



SMC “SCIENTIA EDUCOLOGICA”, LITHUANIA

The associated member of Lithuanian Scientific Society and the association of Lithuanian Serials

**4<sup>th</sup> International Baltic Symposium on Science and Technology Education  
BalticSTE2021  
(Online)**

**“SCIENCE AND TECHNOLOGY EDUCATION: DEVELOPING  
A GLOBAL PERSPECTIVE”**

21-22 June 2021

**SYMPORIUM PROGRAMME**



Šiauliai, Lithuania

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## **Symposium Website & E-mail**

<http://balticste.com> [balticste@gmail.com](mailto:balticste@gmail.com)

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## SUNDAY

20 June 2021

17.00 - 19:00

### TESTING VIRTUAL ROOM

On the 20th of June 2021 we will be testing Virtual Room and we encourage all to follow a try between 17.00-19.00 LT time (UTC+3, Eastern European Summer Time).

## Monday

21<sup>st</sup> June 2021

9:45 - 10:00

### MEET-AGAIN-AND-GREET (ONLINE)

Lithuania in 4 Minutes and a Welcome Speech

10:00-12:00

### PLENARY MEETING 1

No.	Presentation time	Speakers Name and Surname Entity/Academy represented	Topic of presentation	
1.	10:00 – 10:45	<b>PAUL PACE</b> University of Malta, Malta	THE SUSTAINABLE DEVELOPMENT GOALS: MAKING SCIENCE AND TECHNOLOGY GLOBALLY RELEVANT	
	10:45-11:00	Questions & Answers		
2.	11:00 – 11:45	<b>PAOLO BUSSOTTI</b> University of Udine, Italy	A NEW PERSPECTIVE ON MATHEMATICS EDUCATION COMING FROM HISTORY: THE EXAMPLE OF INTEGRAL CALCULUS	
	11:45-12:00	Questions & Answers		

12:00-12:30



### COFFEE BREAK

12:30-17:15

### SESSION 1

No.	Presentation time	Speakers Name and Surname Entity/Academy represented	Topic of presentation
1	12:30-13:00	<b>NYET MOI SIEW</b> University Malaysia Sabah, Malaysia	Mentor-Mentee outreach program: Revitalizing STEM education in rural secondary schools
2.	13:00-13:30	<b>LETTAH SIKHOSANA</b> University of South Africa, South Africa	The development and implementation of the sustainable intervention strategies for solid waste management in primary schools: A case of Nkangala

			district, Mpumalanga province
3.	13:30-14:00	<b>SAŠA HORVAT</b> University of Novi Sad, Serbia	Procedure for assessment of the cognitive complexity of the problems with a limiting reactant
4.	14:00-14:30	<b>ILVA CINITE, GIRTS BARINOVS</b> University of Latvia, Latvia	Increased student performance on physics concept inventory test after student-centred instructions in universities of Latvia
5.	14.30-15:00	<b>YI WEN LO, CHIH-HSIUNG KU</b> National Dong Hwa University, Taiwan	Exploring the effectiveness and impacts of using different media to learn science
15:00-15:30		Coffee break	
6.	15:30-16:00	<b>ANGELA JAMES</b> University of KwaZulu-Natal, South Africa	How COVID-19 was an enabler for Biological Sciences pre-service teachers' Service-Learning projects
7.	16:00-16:30	<b>TODAR LAKHVICH</b> Belarusian State Medical University, Belarus	Improvement of the Course Design: Graph-Theory Based Approach in the Case of Organic Chemistry
8.	16:30-17:00	<b>ROSELIN NYABOKE</b> The University of Toledo, USA	Examining the Use of Scientific Modeling by the Graduate Teachers in a Science Methods Course
9.	17:00-17:15	<b>YOON FAH LAY</b> University Malaysia Sabah, Malaysia	Secondary students' interests, attitudes, values, and priorities in science and technology-related issues: Evidences from the Malaysian Relevance of Science Education (MROSE) study in Sabah, Malaysia
10.	17:15-17:30	<b>MICAÍAS A. RODRIGUES</b> Federal University of Piauí, Brazil	Challenges for teacher education in pandemic times
17:30-17:45		Summary & Closing	

**TUESDAY**  
**22<sup>nd</sup> June 2021**

**9:45-10:00**

**MEET-AGAIN-AND-GREET (ONLINE)**

**10:00-12:00**

**PLENARY MEETING 2**

No.	Presentation time	Speakers Name and Surname Entity/Academy represented	Topic of presentation
1.	10:00-10:45	<b>MAŁGORZATA NODZYŃSKA</b> Pedagogical University of Cracow, Poland	<u>CHEMICAL VS. NATURAL: COMMON MISCONCEPTIONS</u>
10:45-11:00		Questions & Answers	

2.	11:00-11:45	<b>PETER DEMKANIN</b> Comenius University in Bratislava, Slovakia	COGNITIVE PROCESSES IN THE THEORY OF PHYSICS EDUCATION
	11:45-12:00		Questions & Answers

**12:00-12:30**



**COFFEE BREAK**

**12:30-18:15**

## **SESSION 2**

No.	Presentation time	Speakers Name and Surname Entity/Academy represented	Topic of presentation
1	12:30-13:20	<b>ANTUNI WIYARSI</b> Yogyakarta State University, Indonesia	Students' motivation and chemical literacy on context-based learning: A case of chemical bonding topic
2.	13:20-13:40	<b>DUŠICA RODIĆ</b> University of Novi Sad, Serbia	To what extent do students rely on an algorithmic approach to quantitative problem-solving in chemistry?
3.	13:40-14:00	<b>NAFAA CHBILI</b> United Arab Emirates University, UAE	Best practices for geometry teaching and learning
4.	14:00-14:20	<b>TEREZA HROUZKOVÁ, LUKÁŠ RICHTEREK</b> Palacký University Olomouc, Czech Republic	Lawson classroom test of scientific reasoning at entrance university level
5.	14:20-14:40	<b>NARENDRA DESHMUKH</b> Homi Bhabha Centre for Science Education, TIFR, India	The effective use of technology in classrooms for implementing remedial modules to overcome students' misconceptions
6.	14:40-15:00	<b>MARKÉTA BARTOŇOVÁ, DANA KRIČFALUŠI</b> Charles University, Czech Republic	Worksheets for integrated science
	15:00-15:20	Coffee break	
7.	15:20-15:40	<b>RITA BIRZINA, DAGNIJA CEDERE</b> University of Latvia	Students' readiness for Massive Open Online Courses (MOOCs) in Latvia
8.	15:40-16:00	<b>MIHAEL CALALB</b> Tiraspol State University, Moldova	Assumption of cognitive goals in science learning
9.	16:00-16:20	<b>KALLE SAASTAMOINEN, ANTTI RISSANEN</b> National Defence University of Finland, Finland	Technology majors' methodology education – comparison of two course approaches
10.	16:20-16:40	<b>KAREL KOLÁŘ</b> Prometheus, spol. s r. o., Czech	Overview of participation in correspondence competitions (of CZE and SVK) in recent years with

		<b>Republic</b>	a discussion of possible positive and negative effects of COVID-19
11.	16:40-17:00	<b>ONDREJ VENCALEK</b> Palacky University Olomouc, Czech Republic	How to motivate high school students to study statistics
12.	17:00-17:20	<b>KĀRLIS GREITĀNS, DACE NAMSONE</b> University of Latvia, Latvia	In-service science teachers' professional development targeted to promote student conceptual understanding: A review study
13.	17:20-17:40	<b>POLONA LEGVART, METKA KORDIGEL ABERŠEK, MAJA KERNEŽA</b> University of Maribor, Slovenia	Primary students' natural science digital literacy competence in digital learning environments

17:40-18:00

## DISCUSSION



18:00-18:15

## SYMPOSIUM CLOSING



### *What Do We Do NEXT?*



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BalticSTE '21

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