fotou, University of Lincoln (United Kingdom)</i> onsite	Practical Engineering Theses under Pandemic Conditions: Challenges and new Approaches <i>Lina Schulze-Buxloh FH Aachen University of Applied Sciences (Germany)</i> online

Lunch 12:55-14:30



Thursday 17 March 2022

Afternoon Session: 14:30 – 17:30

Room A 14:30 – 16:35

Teaching Methodologies

Why do students fail to Learn and Use Central Science Concepts or Simple Mathematical Notions? When Associations Dominate Reasoning.

Jean-Pierre Thibaut, University of Bourgogne Franche-Comté (France)

onsite

Use of Online Educational Videos for Concept-oriented Peer-based Learning

Sherif Abdelhamid, Assistant Professor, Virginia Military Institute (United States)

online

No Man Is an Island, Neither Practical Work Is: A Case Study into Undergraduate Life Sciences

Marina Constantinou, University of Lincoln (United Kingdom)

online

An Analysis of the Science Curriculum in Turkey in the Context of Engineering and Design Skills

Murat Demirbas, Kirikkale University (Turkey)

online

How Gamification Impacts Physics?

Marija Gaurina, University of Split, Faculty of natural sciences and mathematics (Croatia)

Patricija Nikolaus, University of Split, Faculty of Science (Croatia)

online

Coffee Break 16:35 – 17:00

Room A 17:00 – 18:00

Educating Pre-service Teacher

Pre-service Teachers' Preparedness to Use Digital Tools in their Teaching using the Example of Laboratory Simulations

Elizabeth Watts, Friedrich Schiller Universität Jena (Germany)

online

Educating Preservice Teachers to Introduce Educational Robotics into their Future Preschool Classroom.

Michail Kalogiannakis, University of Crete, Department of Preschool Education, Crete (Greece)

Stamatios Papadakis, University of Crete, Department of Preschool Education, Crete (Greece)

online

End of Conference Day One



Friday 18 March 2022

Morning Session: 9:10 – 12:30

Room A 9:10 – 11:15

Studies on Science Education

Maltese Post-Secondary Lecturers' Views on the Nature of Science

Rachel Pace, St Ignatius College (Malta)

Martin Musumeci, University of Malta (Malta)

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Lifelong Education at the Time of COVID-19 Pandemic: an Analysis of Participants' Perception

Ombretta Pediconi, Istituto Zooprofilattico Sperimentale dell'Abruzzo e del Molise (IZSAM) (Italy)

online

The Use of Analogies in Biology and Chemistry at Secondary School Level

Sarah Farrugia, Our Lady Immaculate School (Malta)

Martin Musumeci, University of Malta (Malta)

onsite

Reports and Suggestions on Physical and Mathematical Thinking- Expressions and Understanding in Japanese Engineering College Students

Miyori Shirasuna, National Institute of Technology, Tsuruoka College (Japan)

online

Developing Students' Competencies of Reading Hypertext in Legal Language and Translation Studies.

Natalie Udina, RUDN University (Russian Federation)

online

Coffee Break 11:15-12:00

Room A 12:00 – 12:50

Science Education in Tourism and Project

Tourism Students' Experience of Emergency Remote Teaching Due to COVID19 Pandemic: a contribution to educational sciences

Sónia Pais, Polytechnic Institute of Leiria (Portugal)

Ana Elisa Sousa, Polytechnic Institute of Leiria (Portugal)

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Emergency Remote Teaching and the Adoption of Digital Technologies in Higher Education - The Case of a Portuguese Tourism Science Faculty

Ana Pires, Polytechnic Institute of Leiria (Portugal)

Sónia Pais, Polytechnic Institute of Leiria (Portugal)

Laura Chagas, Polytechnic Institute of Leiria (Portugal)

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Lunch 12:50 – 14:30



Friday 18 March 2022
Afternoon Session: 14:30 – 18:15

Room A 14:30 – 15:45

Science and Environment

A Climate Academy in a European Secondary School New Pedagogical Strategy for Climate Education

Nicolas Duquenne, European School of Brussels 2 (Belgium)

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Introducing Complexity Science in Higher Education for Preparing the New Generations to be Aware and Promote a Sustainable Future.

Pier Luigi Gentili, University of Perugia (Italy)

online

The Blue Economy: Food Waste Valorisation

Cristina Vilaplana-Prieto University of Murcia (Spain)

online

Coffee Break 15:45 – 16:20

Room A 16:20-18:00

Workshops

Teaching Science through Student-Oriented Tools: the Golden Ratio Teaching European Project

Antonio Giordano, Pixel Conferences (Italy)

onsite

Rethinking Science Communication on Media: the RTV European Project

Antonio Giordano, Pixel Conferences (Italy)

onsite

End of the Conference



Virtual Presentations

(Available on the Conference Website)

<p>A Study on the Effectiveness of Comment Writing Instruction in Peer Evaluation Activities <i>Hiroshi Iid, Tenryu High School, Shizuoka Prefecture (Japan)</i></p>	<p>PBL Intervention Using a Socioscientific Issue in a Biology Didactics Course <i>Cristina Sousa, Faculdade de Ciências, Universidade do Porto (Portugal)</i></p>
<p>A Study on the Effectiveness of Comment Writing Instruction in Peer Evaluation Activities <i>Noriaki Kumada, Nishinasuno Lower Secondary School, Nasushiobara (Japan)</i></p>	<p>Photodegradation of Riboflavin – Model Experiments on Photo Processes in Chemistry Classes <i>Thomas Waitz, Georg-August-University Göttingen (Germany)</i></p>
<p>About the Importance of Experiments and Practical training that Are Conscious of the Five Senses and Practical Examples <i>Mika Tsuyukubo, Toyo University (Japan)</i></p>	<p>Popularization of the Educational Programs of the Cultural Institutions in Bulgaria <i>Svetoslava Dimitrova, University of Library Studies and Information Technologies (Bulgaria)</i></p>
<p>Adaptation of the Cultural Institutions in Bulgaria to the New Reality - Practice from Social Networks <i>Svetoslava Dimitrova, University of Library Studies and Information Technologies (Bulgaria)</i></p>	<p>Practice and Study of Learning to Incorporate Instruction on Formulation of Consideration Description Under Peer Evaluation Activity: Focusing on Scientific Expression in Description of Consideration <i>Shinya Yamauchi, Graduate School of Education, Shizuoka University (Japan)</i></p>
<p>Attracting Women into STEM Studies – Girls Camps for School Students <i>Mona-Christin Maaß, Georg-August-University Göttingen (Germany)</i></p>	<p>Research on Learning to Improve Skills of Scientific Inquiry and to Cultivate Scientific Wisdom <i>Kenichi Goto, Toyo University (Japan)</i></p>
<p>Digital Learning Communities as Coherent Learning-to-Teach Fields <i>Philipp Engelmann, Friedrich Schiller University Jena (Germany)</i></p>	<p>Speed, Meth and MDMA - Results of a School-Based Intervention Study <i>Theresa Jünger, Friedrich Schiller University Jena, Chemistry Education Department (Germany)</i></p>
<p>Electrochemical Surface Modification of Titanium in Chemistry Class <i>Philipp Lanfermann, Georg-August-Universität Göttingen (Germany)</i></p>	<p>Study on Training Teachers Who Continue to Learn Proactively <i>Yorikazu Nouchi, National Institute for Educational Policy Research (Japan)</i></p>
<p>Evaluation of Inquiry Science to Motivate Students to Learn <i>Yoriko Ikuta, Nara Prefectural Seisho Junior and Senior High School, Japan (Japan)</i></p>	<p>The need to bring up social-emotional competence in learning instruction <i>Atsushi Fujihira, Nihon University (Japan)</i></p>
<p>Impact of an Educational Proposal on the Knowledge about Plastics and their Contamination in Grade-8 Students. <i>MariadelMar López-Fernández, Science Education. University of Granada (Spain)</i></p>	<p>The Significance of Inquiry-based Learning of IB programme from the Perspective of Active Learning <i>Tomomi Samejima, Tokyo Gakugei University International Secondary School (Japan)</i></p>
<p>Intercultural Cooperation at Library and Information Science via Students Symposiums BOBCATSSS <i>Tania Todorova, State University of Library Studies and Information Technologies (SULSIT) (Bulgaria)</i></p>	<p>The Self-regulation Processes of Student Learning in th Autonomous Study Time <i>Filipa Almeida, Park International School, Portugal (Portugal)</i></p>
<p>Increasing Recruitment and Retention of Minority Participants in STEM Fields <i>Diane Boothe, Boise State University (United States)</i> <i>Melissa Caspary, Georgia Gwinnett College (United States)</i></p>	<p>Visualization of an Electrolysis Process using Augmented Reality <i>Hilko Aljets, Georg-August-University Göttingen (Germany)</i></p>
<p>Lessons from Experience: Student Satisfaction About Remote Modality Adaptation of a Chemistry Course <i>Patricia Morales Bueno, Department of Science, Pontificia Universidad Católica del Perú PUCP (Peru)</i></p>	<p>What Pre-Service Chemistry Teachers Know About Stem Education Methodology <i>Agata Augustinovič Augustinovič, Vytautas Magnus University (Lithuania)</i></p>
<p>Online Language Instruction with Meaning-Making Track <i>Elena Stakanova, Southern Federal University (Russian Federation)</i></p>	<p>The InCreaProject: Enhancing Inclusion and Wellbeing in Secondary Education <i>Anca ColibabaGR. T. Popa University / EuroED Foundation (Romania)</i></p>



Onsite Poster Presentations

<p>Animating the Intermediate: Design and Evaluation of a Dynamic Multimedia instructional format for the Aldol Reaction <i>Christoph Bley, Friedrich Schiller University Jena, Chemistry Education Department (Germany)</i></p>	<p>Hydrogen Evolution with Sunlight: A Simple Experiment for School Chemistry Education <i>Malte Petersen, Friedrich Schiller University Jena, Institute for Inorganic and Analytical Chemistry, Chemistry Education Department, Germany (Germany)</i></p>
<p>Mixed-age Chemistry Classes: Conception and Realization of Inter-grade Experimentation Sets in the Context of the Reform Pedagogy according to Maria Montessori <i>Marcel Simon, Friedrich Schiller University Jena, Chemistry Education Department (Germany)</i></p>	<p>Nanomedicine: Development of a series of experiments for the synthesis of smart nanocarriers <i>Antonia Fruntke, Friedrich Schiller University Jena, Institute for Inorganic and Analytical Chemistry, Chemistry Education Department, Germany (Germany)</i></p>
<p>Photoprocesses in Chemistry Education – Tracing Photochemical Reactions with a Digital Low-cost Photometer <i>Manuel Wejner, Friedrich Schiller University Jena, Chemistry Education Department (Germany)</i></p>	<p>Reimagining Student Laboratories: Creating a Digitalized Chemistry Lab <i>Nicolai ter Horst, Friedrich Schiller University Jena, Chemistry Education Department (Germany)</i></p>
<p>Synthesis and Analysis of Nanoparticles with the low-cost Measuring System LabPi <i>Björn Bartram, Friedrich Schiller University Jena, Chemistry Education Department (Germany)</i></p>	<p>Strategies and Methods for Improving Understanding of Advanced Concepts in Introductory Nanotechnology Course <i>Daniela Topasna, Virginia Military Institute (United States)</i></p>

Online Poster Presentations

(Available on the Conference Website)

<p>Adherence to Therapy in the Digital Age: Investigating Patients' Adherence and Digital Skills for a Targeted Assessment <i>Sabrina Grigolo, Project Manager ASLTO3 (Piedmont Region) - Expert Patient 3 Course (Eupati)nPhD Student in Science Education - University of Turin (Italy)</i></p>	<p>STEM Nanoscience with IBSE Interdisciplinary Methodology in Innovative Teaching and Learning <i>Marina Minoli, National Biologists Order, STEM DidalInnovaBiolab, Royal Society of Biology (Italy and UK)</i></p>
<p>Implementation of Interrupted Case Studies in Science Communication <i>Mikeas Silva De Lima, University of São Paulo (Brazil)</i></p>	<p>A Preliminary Study on Perceptions of Critical Thinking Skills in Undergraduate and Graduate Engineers <i>María-José Cano-Iglesias, Departamento de Ingeniería Civil, de Materiales y Fabricación, Universidad de Málaga (Spain)</i></p>
<p>Pilot Study of Biochemistry Education and Career Development <i>Lo Fai Hang, The Chinese University of Hong Kong (China)</i></p>	<p>Question Design using Misconception in Meteorological Disaster Prevention Education <i>Tetsuhide Shigeno, Ryukoku University (Japan)</i></p>

International Conference New Perspectives in Science Education



Conference Secretariat
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Tel: +39 055 489 700

E-mail: science@pixel-online.net

Website: <http://conference.pixel-online.net/NPSE>