







Thursday, 11 May 2023	
08:30 - 09:30	<p>Conference Registration <i>Central Hall</i></p>
09:30 - 10:00	<p>Welcome & Opening Michiel Doorman Conference Chair, Utrecht University, Netherlands Daniëlle Meuleman Local organizing committee, Naturalis Biodiversity Center, Leiden, Netherlands Marianne Benning Vereniging van Wetenschapsmusea en Science Centers, Netherlands <i>Auditorium</i></p>
10:00 - 10:45	<p>Learning our way out of systemic global dysfunction: rethinking STEM education in the Capitalocene <i>Auditorium</i></p> <p>Arjen Wals Wageningen University, The Netherlands</p>
10:45 - 11:00	<p>Short Break (find your way to the meeting rooms)</p>

<p>Round One</p> <p>11:00 - 12:00</p>	<p>MOST Policy Seminar Auditorium</p> <p><i>Note: This meeting will take 75 minutes instead of 60 minutes.</i></p>				
	<p>Workshops (Session 1)</p>				<p>Paper presentations (Session 1)</p>
	<p><i>W1 Toen</i> chair: Christine Knippels</p> <p>Sustainability Education Movement for network leaders with the CARE-KNOW-DO Open Schooling Framework Alexandra Okada & Peter Gray</p>	<p><i>W2 Nu</i> chair: Monica Wijers</p> <p>Roles, Practices and Competencies of STEM-Teacher Educators Sarah-Maria Rotschnig & Stefan Zehetmeier</p>	<p> <i>W3 Ontwerp</i> chair: Jesper Boesen</p> <p>Minecraft: Education Edition as a tool for PBL in STEM Konstantinos Roumpas & Gkogkas Grigoris</p> <p><i>Note: bring a laptop or tablet.</i></p>	<p> <i>Outdoor/Entrance</i> chair: Vincent Jonker</p> <p>Nature-based School Yard Safari Marian Joven & Mart Ottenheim</p> <p><i>Notes: meet at museum's main entrance & this workshop takes 90 minutes.</i></p>	<p><i>Live Science</i> chair: Sanne Korte</p> <p>Development of STEM Education in KUSH: Task Design for Inquiry-Based Learning through Lesson Study Minoru Ohtani</p> <p>Analysing the Perception of Families of an Open School-community Project on Climate Change Julia Gracia (et al.)</p>
12:00	<p>Lunch Auditorium</p>				
12:45 - 13:30	<p>Interactive Poster Gallery & Materials Market Live Science & Auditorium</p> <p><i>(incl. spotlight pitch in Live Science: Liselotte Rambonnet on her Plastic Spotter project)</i></p> <p><i>Note: This session will start at 12:45.</i></p>				
13:30 - 14:15	<p>School-community Projects as Keys to Sustainability Education in the STEM Domains Auditorium</p> <p>Marta Romero Ariza MOST project & University of Jaén, Spain Katja Maaß MOST project & ICSE at the University of Education Freiburg, Germany</p>				

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<p>Round Two</p> <p>14:30 - 15:30</p>	<p>Workshops (Session 2)</p>			<p>Paper presentations (Session 2A)</p>	<p> Paper presentations (Session 2B)</p>
	<p> W1 Toen chair: Christine Knippels</p> <p>Drawing on Drawing for Competence in Teaching Sustainability Helena Bichao & Jardar Cyvin</p>	<p> W2 Nu chair: Martin Bilek</p> <p>Girl empowerment in STEM education by means of Summer Camps Josette Farrugia (et al.)</p>	<p>W3 Ontwerp chair: Maria Evagorou</p> <p>Teaching the Educators Mart Ottenheim (et al.)</p>	<p><i>Auditorium</i> chair: Jesper Boesen</p> <p>PATIS BIODIVERS: Engaging elementary students in authentic inquiry to improve the biodiversity of their schoolyard Arnau Amat & Chadia Rammou</p> <p>MOST: Science Fairs Through Virtual Environments Gokhan Kaya (et al.)</p> <p>STEM Education through Real Life Contexts and Sustainability Issues: the teach4life case in Spain Marta Romero Ariza (et al.)</p>	<p><i>Live Science</i> chair: Ragnhild Staberg</p> <p>Teacher Leadership Arthur Eisenkraft</p> <p>MicroMundo: Service-learning Project on Antimicrobial Resistance Beatriz Robredo (et al.)</p> <p>How do the CriThiSE PD-model Support Teachers in Implementing Critical Thinking in Sustainability Education at Upper Primary School? Ragnhild Staberg (et al.)</p>
<p>15:30 - 16:00</p>	<p>Coffee, tea & no-waste cake & welcome SCP members (Auditorium)</p>				

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<p>Round Three</p> <p>16:00 - 17:30</p>	<p align="center">Workshops (Session 3)</p>			
	<p align="center"><i>W1 Toen</i> chair: Oliver Straser</p> <p align="center">Educational Escape Games <i>Rahel Brugger (et al.)</i></p>	<p align="center"><i>W2 Nu</i> chair: Annette Lykknes</p> <p align="center">A Key-competence Approach to Teaching Standard Topics in STEM <i>Michiel Doorman (et al.)</i></p>	<p align="center"><i>Room 10</i> chair: Sanne Korte</p> <p align="center">MOST Fair <i>Ragnhild Staberg, Monica Wijers, Sanne Korte, Lucas Weinberg (et al.)</i> <i>Note: the fair will be open until 18:15</i></p>	<p align="center"><i>Outdoor</i> chair: Vincent Jonker</p> <p align="center">The Earth is (y)our Classroom <i>Loes Van 't Hoff & Marian Joven</i> <i>Note: meet at museum's main entrance</i></p>
	<p align="center">Paper Presentations (Session 3A)</p>	<p align="center">Paper Presentations (Session 3B)</p>	<p align="center">Paper Presentations (Session 3C)</p>	<p align="center">Paper Presentations (Session 3D)</p>
<p align="center"><i>Auditorium</i> chair: Maria Evagorou</p> <p>How outdoor learning can support STEM and sustainability education in initial teacher training <i>Christina Wolf & Luana Monti Jermini</i></p> <p>FLEBOCOLLECT: A Stem Education and Citizen Science Project <i>Ángela Bermejo (et al.)</i></p> <p>Hands-on Commodity Science <i>Susanne Gruber</i></p>	<p align="center"><i>Atelier</i> chair: Martin Bilek</p> <p>Educating the educators: an innovative M.Ed. program in Integrative STEM Education incorporating open schooling principles <i>Noa Ragonis (et al.)</i></p> <p>Involving Different Stakeholders in the Process of Designing, Implementing, and Evaluating a TLS about Air Pollution <i>Èlia Tena (et al.)</i></p> <p>The Fieldwork Concept in STEM Education: International students' perspectives and expectations before an Erasmus+ course about climate change <i>Jardar Cyvin (et al.)</i></p>	<p align="center"><i>Live Science</i> chair: Jesper Boesen</p> <p>Sustainable Development, Environment and Open Tools in School <i>Beatriz Padín & Elena Poncela</i></p> <p>Core Organisational Structures for Sustainable Implementation of Open Schooling in Science Education: Lessons learned from the COSMOS project <i>Philippe Bastiaenssens (et al.)</i></p> <p align="center">Make It Open <i>Roey Kafri</i></p>	<p align="center"><i>Tribune</i> chair: Chrissavgi Triantafillou</p> <p>MOST: Facing the Transfer of Theory into STEM Classroom: Teacher professional development in open schooling and environmental issues <i>Ana Abril (et al.)</i></p> <p>Subject Matter Didactics for Connections between the Components of STEM <i>Hannes Stoppel</i></p> <p>Fostering learning on socio-scientific issues with escape games <i>Alice Veldkamp (et al.)</i></p>	
<p>17:30 - 18:30</p>	<p>Exclusive museum visit & materials market</p>			
<p>18:30 - 21:30</p>	<p>Dinner <i>Restaurant</i></p>			

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Friday, 12 May 2023

Coffee & tea, Interactive Poster Gallery, Materials Market <i>Auditorium & Live Science</i>					
8:30 - 9:00 Round Four (8:45) 9:00 - 10:00	Workshops (Session 4)			Paper Presentations (Session 4A)	Paper Presentations (Session 4B)
	W1 Toen <i>chair: Gultekin Cakmakci</i> 3D-Printing in Sustainability Education <i>Oliver Straser</i>	W2 Nu <i>chair: Monica Wijers</i> Co-Designing of MathCityMap Trails in In-Service Teacher Education <i>Silvia Haringová, Janka Medová & Veronika Bočková</i>	W3 Ontwerp <i>chair: Sanne Korte</i> Plastic Soup with Escape Boxes: Fostering Learning on Socio-Scientific Issues <i>Alice Veldkamp & Sanne Korte</i> <i>Note: Session starts at 8:45</i>	<i>Live Science</i> <i>chair: Josette Farrugia</i> Kazakhstani Middle and High School Girls' Attitude About STEM Career Interest <i>Nuri Balta</i> Challenging girls to engage in STEM activities in the context of an online summer school <i>Eleni Kli (et al.)</i> Let's build gender-inclusive STEM culture! <i>María Martín-Peciña (et al.)</i>	<i>Auditorium</i> <i>chair: Martin Bilek</i> Use of New Technologies for the Challenges of the Future <i>Mathias Klaus Kirf & Stephanie Eugster</i> MOST: Context-based teaching for students' sustainability consciousness <i>Hanne Valde Thu (et al.)</i> Integrated STEAM practice in Teacher Training: Get to know your Rubbish <i>María Antonia López-Luengo & Belén Palop</i>
10:10 - 11:10 Round Five	Workshops (Session 5)			Paper Presentations (Session 5A)	Paper Presentations (Session 5B)
	W1 Toen <i>chair: Josette Farrugia</i> Tipping points: Bringing mathematical modelling of an Antarctic ice shelf into the classroom <i>Joe Shimwell & Carol Davenport</i>	W2 Nu <i>chair: Gultekin Cakmakci</i> The Sustainable Educator <i>Jarla Geerts & Angelique Logtenberg-Prins</i>	W3 Ontwerp <i>chair: Monica Wijers</i> Open Maths Meets Sustainability <i>Marloes van Hoeve & Greg Alpar</i>	<i>Auditorium</i> <i>chair: Ragnhild Staberg</i> MOST-event in Norway for Primary Education <i>Rachel Cramp & Caroline Lewis-Jones</i> MOST: What Are The Skills Teachers Need To Implement Open Schooling Projects? <i>Metin Sardag (et al.)</i> Promoting teacher competencies towards sustainability conducted through STEAM interventions in IndagaSTEAM Escuela Project <i>Teresa Lupion-Cobos (et al.)</i>	<i>Live Science</i> <i>chair: Marta Romero Ariza</i> MOST: Instructions for schools on how to organise School-Community Projects <i>Lucas Weinberg & Suzanne Kapelari</i> Methods of increasing the Attractivity of the Teacher-profession through Professional-Development and Career Advice <i>Oliver Straser & Barbara Degenhart</i> A Professional Development session on Environmental socio-scientific issues and its impact on Prospective mathematics teachers' task designs <i>Katerina Bogiatzi (et al.)</i>

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<p>11:10 - 11:30</p>	<p>Coffee Break</p>
<p>11:30 - 12:30</p>	<p>Panel Discussion: How do we envision education-oriented communities to stand-up for sustainability? <i>Auditorium</i> Jesper Boesen Jönköping University, Sweden – moderator Rivka Meelis FridaysForFuture, Netherlands – student Natalia Serrano Chumilla Centro de Profesorado de Jaén, Spain – teacher Caroline Lewis-Jones Birralee International School, Norway – school leader José María Sanchís Conselleria d'Educacio de Valencia, Spain – policy maker Jiří Kulich Rýchory Centre of Environmental Education and Ethics, Czech Republic – NGO Harold Brockbernd Extinction Rebellion & Stedelijk Gymnasium Hilversum, Netherlands – teacher</p>
<p>12:30 - 12:45</p>	<p>Closure <i>Auditorium</i></p>
<p>12:45 - 13:30</p>	<p>Lunch <i>Auditorium</i></p>
	<p>End of Program</p>